

Spacial Thalassa ClimaSys



Catalogue 2021

Universal Enclosures

More than 60 years protecting your equipment

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Life Is On Schneider Electric


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Green Premium™

The Green Premium program stands for our commitment to deliver customer valued sustainable performance. It has been upgraded with recognized environmental claims and extended to cover all o ers including Products, Services and Solutions.

More than 75% of our product sales of ouer superior transparency on the material content, regulatory information and environmental impact of ourproducts:

- RoHS compliance
- REACh substance information
- Industry leading # of PEP's*
- Circularity instructions

*PEP: Product Environmental Profile (i.e. Environmental Product Declaration)

CO_2 and P&L impact through… Resource Performance

Green Premium brings improved resource e ciency throughout an asset's lifecycle. This includes e cient use of energy and natural resources, along with the minimization of CO_2 emissions.

Cost of ownership optimization through… Circular Performance

We're helping our customers optimize the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofi t, and remanufacture services.

Peace of mind through… Well-being Performance

Green Premium products are RoHS and REACh compliant. We're going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

Improved sales through… Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green buildingcertifications.

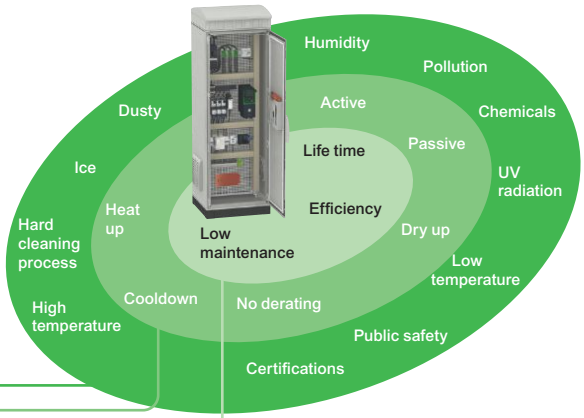
Discover what we mean by green
Check your products!

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How to define an enclosures solution?

Invariables

Switchgear and Controlgear are the cornerstone of all electrical system. Industry, infrastructure, building, energy, transport, every segment. The correct enclosure and thermal management selection is crucial to guaranty the targeted performance. Safeguards of equipment installed inside and consequently, service continuity.



The correct selection of an enclosure and thermal solution

Many influences must be considered when defining an enclosure system. They may be grouped in three groups:

- **Protection (Equipment and people)**
- **Thermal management**
- **Solution profitability**

The environment and the enclosure

The table below is only indicative and not binding. It shows, in a general concept, the optimized performance of the Universal Enclosures ranges according to de environment conditions taking into account technical and commercial criteria:

■■■ **Very recommended**
■ **Recommended**
- **Not recommended**

Environment	Enclosure material						
	Steel	Steel Heavy Duty	Stainless steel 304L	Stainless steel 316L	Stainless steel 316L Paint	Polyester	Polyester Heavy Duty
Indoor clean environment [1]	■■■	■	■	■	■	■	■
Hard cleaning process [2]	-	-	■■■	■■■	-	-	-
Outdoor (no public access)	-	■■■	■	■	■	■■■	■■■
Outdoor (public access)	-	■	■	■	■	■	■■■
Harsh chemicals	-	■	■■■	■■■	■■■	■■■	■■■
Solar radiation	-	■■■	-	■ [4]	■ [4]	■■■	■■■
Sand storm	-	-	■■■	■■■	-	■	■
Temperature > 40ºC [3]	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Temperature < 5ºC [3]	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Salty environment	-	-	-	■■■	■■■	■■■	■■■
Sea water splashes	-	-	-	■■■	■■■	■■■	■■■
Humidity > 70% [3]	-	■■■	■■■	■■■	■■■	■■■	■■■
Impact	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Vandalism	-	■■■	■	■	■	■	■■■
Burglary	-	■■■	■	■	■	■	■■■
Strong pollution	■	■■■	■■■	■■■	■■■	■■■	■■■
Vibration (Marine application)	■■■	-	■■■	■■■	■■■	■■■	-
Seismic	■■■	-	-	-	-	-	-
Electro Magnetic Interference	■■■	-	-	-	-	-	-

[1] Not considering F&B process
[2] e.g. F&B process
[3] Always using ClimaSys solutions
[4] Marine solar plants

Thermal management

Thermal management system must guaranty the temperature and humidity controlled inside the enclosure.
The correct solution must be based on a robust process starting on the environment diagnostic, going to the parameters calculations and defining the best architecture (Enclosures + Equipment installed + Thermal solution).
ClimaSys is the definitive solution based on ClimaSys DT / EffiClima / ProClima.

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Schneider Electric

Our Universal Enclosures ranges, solutions for each application

Spacial



Metal enclosures and boxes

From our small boxes to large suitable floor-standing enclosures, with the Spacial range you can find the perfect fit for your applications. Our extensive range of easy-to-use accessories helps you save time during your projects. Select between steel or stainless steel to better suit the installation environment. In our stainless steel offer you can find the optimal solution where cleanliness is required, or for highly corrosive environments.

Thalassa



Insulating enclosures

Working in difficult environments can, without the right protection, expose your installation to chemical or aggressive substances. Developed to efficiently protect it; Our Thalassa offer, from boxes to floor-standing enclosures, made in fibreglassreinforced polyester, resists in hard conditions and outdoor applications. Our Thalassa industrial boxes in ABS or polycarbonate are strong, easy to install and designed to be used in highly demanding environments.

ClimaSys



Thermal management

Preserving and keeping the right temperature inside your enclosure is vital for maximising the lifetime of your installed devices. With our ClimaSys offer you can find the right solution, be it Ventilation, Cooling or Heating, including control units for temperature, humidity and much more.

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Industry and Infrastructure Offer

A material for every environment

Steel



Indoor non-clean industrial environment
The industrial environment in mechanical plants is especially demanding as regards the protection of electric and electronic components against dust, splashing with oil and impacts. This environment therefore requires a range that is suited to the applications and easy to implement.
- Standard range, for industry.
- E.M.C. just available for WM (S3HF)
- Range of ATEX enclosures, for potentially explosive atmospheres.

Solution:
The Spacial range in steel
(wall-mounting, monobloc and suitable floor-standing enclosures).

304L - 316L stainless steel



Demanding industrial environment
Food and beverage, pharmaceutical, petrochemical and infrastructure industries are particularly demanding in terms of hygiene and resistance to corrosion. With two grades of stainless steel:
- 304L stainless steel:
  Resistance to corrosion and cleanability
  (often used in food production environments).
- 316L stainless steel, also known as "marine stainless steel":
  Very high resistance to corrosion (saline or chlorinated environment).

Solution:
The Spacial range in stainless steel
(wall-mounting, monobloc and suitable floor-standing enclosures).

Insulating polyester and plastic materials (ABS, polycarbonate)





Infrastructures and industrial environments
Outdoor infrastructures and electrical installations are exposed to direct sunlight, rain, saline mist, extreme temperatures, oil splashes, chemical and corrosive agents.zt.
- Standard range, for industry and infrastructures.

Solution:
The Thalassa range
(boxes, wall-mounting and floor-standing enclosures).

Heavy Duty materials





Severe outdoor environments, generally requested by OEMs, telecom, water treatment and transportation
Polyester Heavy Duty is suitable for outdoor public areas thanks to its multiple virtues:
- pressure and shock resistant (IEC 61439-5: 2010),
- anti-posting thanks to its special ribbed-surface door,
- insulated (ready to be Class II according to IEC 61439-1: 2011).

Steel Heavy Duty enclosures are designed for outdoor private areas:
- they are engineered to resist aggressive environments (anti-corrosion certification class C4H, ISO 12944:2018).

Solution:
The Thalassa PHD and Spacial S3HD and SFHD ranges
(wall-mounting and floor-standing).

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Selection tools

www.se.com

Our web site allows you to access all the Schneider Electric products in just two clicks with direct links to:
- A complete library of technical documents, catalogues, FAQs brochures, etc.
- Certificates.
- 2D and 3D drawings.
- Selection Guides from the e-catalogue.
- Product discovery sites.

You may also find illustrated overviews, news to which you can subscribe, a list of country contacts and more useful information.

Digital Offer

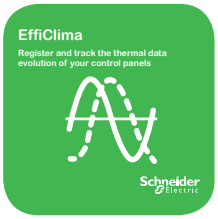
ProClima

Find the best thermal solution for your enclosure
Select and calculate your thermal management requirements, according to the environment and the electrical/electronic devices installed inside the enclosure.



EffiClima

Create a complete and accurate tracking report of thermal conditions
EffiClima software translates data into a report on temperature, humidity, and dew point. It provides security for your enclosures by monitoring and controlling the entire application environment directly.



Digital Rules

Find the accessories that suit your enclosure
The digital rules allow you to select the best components from the current product range. There will be no risk of mistake, since product and accessory selection take place automatically, saving you time and money.



Spacial.conf

Get your enclosure pre-engineered for your special needs
Spacial.conf software gives you total autonomy to configure and quote enclosures with services (cut-outs, painting, accessory mounting) in less than 3 minutes. Spacial.conf is designed for convenient, error-free, and time-saving orders.



Have a smartphone or a tablet? Scan this

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The customised solutions

Over 60 years of experience, knowledge and expertise to have the best enclosure solution that meets your needs.

Two offer levels to cover your different requirements

Configured:

the enriched standard offer

Feasibility automatically guaranteed by the configurator software Spacial.conf, which gives you autonomy and flexibility to quickly define your customized enclosure.

Delivery date information.

Specific:

the co-developed offer

Special dimensions, accessories and logistic needs.
You participate to the whole development process of your "Tailor-made" solution.

According to co-developed specifications.

	Steel	configured for Stailes steel boxes	Insulating material
Boxes	● ○	○	● ○
Wall-mounting	● ○	● ○	● ○
Compact floor-standing	● ○	● ○	● ○
Modular floor-standing	● ○	● ○	● ○

● Configured offers

○ Specific offers

Time saving

Delivered with cut-outs and painting:
no waste of time

Logistics

Flexible management of your logistic option (scheduled delivery service for on-going orders), Special packaging

Installation simplified

Enclosures delivered with cut-outs:
you don't need special tools

Ergonomic design

Customized project dedicate to your personal concern

Life time increased

Cut-outs done before painting guarantees better anti-corrosion/ sealing, Painting service for better protection

Quality improved

No burrs on edges of cut-outs, Guaranteed machining tolerances

Aesthetics

Large choice of colours, External surfaces with no scratches

Higher performances

Adapted thermal management, Upgraded stainless steel type



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Steel industrial boxes

Metallic junction boxes SDB IP55, low cover models

External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Internal dimensions (mm)			Plain mounting plate	Weight (kg)
Height (A)	Width (B)	Depth (C)	References	References	Height (A)	Width (B)	D	E	F	References	
85	85	49	**NSYDBN88**	**NSYDB88M**	1 n° 1	1 n° 1	58	58	-		0.18
105	105	49	**NSYDBN1010**	**NSYDB1010M**	2 n° 1	1 n° 1	76	76	-		0.25
155	105	61	**NSYDBN1510**	**NSYDB1510M**	3 n° 1	1 n° 1	124	74	56	**NSYPMD1510**	0.38
206	156	83	**NSYDBN2015**	**NSYDB2015M**	3 n° 2	2 n° 2	172	122	78	**NSYPMD2015**	1.00
256	206	93	**NSYDBN2520**	-	-	-	220	170	88	**NSYPMD2520**	1.5
307	257	116	**NSYDBN3025**	-	-	-	268	218	110	**NSYPMD3025**	3.3

Metallic modular boxes

External dimensions (mm)			SBM
Height	Width	Depth	References
150	150	80	**NSYSBM15158**
150	150	120	**NSYSBM151512**
150	200	80	**NSYSBM15208**
150	200	120	**NSYSBM152012**
150	300	80	**NSYSBM15308**
150	300	120	**NSYSBM153012**
150	400	80	**NSYSBM15408**
150	400	120	**NSYSBM154012**
200	200	80	**NSYSBM20208**
200	200	120	**NSYSBM202012**
200	300	80	**NSYSBM20308**
200	300	120	**NSYSBM203012**
200	400	80	**NSYSBM20408**
200	400	120	**NSYSBM204012**
200	500	80	**NSYSBM20508**
200	500	120	**NSYSBM205012**
200	600	80	**NSYSBM20608**
200	600	120	**NSYSBM206012**
200	800	120	**NSYSBM208012**
300	300	120	**NSYSBM303012**
300	400	120	**NSYSBM304012**
300	500	120	**NSYSBM305012**
300	600	120	**NSYSBM306012**
300	800	120	**NSYSBM308012**
400	400	120	**NSYSBM404012**
400	500	120	**NSYSBM405012**
400	600	120	**NSYSBM406012**
400	800	120	**NSYSBM408012**

Accessories and mounting plates for metallic modular boxes:
All informations about accessories and mounting plate on page 38

Spacial SBX Flat boxes

Dimensions (mm)			SBX	
Height	Width	Depth	References	
150	150	80	**NSYSBX15158**	New
150	300	80	**NSYSBX15308**	New
200	200	80	**NSYSBX20208**	New
200	300	80	**NSYSBX20308**	New
200	400	120	**NSYSBX204012**	New
300	300	120	**NSYSBX303012**	New

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Insulating industrial boxes

Universal boxes with IP66

Overall external dimensions			Overall internal dimensions							Universal boxes with IP66 ABS IP66 IK07		Universal boxes with IP66 PC-UL IP66 IK08	
										 Opaque cover	 Made of polycarbonate		 Transparent cover
Height (mm)	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Depth (mm)	Body (mm)	Cover (mm)	Minor pack.	Cover screw	References	References	References	References
74	74	54	65	65	47	37	10	5	Metal	**NSYTBS775**	-	**NSYTBP775**	-
89	89	54	80	80	47	37	10	5	Metal	**NSYTBS885**	-	**NSYTBP885**	-
116	74	62	105	65	55	45	10	5	Metal	**NSYTBS1176**	-	**NSYTBP1176**	-
116	74	94	105	65	85	45	40	3	Metal	**NSYTBS1179H**	-	-	-
116	116	62	105	105	55	45	10	5	Plastic	**NSYTBS11116**	-	**NSYTBP11116**	-
138	116	133	105	105	125	45	80	2	Plastic	**NSYTBS111113H**	-	-	-
164	93	72	125	80	65	45	20	2	Plastic	**NSYTBS1397**	**NSYTBS1397T**	**NSYTBP1397**	**NSYTBP1397T**
192	121	87	150	105	80	60	20	2	Plastic	**NSYTBS16128**	**NSYTBS16128T**	**NSYTBP16128**	**NSYTBP16128T**
192	121	87	175	105	80	60	20	2	Plastic	**NSYTBS19128**	**NSYTBS19128T**	**NSYTBP19128**	**NSYTBP19128T**
192	121	105	175	105	100	60	40	2	Plastic	**NSYTBS191210H**	**NSYTBS191210HT**	**NSYTBP191210H**	**NSYTBP191210HT**
192	164	87	175	150	80	60	20	1	Plastic	**NSYTBS19168**	**NSYTBS19168T**	**NSYTBP19168**	**NSYTBP19168T**
192	164	105	175	150	100	60	40	1	Plastic	**NSYTBS191610H**	**NSYTBS191610HT**	**NSYTBP191610H**	**NSYTBP191610HT**
241	194	87	225	175	80	60	20	1	Plastic	**NSYTBS24198**	**NSYTBS24198T**	**NSYTBP24198**	**NSYTBP24198T**
241	194	107	225	175	100	80	20	1	Plastic	**NSYTBS241910**	**NSYTBS241910T**	**NSYTBP241910**	**NSYTBP241910T**
241	194	107	225	175	100	60	40	1	Plastic	**NSYTBS241910H**	**NSYTBS241910HT**	**NSYTBP241910H**	**NSYTBP241910HT**
241	194	127	225	175	120	80	40	1	Plastic	**NSYTBS241912H**	**NSYTBS241912HT**	**NSYTBP241912H**	**NSYTBP241912HT**
291	241	88	275	225	80	60	20	1	Plastic	**NSYTBS29248**	**NSYTBS29248T**	**NSYTBP29248**	**NSYTBP29248T**
291	241	128	275	225	120	100	20	1	Plastic	**NSYTBS292412**	**NSYTBS292412T**	**NSYTBP292412**	**NSYTBP292412T**
291	241	128	275	225	120	60	60	1	Plastic	**NSYTBS292412H**	**NSYTBS292412HT**	**NSYTBP292412H**	**NSYTBP292412HT**
291	241	168	275	225	160	100	60	1	Plastic	**NSYTBS292416H**	**NSYTBS292416HT**	**NSYTBP292416H**	**NSYTBP292416HT**
341	291	128	325	275	120	100	20	1	Plastic	**NSYTBS342912**	**NSYTBS342912T**	**NSYTBP342912**	**NSYTBP342912T**
341	291	168	325	275	160	100	60	1	Plastic	**NSYTBS342916H**	**NSYTBS342916HT**	**NSYTBP342916H**	**NSYTBP342916HT**

Accessories and mounting plates for universal boxes with IP66:
All informations about accessories and mounting plate on page 152

Universal boxes with IP66

Dimensions			Complete box		
			  Transparent cover	  Opaque cover	 Polyester cover
Height (mm)	Width (mm)	Depth (mm)	References	References	References
180	270	180	**NSYPLS1827G**	**NSYPLSC1827G**	**NSYPLSP1827G**
270	270	180	**NSYPLS2727G**	**NSYPLSC2727G**	**NSYPLSP2727G**
270	270	230	**NSYPLS2727AG**	**NSYPLSC2727AG**	-
270	360	180	**NSYPLS2736G**	**NSYPLSC2736G**	**NSYPLSP2736G**
270	360	230	**NSYPLS2736AG**	**NSYPLSC2736AG**	-
270	540	180	**NSYPLS2754G**	**NSYPLSC2754G**	**NSYPLSP2754G**
270	540	230	**NSYPLS2754AG**	**NSYPLSC2754AG**	-
360	360	180	**NSYPLS3636G**	**NSYPLSC3636G**	**NSYPLSP3636G**
360	540	180	**NSYPLS3654G**	**NSYPLSC3654G**	**NSYPLSP3654G**
360	540	230	**NSYPLS3654AG**	**NSYPLSC3654AG**	-
360	720	230	**NSYPLS3672AG**	**NSYPLSC3672AG**	-
540	540	180	**NSYPLS5454G**	**NSYPLSC5454G**	**NSYPLSP5454G**
540	540	230	**NSYPLS5454AG**	**NSYPLSC5454AG**	-
540	720	230	**NSYPLS5472AG**	**NSYPLSC5472AG**	-

Accessories and mounting plates for modular boxes:
All informations about accessories and mounting plate on page 166

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Dimensions						Enclosures			Mounting plates			
												
Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)	Doors	IP	Weight (kg) [1]	with plain door, with mounting plate	with plain door, without mounting plate	with glazed door, with mounting plate	Plain	Silkscreened	Micro-perforated	Telequick
200	200	150	1	66	2.5	-	NSYCRN22150 [2]	-	NSYMM22	-	-	-
200	300	150	1	66	3.9	-	NSYCRN23150 [2]	-	NSYMM32	-	NSYMF32	-
250	200	150	1	66	3.2	NSYCRN252150P	NSYCRN252150	-	NSYMM2520	-	-	-
300	250	150	1	66	4.2	NSYCRN325150P	NSYCRN325150	NSYCRN325150T	NSYMM3025	-	-	NSYMR3025
300	250	200	1	66	4.9	NSYCRN325200P	NSYCRN325200	NSYCRN325200T	NSYMM3025	-	-	NSYMR3025
300	300	150	1	66	5.0	NSYCRN33150P	NSYCRN33150	NSYCRN33150T	NSYMM33	-	NSYMF33	NSYMR33
300	300	200	1	66	6.0	NSYCRN33200P	NSYCRN33200	NSYCRN33200T	NSYMM33	-	NSYMF33	NSYMR33
300	400	200	1	66	6.4	-	NSYCRN34200	NSYCRN34200T	NSYMM43	NSYMS43	NSYMF43	NSYMR34
300	450	150	1	66	6.7	-	NSYCRN345150	-	NSYMM3045	-	-	-
400	300	150	1	66	6.0	NSYCRN43150P	NSYCRN43150	NSYCRN43150T	NSYMM43	NSYMS43	NSYMF43	NSYMR43
400	300	200	1	66	6.8	NSYCRN43200P	NSYCRN43200	NSYCRN43200T	NSYMM43	NSYMS43	NSYMF43	NSYMR43
400	400	200	1	66	8.0	NSYCRN44200P	NSYCRN44200	NSYCRN44200T	NSYMM44	NSYMS44	NSYMF44	NSYMR44
400	600	250	1	66	10.0	NSYCRN46250P	NSYCRN46250	NSYCRN46250T	NSYMM64	NSYMS64	NSYMF64	NSYMR46
400	600	300	1	66	11.2	-	NSYCRN46300	NSYCRN46300T	NSYMM64	NSYMS64	NSYMF64	NSYMR46
500	400	150	1	66	8.7	NSYCRN54150P	NSYCRN54150	NSYCRN54150T	NSYMM54	NSYMS54	NSYMF54	NSYMR54
500	400	200	1	66	9.8	NSYCRN54200P	NSYCRN54200	NSYCRN54200T	NSYMM54	NSYMS54	NSYMF54	NSYMR54
500	400	250	1	66	11.0	NSYCRN54250P	NSYCRN54250	NSYCRN54250T	NSYMM54	NSYMS54	NSYMF54	NSYMR54
500	500	250	1	66	12.8	NSYCRN55250P	NSYCRN55250	NSYCRN55250T	NSYMM55	NSYMS55	NSYMF55	NSYMR55
600	400	150	1	66	9.3	NSYCRN64150P	NSYCRN64150	NSYCRN64150T	NSYMM64	NSYMS64	NSYMF64	NSYMR64
600	400	200	1	66	10.8	NSYCRN64200P	NSYCRN64200	NSYCRN64200T	NSYMM64	NSYMS64	NSYMF64	NSYMR64
600	400	250	1	66	12.3	NSYCRN64250P	NSYCRN64250	NSYCRN64250T	NSYMM64	NSYMS64	NSYMF64	NSYMR64
600	500	150	1	66	11.3	NSYCRN65150P	NSYCRN65150	NSYCRN65150T	NSYMM65	-	NSYMF65	NSYMR65
600	500	200	1	66	14.3	NSYCRN65200P	NSYCRN65200	NSYCRN65200T	NSYMM65	-	NSYMF65	NSYMR65
600	500	250	1	66	16.2	NSYCRN65250P	NSYCRN65250	NSYCRN65250T	NSYMM65	-	NSYMF65	NSYMR65
600	600	200	1	66	16.3	NSYCRN66200P	NSYCRN66200	NSYCRN66200T	NSYMM66	NSYMS66	NSYMF66	NSYMR66
600	600	250	1	66	18.2	NSYCRN66250P	NSYCRN66250	NSYCRN66250T	NSYMM66	NSYMS66	NSYMF66	NSYMR66
600	600	300	1	66	19.8	NSYCRN66300P	NSYCRN66300	NSYCRN66300T	NSYMM66	NSYMS66	NSYMF66	NSYMR66
600	800	300	1	66	26.0	-	NSYCRN68300	NSYCRN68300T	NSYMM86	NSYMS86	NSYMF86	NSYMR68
700	500	200	1	66	17.3	NSYCRN75200P	NSYCRN75200	NSYCRN75200T	NSYMM75	NSYMS75	NSYMF75	NSYMR75
700	500	250	1	66	19.3	NSYCRN75250P	NSYCRN75250	NSYCRN75250T	NSYMM75	NSYMS75	NSYMF75	NSYMR75
800	600	200	1	66	21.8	NSYCRN86200P	NSYCRN86200	NSYCRN86200T	NSYMM86	NSYMS86	NSYMF86	NSYMR86
800	600	250	1	66	24.8	NSYCRN86250P	NSYCRN86250	NSYCRN86250T	NSYMM86	NSYMS86	NSYMF86	NSYMR86
800	600	300	1	66	26.3	NSYCRN86300P	NSYCRN86300	NSYCRN86300T	NSYMM86	NSYMS86	NSYMF86	NSYMR86
800	800	200	1	66	29.5	NSYCRN88200P	NSYCRN88200	NSYCRN88200T	NSYMM88	-	NSYMF88	NSYMR88
800	800	300	1	66	32.5	NSYCRN88300P	NSYCRN88300	NSYCRN88300T	NSYMM88	-	NSYMF88	NSYMR88
1000	600	250	1	66	28.4	NSYCRN106250P	NSYCRN106250	NSYCRN106250T	NSYMM106	-	NSYMF106	NSYMR106
1000	600	300	1	66	30.6	NSYCRN106300P	NSYCRN106300	NSYCRN106300T	NSYMM106	-	NSYMF106	NSYMR106
1000	800	250	1	66	34.5	NSYCRN108250P	NSYCRN108250	NSYCRN108250T	NSYMM108	-	NSYMF108	NSYMR108
1000	800	300	1	66	37.4	NSYCRN108300P	NSYCRN108300	NSYCRN108300T	NSYMM108	-	NSYMF108	NSYMR108

[1] Enclosure without mounting plate.
[2] Two cable gland plates, one on the top, one on the bottom.

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				Cable entries			
							
	Bakelite	DIN rail chassis	Aluminium vertical rails [3]	Fig.	Type of cable entry	Cable gland plate standard	Cable gland plate insulated
	-	-	-	1	0	NSYTLCRNO	-
	NSYMB32	-	-	1	B	NSYTLCRNB	-
	-	-	-	1	0	NSYTLCRNO	-
	NSYMB3025	-	NSYMDVR3	1	A	NSYTLCRNA	NSYTSACRNA
	NSYMB3025	-	NSYMDVR3	1	A	NSYTLCRNA	NSYTSACRNA
	NSYMB33	NSYMD33	NSYMDVR3	1	B	NSYTLCRNB	NSYTSACRNB
	NSYMB33	NSYMD33	NSYMDVR3	1	B	NSYTLCRNB	NSYTSACRNB
	NSYMB43	-	NSYMDVR3	1	C	NSYTLCRNC	NSYTSACRNC
	NSYMB43	-	NSYMDVR3	1	B	NSYTLCRNB	NSYTSACRNB
	NSYMB43	NSYMD43	NSYMDVR4	1	B	NSYTLCRNB	NSYTSACRNB
	NSYMB43	NSYMD43	NSYMDVR4	1	B	NSYTLCRNB	NSYTSACRNB
	-	-	NSYMDVR4	1	C	NSYTLCRNC	NSYTSACRNC
	NSYMB64	-	NSYMDVR4	1	D	NSYTLCRND	NSYTSACRND
	NSYMB64	-	NSYMDVR4	1	D	NSYTLCRND	NSYTSACRND
	NSYMB54	NSYMD54	NSYMDVR5	2	B	NSYTLCRNB	NSYTSACRNB
	NSYMB54	NSYMD54	NSYMDVR5	2	C	NSYTLCRNC	NSYTSACRNC
	NSYMB54	NSYMD54	NSYMDVR5	2	C	NSYTLCRNC	NSYTSACRNC
	-	-	NSYMDVR5	2	D	NSYTLCRND	NSYTSACRND
	NSYMB64	NSYMD64	NSYMDVR6	2	B	NSYTLCRNB	NSYTSACRNB
	NSYMB64	NSYMD64	NSYMDVR6	2	C	NSYTLCRNC	NSYTSACRNC
	NSYMB64	NSYMD64	NSYMDVR6	2	C	NSYTLCRNC	NSYTSACRNC
	NSYMB65	-	NSYMDVR6	2	B	NSYTLCRNB	NSYTSACRNB
	NSYMB65	-	NSYMDVR6	2	D	NSYTLCRND	NSYTSACRND
	NSYMB65	-	NSYMDVR6	2	D	NSYTLCRND	NSYTSACRND
	-	NSYMD66	NSYMDVR6	2	D	NSYTLCRND	NSYTSACRND
	-	NSYMD66	NSYMDVR6	2	D	NSYTLCRND	NSYTSACRND
	-	NSYMD66	NSYMDVR6	2	D	NSYTLCRND	NSYTSACRND
	-	-	NSYMDVR6	2	E	NSYTLCRNC [4]	NSYTSACRNC
	NSYMB75	NSYMD75	NSYMDVR7	2	D	NSYTLCRND	NSYTSACRND
	NSYMB75	NSYMD75	NSYMDVR7	2	D	NSYTLCRND	NSYTSACRND
	NSYMB86	NSYMD86	NSYMDVR8	2	D	NSYTLCRND	NSYTSACRND
	NSYMB86	NSYMD86	NSYMDVR8	2	D	NSYTLCRND	NSYTSACRND
	NSYMB86	NSYMD86	NSYMDVR8	2	D	NSYTLCRND	NSYTSACRND
	-	-	NSYMDVR8	2	E	NSYTLCRNC [4]	NSYTSACRNC [5]
	-	-	NSYMDVR8	2	E	NSYTLCRNC [4]	NSYTSACRNC [5]
	NSYMB106	-	NSYMDVR10	2	D	NSYTLCRND	NSYTSACRND
	NSYMB106	-	NSYMDVR10	2	D	NSYTLCRND	NSYTSACRND
	NSYMB108	NSYMD108	NSYMDVR10	2	E	NSYTLCRNC [4]	NSYTSACRNC [5]
	NSYMB108	NSYMD108	NSYMDVR10	2	E	NSYTLCRNC [4]	NSYTSACRNC [5]

[3] Order **NSYAMCSF**, **NSYMDVR12** in steel.
[4] With two holes.
[5] For flange openings type E, two **NSYTSACRNC** are required.

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Applicative and customised solutions

					Basic enclosures Empty application enclosures		Basic enclosures 19" enclosure with glazed door (Plain door, please consult us.)					
												
Dimensions			Doors	IP	S3DB terminal enclosures	S3DM modular enclosures with glazed door	VDM steel enclosures with 19" swing rack	No. of U	1-body 19" fixed rack	No. of U	2 parts with 19" fixed rack	No. of U
Height (mm)	Width (mm)	Depth (mm)										
200	300	150	1	66	-	-	-	-	-	-	-	-
250	300	150	1	66	**NSYS3DB25315**	-	-	-	-	-	-	-
250	400	150	1	66	**NSYS3DB25415**	-	-	-	-	-	-	-
250	500	150	1	66	**NSYS3DB25515**	-	-	-	-	-	-	-
300	300	150	1	66	**NSYS3DB3315**	-	-	-	-	-	-	-
300	300	170	1	66	-	-	-	-	-	-	-	-
300	400	150	1	66	**NSYS3DB3415**	-	-	-	-	-	-	-
300	400	170	1	66	-	-	-	-	-	-	-	-
300	500	150	1	66	**NSYS3DB3515**	-	-	-	-	-	-	-
300	500	200	1	66	-	-	-	-	-	-	-	-
300	600	150	1	66	**NSYS3DB3615**	-	-	-	-	-	-	-
300	600	400	1	66	-	-	**NSYVDM4U4P**	4	**NSYVDM5U4F**	5	**NSYVD2M5U4**	5
300	600	500	1	66	-	-	-	-	-	-	**NSYVD2M5U5**	5
400	300	150	1	66	**NSYS3DB4315**	**NSYS3DM4315T**	-	-	-	-	-	-
400	300	170	1	66	-	-	-	-	-	-	-	-
400	600	400	1	66	-	-	**NSYVDM7U4P**	7	**NSYVDM8U4F**	8	**NSYVD2M8U4**	8
400	600	500	1	66	-	-	-	-	-	-	**NSYVD2M8U5**	8
400	800	150	1	66	**NSYS3DB4815**	-	-	-	-	-	-	-
500	400	150	1	66	**NSYS3DB5415**	**NSYS3DM5415T**	-	-	-	-	-	-
500	600	400	1	66	-	-	**NSYVDM9U4P**	9	**NSYVDM10U4F**	10	**NSYVD2M10U4**	10
500	600	500	1	66	-	-	-	-	-	-	**NSYVD2M10U5**	10
600	400	150	1	66	**NSYS3DB6415**	**NSYS3DM6415T**	-	-	-	-	-	-
600	600	150	1	66	-	**NSYS3DM6615T**	-	-	-	-	-	-
700	500	150	1	66	-	-	-	-	-	-	-	-
700	500	150	1	66	-	**NSYS3DM7515T**	-	-	-	-	-	-
700	600	400	1	66	-	-	**NSYVDM13U4P**	13	**NSYVDM14U4F**	14	**NSYVD2M14U4**	14
700	600	500	1	66	-	-	-	-	-	-	**NSYVD2M14U5**	14
800	600	150	1	66	-	-	-	-	-	-	-	-
800	600	150	1	66	-	**NSYS3DM8615T**	-	-	-	-	-	-
800	600	400	1	66	-	-	**NSYVDM16U4P**	16	**NSYVDM17U4F**	17	**NSYVD2M17U4**	17
800	600	500	1	66	-	-	-	-	-	-	**NSYVD2M17U5**	17
1000	600	150	1	66	-	**NSYS3DM10615T**	-	-	-	-	-	-
1000	800	150	1	66	-	**NSYS3DM10815T**	-	-	-	-	-	-
Details					see page 317	see page 320	see page 443		see page 443		see page 443	

Wall fixing lugs: Page 55
Steel: **NSYAEFPFSC**
Stainless steel: **NSYAEFPFXSC**

Reinforcement for heavy loads: Page 55
NSYAEFAHLBSC
Locking accessories: Page 61

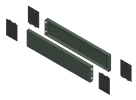
Door accessories: Page 290
Clip-on nuts: Page 260
Self-tapping screw: NSYS13M5HS / Page 261

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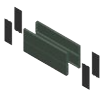
Accessories Electricitydistribution		Accessories Automatism			
					
Modular mounting chassis (metallic)	No. of modul	DIN rail support and DIN rail	Plain mounting plate	Telequick mounting plate	Aluminium vertical rails
-	-	NSYAMRD2030	NSYMM32	-	-
-	-	NSYAMRD2530	NSYMM3025	-	-
-	-	NSYAMRD2540	NSYMM2540	-	-
-	-	NSYAMRD2550	NSYMM2550	-	-
-	-	NSYAMRD3030	NSYMM33	NSYMR33	NSYMDVR3
-	-	NSYAMRD3030	NSYMM33	NSYMR33	-
-	-	NSYAMRD3040	NSYMM43	NSYMR34	NSYMDVR3
-	-	NSYAMRD3040	NSYMM43	NSYMR34	-
-	-	NSYAMRD3050	NSYMM53	-	NSYMDVR3
-	-	NSYAMRD3050	NSYMM53	-	NSYMDVR3
-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
NSYDLM24	24	NSYAMRD43	NSYMM43	NSYMR43	NSYMDVR4
-	-	NSYAMRD43	NSYMM43	NSYMR43	-
-	-	-	NSYMM64	NSYMR46	NSYMDVR4
-	-	NSYAMRD48	NSYMM64	NSYMR46	NSYMDVR4
-	-	NSYAMRD54	NSYMM48	-	NSYMDVR4
NSYDLM48	48	-	NSYMM54	NSYMR54	NSYMDVR5
-	-	-	NSYMM65	-	NSYMDVR5
-	-	-	NSYMM65	-	NSYMDVR5
NSYDLM48P	48	NSYAMRD64	NSYMM64	NSYMR64	NSYMDVR6
NSYDLM84P	84	-	NSYMM66	NSYMR66	NSYMDVR6
NSYDLM66	66	-	NSYMM75	NSYMR75	NSYMDVR7
NSYDLM88	88	-	NSYMM75	NSYMR75	NSYMDVR7
-	-	-	NSYMM76	NSYMR76	NSYMDVR7
-	-	-	NSYMM76	NSYMR76	NSYMDVR7
NSYDLM84	84	-	NSYMM86	NSYMR86	NSYMDVR8
NSYDLM112	112	-	NSYMM86	NSYMR86	NSYMDVR8
-	-	-	NSYMM86	NSYMR86	NSYMDVR8
-	-	-	NSYMM86	NSYMR86	NSYMDVR8
NSYDLM168	168	-	NSYMM106	NSYMR106	NSYMDVR10
NSYDLM240	234	-	NSYMM108	NSYMR108	NSYMDVR10
see page 321			see page 230	see page 230	see page 234

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SM Steel floor-standing enclosures

Dimensions				Enclosures			Plinth (H 100 mm)	
								
Height (mm)	Width (mm)	Depth (mm)	Doors	Plain door, without mounting plate	Plain door, with mounting plate	Transparent door, without mounting plate	Front kit (corners + front panels)	Side panels, 2 u.
1200	800	300	1	NSYSM12830	NSYSM12830P	-	NSYSPF8100	NSYSPS3100
1200	1000	300	2	NSYSM1210302D	NSYSM1210302DP	-	NSYSPF10100	NSYSPS3100
1200	1200	400	2	NSYSM1212402D	NSYSM1212402DP	-	NSYSPF12100	NSYSPS4100
1400	600	300	1	NSYSM14630	NSYSM14630P	-	NSYSPF6100	NSYSPS3100
1400	600	400	1	NSYSM14640	NSYSM14640P	-	NSYSPF6100	NSYSPS4100
1400	800	300	1	NSYSM14830	NSYSM14830P	-	NSYSPF8100	NSYSPS3100
1400	800	400	1	NSYSM14840	NSYSM14840P	NSYSM14840T	NSYSPF8100	NSYSPS4100
1400	1000	400	2	NSYSM1410402D	NSYSM1410402DP	-	NSYSPF10100	NSYSPS4100
1400	1200	400	2	NSYSM1412402D	NSYSM1412402DP	-	NSYSPF12100	NSYSPS4100
1600	600	300	1	NSYSM16630	NSYSM16630P	-	NSYSPF6100	NSYSPS3100
1600	600	400	1	NSYSM16640	NSYSM16640P	NSYSM16640T	NSYSPF6100	NSYSPS4100
1600	800	300	1	NSYSM16830	NSYSM16830P	NSYSM16830T	NSYSPF8100	NSYSPS3100
1600	800	400	1	NSYSM16840	NSYSM16840P	NSYSM16840T	NSYSPF8100	NSYSPS4100
1600	1000	300	2	NSYSM1610302D	NSYSM1610302DP	-	NSYSPF10100	NSYSPS3100
1600	1000	400	2	NSYSM1610402D	NSYSM1610402DP	-	NSYSPF10100	NSYSPS4100
1600	1200	300	2	NSYSM1612302D	NSYSM1612302DP	-	NSYSPF12100	NSYSPS3100
1600	1200	400	2	NSYSM1612402D	NSYSM1612402DP	-	NSYSPF12100	NSYSPS4100
1800	600	300	1	NSYSM18630	NSYSM18630P	-	NSYSPF6100	NSYSPS3100
1800	600	400	1	NSYSM18640	NSYSM18640P	NSYSM18640T	NSYSPF6100	NSYSPS4100
1800	600	500	1	NSYSM18650	NSYSM18650P	-	NSYSPF6100	NSYSPS5100
1800	800	300	1	NSYSM18830	NSYSM18830P	NSYSM18830T	NSYSPF8100	NSYSPS3100
1800	800	400	1	NSYSM18840	NSYSM18840P	NSYSM18840T	NSYSPF8100	NSYSPS4100
1800	800	500	1	NSYSM18850	NSYSM18850P	NSYSM18850T	NSYSPF8100	NSYSPS5100
1800	800	600	1	NSYSM18860	NSYSM18860P	-	NSYSPF8100	NSYSPS6100
1800	1000	400	1	NSYSM181040	NSYSM181040P	-	NSYSPF10100	NSYSPS4100
1800	1000	400	2	NSYSM1810402D	NSYSM1810402DP	-	NSYSPF10100	NSYSPS4100
1800	1000	500	2	NSYSM1810502D	NSYSM1810502DP	-	NSYSPF10100	NSYSPS5100
1800	1200	400	2	NSYSM1812402D	NSYSM1812402DP	-	NSYSPF12100	NSYSPS4100
1800	1200	500	2	NSYSM1812502D	NSYSM1812502DP	-	NSYSPF12100	NSYSPS5100
1800	1600	400	2	NSYSM1816402D	NSYSM1816402DP	-	NSYSPF16100	NSYSPS4100
1800	1600	500	2	NSYSM1816502D	NSYSM1816502DP	-	NSYSPF16100	NSYSPS5100
2000	600	300	1	NSYSM20630	NSYSM20630P	-	NSYSPF6100	NSYSPS3100
2000	600	400	1	NSYSM20640	NSYSM20640P	NSYSM20640T	NSYSPF6100	NSYSPS4100
2000	600	500	1	NSYSM20650	NSYSM20650P	-	NSYSPF6100	NSYSPS5100
2000	800	300	1	NSYSM20830	NSYSM20830P	NSYSM20830T	NSYSPF8100	NSYSPS3100
2000	800	400	1	NSYSM20840	NSYSM20840P	NSYSM20840T	NSYSPF8100	NSYSPS4100
2000	800	500	1	NSYSM20850	NSYSM20850P	NSYSM20850T	NSYSPF8100	NSYSPS5100
2000	800	600	1	NSYSM20860	NSYSM20860P	NSYSM20860T	NSYSPF8100	NSYSPS6100
2000	1000	400	2	NSYSM2010402D	NSYSM2010402DP	-	NSYSPF10100	NSYSPS4100
2000	1000	500	2	NSYSM2010502D	NSYSM2010502DP	-	NSYSPF10100	NSYSPS5100
2000	1200	400	2	NSYSM2012402D	NSYSM2012402DP	-	NSYSPF12100	NSYSPS4100
2000	1200	500	2	NSYSM2012502D	NSYSM2012502DP	-	NSYSPF12100	NSYSPS5100
2000	1200	600	2	NSYSM2012602D	NSYSM2012602DP	-	NSYSPF12100	NSYSPS6100
2000	1600	400	2	NSYSM2016402D	NSYSM2016402DP	-	NSYSPF16100	NSYSPS4100
2000	1600	500	2	NSYSM2016502D	NSYSM2016502DP	-	NSYSPF16100	NSYSPS5100
2000	1600	600	2	NSYSM2016602D	NSYSM2016602DP	-	NSYSPF16100	NSYSPS6100

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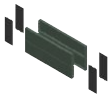
Plinth (H 200 mm)		Inner door	Mounting plate	Vertical uprights		19" swing rack	
							
Front kit (corners + front panels)	Side panels, 4 u.	Plain door	Galvanized	Standard	Technical	Off-centre	Centred
NSYSPF8200	NSYSPS3200	-	NSYMP128	-	NSYTVR12	-	-
NSYSPF10200	NSYSPS3200	-	NSYMP1210	-	NSYTVR12	-	-
NSYSPF12200	NSYSPS4200	-	NSYMP1212	-	NSYTVR12	-	-
NSYSPF6200	NSYSPS3200	-	NSYMP146	-	NSYTVR14	-	-
NSYSPF6200	NSYSPS4200	-	NSYMP146	-	NSYTVR14	-	-
NSYSPF8200	NSYSPS3200	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
NSYSPF8200	NSYSPS4200	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
NSYSPF10200	NSYSPS4200	-	NSYMP1410	-	NSYTVR14	-	-
NSYSPF12200	NSYSPS4200	-	NSYMP1412	-	NSYTVR14	-	-
NSYSPF6200	NSYSPS3200	NSYID166	NSYMP166	-	NSYTVR16	-	-
NSYSPF6200	NSYSPS4200	NSYID166	NSYMP166	-	NSYTVR16	-	-
NSYSPF8200	NSYSPS3200	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
NSYSPF8200	NSYSPS4200	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
NSYSPF10200	NSYSPS3200	-	NSYMP1610	-	NSYTVR16	-	-
NSYSPF10200	NSYSPS4200	-	NSYMP1610	-	NSYTVR16	-	-
NSYSPF12200	NSYSPS3200	-	NSYMP1612	-	NSYTVR16	-	-
NSYSPF12200	NSYSPS4200	-	NSYMP1612	-	NSYTVR16	-	-
NSYSPF6200	NSYSPS3200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
NSYSPF6200	NSYSPS4200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
NSYSPF6200	NSYSPS5200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
NSYSPF8200	NSYSPS3200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
NSYSPF8200	NSYSPS4200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
NSYSPF8200	NSYSPS5200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
NSYSPF8200	NSYSPS6200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
NSYSPF10200	NSYSPS4200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
NSYSPF10200	NSYSPS4200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
NSYSPF10200	NSYSPS5200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
NSYSPF12200	NSYSPS4200	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
NSYSPF12200	NSYSPS5200	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
NSYSPF16200	NSYSPS4200	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
NSYSPF16200	NSYSPS5200	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
NSYSPF6200	NSYSPS3200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
NSYSPF6200	NSYSPS4200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
NSYSPF6200	NSYSPS5200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
NSYSPF8200	NSYSPS3200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
NSYSPF8200	NSYSPS4200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
NSYSPF8200	NSYSPS5200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
NSYSPF8200	NSYSPS6200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
NSYSPF10200	NSYSPS4200	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
NSYSPF10200	NSYSPS5200	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
NSYSPF12200	NSYSPS4200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
NSYSPF12200	NSYSPS5200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
NSYSPF12200	NSYSPS6200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
NSYSPF16200	NSYSPS4200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
NSYSPF16200	NSYSPS5200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
NSYSPF16200	NSYSPS6200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

SF Steel floor-standing enclosures

Dimensions				Enclosures			Side panels	Cable entry plates		
										
(A)	(B)	(C)								
Height (mm)	Width (mm)	Depth (mm)	Doors	Plain door, without mounting plate	Plain door, with mounting plate	Transparent door, without mounting plate	Plain	Plain	1 entry	2 entries
1200	600	400	1	NSYSF12640	NSYSF12640P	-	NSY2SP124	NSYEC64	NSYEC641	-
1200	600	600	1	NSYSF12660	NSYSF12660P	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662
1200	800	400	1	NSYSF12840	NSYSF12840P	-	NSY2SP124	NSYEC84	NSYEC841	-
1200	800	600	1	NSYSF12860	NSYSF12860P	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862
1400	600	400	1	NSYSF14640	NSYSF14640P	-	NSY2SP144	NSYEC64	NSYEC641	-
1400	800	400	1	NSYSF14840	NSYSF14840P	-	NSY2SP144	NSYEC84	NSYEC841	-
1600	600	600	1	NSYSF16660	NSYSF16660P	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662
1600	600	800	1	NSYSF16680	NSYSF16680P	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682
1600	800	600	1	NSYSF16860	NSYSF16860P	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862
1600	800	800	1	NSYSF16880	NSYSF16880P	-	NSY2SP168	NSYEC88	NSYEC881	NSYEC882
1800	400	400	1	NSYSF18440	-	-	NSY2SP184	NSYEC44	NSYEC441	-
1800	400	500	1	NSYSF18450	-	-	NSY2SP185	NSYEC45	NSYEC451	-
1800	400	600	1	NSYSF18460	-	-	NSY2SP186	-	NSYEC461	-
1800	600	400	1	NSYSF18640	NSYSF18640P	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-
1800	600	500	1	NSYSF18650	NSYSF18650P	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-
1800	600	600	1	NSYSF18660	NSYSF18660P	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662
1800	600	800	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682
1800	800	400	1	NSYSF18840	NSYSF18840P	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-
1800	800	500	1	NSYSF18850	NSYSF18850P	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-
1800	800	600	1	NSYSF18860	NSYSF18860P	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
1800	800	600	2	NSYSF188602D	NSYSF188602DP	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
1800	1000	400	1	NSYSF181040	NSYSF181040P	-	NSY2SP184	NSYEC104	NSYEC1041	-
1800	1000	400	2	NSYSF1810402D	NSYSF1810402DP	-	NSY2SP184	NSYEC104	NSYEC1041	-
1800	1000	500	1	NSYSF181050	NSYSF181050P	-	NSY2SP185	NSYEC105	NSYEC1051	-
1800	1000	600	1	NSYSF181060	NSYSF181060P	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
1800	1000	600	2	NSYSF1810602D	NSYSF1810602DP	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
1800	1200	400	2	NSYSF1812402D	NSYSF1812402DP	-	NSY2SP184	NSYEC124	NSYEC1241	-
1800	1200	500	2	NSYSF1812502D	NSYSF1812502DP	-	NSY2SP185	NSYEC125	NSYEC1251	-
1800	1200	600	2	NSYSF1812602D	NSYSF1812602DP	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262
2000	300	500	1	NSYSF20350	-	-	NSY2SP205	NSYEC35	NSYEC351	-
2000	300	600	1	NSYSF20360	-	-	NSY2SP206	NSYEC36	NSYEC361	-
2000	300	800	1	NSYSF20380	-	-	NSY2SP208	-	NSYEC381	-
2000	400	400	1	NSYSF20440	-	-	NSY2SP204	NSYEC44	NSYEC441	-
2000	400	500	1	NSYSF20450	-	-	NSY2SP205	NSYEC45	NSYEC451	-
2000	400	600	1	NSYSF20460	-	-	NSY2SP206	NSYEC64	NSYEC461	-
2000	400	800	1	NSYSF20480	-	-	NSY2SP208	NSYEC84	NSYEC481	-
2000	600	400	1	NSYSF20640	NSYSF20640P	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
2000	600	500	1	NSYSF20650	NSYSF20650P	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-
2000	600	600	1	NSYSF20660	NSYSF20660P	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662
2000	600	800	1	NSYSF20680	NSYSF20680P	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682
2000	800	400	1	NSYSF20840	NSYSF20840P	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-
2000	800	500	1	NSYSF20850	NSYSF20850P	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-
2000	800	600	1	NSYSF20860	NSYSF20860P	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
2000	800	600	2	NSYSF208602D	NSYSF208602DP	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
2000	800	800	1	NSYSF20880	NSYSF20880P	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882
2000	1000	400	1	NSYSF201040	NSYSF201040P	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-
2000	1000	400	2	NSYSF2010402D	NSYSF2010402DP	-	NSY2SP204	NSYEC104	NSYEC1041	-
2000	1000	500	1	NSYSF201050	NSYSF201050P	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-
2000	1000	500	2	NSYSF2010502D	NSYSF2010502DP	-	NSY2SP205	NSYEC105	NSYEC1051	-
2000	1000	600	1	NSYSF201060	NSYSF201060P	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
2000	1000	600	2	NSYSF2010602D	NSYSF2010602DP	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
2000	1000	800	1	NSYSF201080	NSYSF201080P	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082
2000	1200	400	2	NSYSF2012402D	NSYSF2012402DP	-	NSY2SP204	NSYEC124	NSYEC1241	-
2000	1200	500	2	NSYSF2012502D	NSYSF2012502DP	-	NSY2SP205	NSYEC125	NSYEC1251	-
2000	1200	600	2	NSYSF2012602D	NSYSF2012602DP	-	NSY2SP206	NSYEC126	NSYEC1261	NSYEC1262
2000	1200	800	2	NSYSF2012802D	NSYSF2012802DP	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282
2000	1600	400	2	NSYSF2016402D	NSYSF2016402DP	-	NSY2SP204	NSYEC164	NSYEC1641	-
2000	1600	500	2	NSYSF2016502D	NSYSF2016502DP	-	NSY2SP205	NSYEC165	NSYEC1651	-
2000	1600	600	2	NSYSF2016602D	NSYSF2016602DP	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662
2200	400	600	1	NSYSF22460	-	-	NSY2SP226	-	NSYEC461	-
2200	600	600	1	NSYSF22660	NSYSF22660P	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662
2200	600	800	1	NSYSF22680	NSYSF22680P	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682
2200	800	600	1	NSYSF22860	NSYSF22860P	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862
2200	800	800	1	NSYSF22880	NSYSF22880P	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882
2200	1000	600	1	NSYSF221060	NSYSF221060P	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062
2200	1200	600	2	NSYSF2212602D	NSYSF2212602DP	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262
2200	1200	800	2	NSYSF2212802D	NSYSF2212802DP	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Plinths (H 100 mm)		Plinths (H 200 mm)		Mounting plates		Vertical uprights	
							
Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.	Mounting plate	Intermediate mounting plate	Standard	Technical
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP166	NSYSIMP16	-	NSYTVR16
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP168	NSYSIMP16	-	NSYTVR16
NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP168	NSYSIMP16	-	NSYTVR16
NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	NSYMP184 New	-	NSYVR18	NSYTVR18
NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	NSYMP184 New	-	NSYVR18	NSYTVR18
NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	NSYMP184 New	-	NSYVR18	NSYTVR18
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF3100	NSYSPS5100	NSYSPF3200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
NSYSPF3100	NSYSPS8100	NSYSPF3200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	NSYMP204 New	-	NSYVR20	NSYTVR20
NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	NSYMP204 New	-	NSYVR20	NSYTVR20
NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	NSYMP204 New	-	NSYVR20	NSYTVR20
NSYSPF4100	NSYSPS8100	NSYSPF4200	NSYSPS8200	NSYMP204 New	-	NSYVR20	NSYTVR20
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS8100	NSYSPF10200	NSYSPS8200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	NSYMP224 New	-	NSYVR22	NSYTVR22
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2210	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22

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SF kit Steel floor-standing enclosures

Dimensions				Vertical uprights	Bottom frame and top frame with roof	Panels		Doors		Mounting plate	
								 (Hinges, locking bar catches and handle with 5 mm double bar insert included.)	 (Securit® glass, hinges, locking bar catches and handle with 5 mm double bar insert included.)		
(A) Height (mm)	(B) Width (mm)	(C) Depth (mm)	Doors			Rear panel	Side panel	Plain	Transparent		
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYMP126	
1200	600	500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYMP126	
1200	600	600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYMP126	
1200	600	800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYMP126	
1200	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYMP128	
1200	800	500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYMP128	
1200	800	600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYMP128	
1200	800	800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYMP128	
1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYMP146	
1400	600	500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYMP146	
1400	600	600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYMP146	
1400	600	800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYMP146	
1400	800	400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYMP148	
1400	800	500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYMP148	
1400	800	600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYMP148	
1400	800	800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYMP148	
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYMP166	
1600	600	500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYMP166	
1600	600	600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYMP166	
1600	600	800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYMP166	
1600	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYMP168	
1600	800	500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYMP168	
1600	800	600	1	NSYSFV16	NSYSFC86	NSYBP168	NSY2SP166	NSYSFD168	NSYSFD168T	NSYMP168	
1600	800	800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYMP168	
1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	NSYMP204	New
1800	400	500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	NSYMP204	New
1800	400	600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	NSYMP204	New
1800	400	800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	NSYMP204	New
1800	600	400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYMP186	
1800	600	500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYMP186	
1800	600	600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYMP186	
1800	600	800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYMP186	
1800	800	400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYMP188	
1800	800	500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYMP188	
1800	800	600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYMP188	
1800	800	600	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYMP188	
1800	800	800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYMP188	
1800	800	800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYMP188	
1800	1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYMP1810	
1800	1000	400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYMP1810	
1800	1000	500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYMP1810	
1800	1000	600	1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYMP1810	
1800	1000	600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYMP1810	
1800	1000	800	1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYMP1810	
1800	1000	800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYMP1810	
1800	1200	400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYMP1812	
1800	1200	500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYMP1812	
1800	1200	600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYMP1812	
1800	1200	800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYMP1812	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Dimensions				Vertical uprights	Bottom frame and top frame with roof	Panels		Doors		Mounting plate
								 (Hinges, locking bar catches and handle with 5 mm double bar insert included.)	 (Securit® glass, hinges, locking bar catches and handle with 5 mm double bar insert included.)	
(A) Height (mm)	(B) Width (mm)	(C) Depth (mm)	Doors			Rear panel	Side panel	Plain	Transparent	
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	-
2000	300	600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	-
2000	300	800	1	NSYSFV20	NSYSFC38	NSYBP203	NSY2SP208	NSYSFD203	-	-
2000	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	-
2000	400	500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	-
2000	400	600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	-
2000	400	800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	-
2000	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYMP206
2000	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYMP208
2000	800	800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYMP208
2000	1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYMP2010
2000	1000	500	1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	500	2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYMP2010
2000	1000	600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYMP2010
2000	1000	800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	800	2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYMP2010
2000	1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYMP2016
2000	1600	500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYMP2016
2000	1600	600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYMP2016
2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	-
2200	400	500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	-
2200	400	600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	-
2200	400	800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	-
2200	600	400	1	NSYSFV22	NSYSFC64	NSYBP226	NSY2SP224	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYMP226
2200	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYMP228
2200	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYMP2212

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

					304L stainless steel		316L stainless steel	304L stainless steel
								
External dimensions								
Height (mm)	Width (mm)	Depth (mm)	No. of locks	No. of doors	Plain door	Glazed door. The glazed door has no reinforcement.	Plain door	Canopy
300	200	150	1	1	**NSYS3X3215**	-	**NSYS3X3215H**	**NSYTX2015**
300	250	150	1	1	**NSYS3X302515**	-	**NSYS3X302515H**	**NSYTX2515**
300	300	150	1	1	**NSYS3X3315**	-	**NSYS3X3315H**	**NSYTX3015**
400	300	150	1	1	**NSYS3X4315**	-	**NSYS3X4315H**	**NSYTX3015**
400	300	200	1	1	**NSYS3X4320**	**NSYS3X4320T**	**NSYS3X4320H**	**NSYTX3020**
400	400	200	1	1	**NSYS3X4420**	-	**NSYS3X4420H**	**NSYTX4020**
400	600	200	1	1	**NSYS3X4620**	-	**NSYS3X4620H**	**NSYTX6020**
500	400	200	2	1	**NSYS3X5420**	**NSYS3X5420T**	**NSYS3X5420H**	**NSYTX4020**
600	400	200	2	1	**NSYS3X6420**	**NSYS3X6420T**	**NSYS3X6420H**	**NSYTX4020**
600	600	250	2	1	**NSYS3X6625**	-	**NSYS3X6625H**	**NSYTX6025**
600	1000	300		2	**NSYS3X601030**	-	-	-
600	1200	300	(1)	2	**NSYS3X601230**	-	-	**NSYTX12030**
700	500	250	2	1	**NSYS3X7525**	**NSYS3X7525T**	**NSYS3X7525H**	**NSYTX5025**
800	600	250	2	1	**NSYS3X8625**	**NSYS3X8625T**	**NSYS3X8625H**	**NSYTX6025**
800	800	300	2	1	**NSYS3X8830**	-	**NSYS3X8830H**	**NSYTX8030**
800	1000	300		2	**NSYS3X801030**	-	-	-
800	1200	300	(1)	2	**NSYS3X801230**	-	-	**NSYTX12030**
1000	800	300	2	1	**NSYS3X10830**	**NSYS3X10830T**	**NSYS3X10830H**	**NSYTX8030**
1000	1000	300	(1)	2	**NSYS3X101030**	-	**NSYS3X101030H**	**NSYTX10030**
1200	800	300	2	1	**NSYS3X12830**	-	**NSYS3X12830H**	**NSYTX8030**
1200	1000	300	(1)	2	**NSYS3X121030**	-	**NSYS3X121030H**	**NSYTX10030**

(1) Three-point closure system.

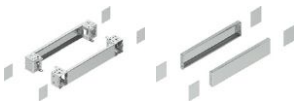
Accessories

									
External dimensions									
Height (mm)	Width (mm)	Depth (mm)	No. of modules	Mounting plate Plain	Mounting plate Silkscreened	Mounting plate Microperforated	Mounting plate Telequick	Mounting plate Modular	Step slides
300	200	150	-	**NSYMM32**	-	**NSYMF32**	**NSYMR32**	-	-
300	250	150	-	**NSYMM3025**	-	-	**NSYMR3025**	-	-
300	300	150	-	**NSYMM33**	-	**NSYMF33**	**NSYMR33**	-	-
400	300	150	24	**NSYMM43**	**NSYMS43**	**NSYMF43**	**NSYMR43**	**NSYDLM24**	-
400		200	24	**NSYMM43**	**NSYMS43**	**NSYMF43**	**NSYMR43**	**NSYDLM24**	**NSYSDCR200**
400	400	200	-	**NSYMM44**	**NSYMS44**	**NSYMF44**	**NSYMR44**	-	**NSYSDCR200**
400	600	200	-	**NSYMM64**	**NSYMS64**	**NSYMF64**	**NSYMR46**	-	**NSYSDCR200**
500	400	200	48	**NSYMM54**	**NSYMS54**	**NSYMF54**	**NSYMR54**	**NSYDLM48**	**NSYSDCR200**
600	400	200	48	**NSYMM64**	**NSYMS64**	**NSYMF64**	**NSYMR64**	**NSYDLM48P**	**NSYSDCR200**
600	600	250	84	**NSYMM66**	**NSYMS66**	**NSYMF66**	**NSYMR66**	**NSYDLM84P**	**NSYSDCR250**
600	1000	300*	-	**NSYMM106**	-	**NSYMF106**	**NSYMR106**	-	**NSYSDCR300**
600	1200	300*	-	**NSYMM126**	-	**NSYMF126**	-	-	**NSYSDCR300**
700	500	250	66	**NSYMM75**	**NSYMS75**	**NSYMF75**	**NSYMR75**	**NSYDLM66**	**NSYSDCR250**
700	500	250	88	-	-	-	-	**NSYDLM88**	-
800	600	250	84	**NSYMM86**	**NSYMS86**	**NSYMF86**	**NSYMR86**	**NSYDLM84**	**NSYSDCR250**
800	600	250	112	-	-	-	-	**NSYDLM112**	-
800	800	300	-	**NSYMM88**	-	**NSYMF88**	**NSYMR88**	-	**NSYSDCR300**
800	1000	300(1)	-	**NSYMM108**	-	**NSYMF108**	**NSYMR108**	-	**NSYSDCR300**
800	1200	300(1)	-	**NSYMM128**	-	**NSYMF128**	**NSYMR128**	-	**NSYSDCR300**
1000	800	300	234	**NSYMM108**	-	**NSYMF108**	**NSYMR108**	**NSYDLM240**	**NSYSDCR300**
1000	1000	300	-	**NSYMM1010**	-	**NSYMF1010**	**NSYMR1010**	-	**NSYSDCR300**
1200	800	300	-	**NSYMM128**	-	**NSYMF128**	**NSYMR128**	-	**NSYSDCR300**
1200	1000	300	-	**NSYMM1210**	-	**NSYMF1210**	**NSYMR1210**	-	**NSYSDCR300**

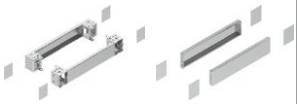
(1) Three-point closure system.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

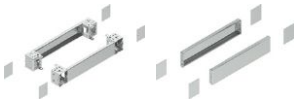
Stainless steel floor-standing enclosures

External dimensions			No. of front doors	304L stainless steel	316L stainless steel	Brushed 304L / 316L stainless steel plinth height 100 mm*		Brushed 304L / 316L stainless steel plinth height 200 mm*		Mounting plate**
						 Plinth height 100 mm (4 corners + front and back)		 Plinth height 100 mm (Set of 2 side panels)		
Height (mm)	Width (mm)	Depth (mm)		Floor-standing enclosure	Floor-standing enclosure	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	Plain
1400	1000	300	2	**NSYSMX141030**	–	**NSYSPFX10100**	**NSYSPSX3100**	**NSYSPFX10200**	**NSYSPSX3200**	**NSYMP1410**
1600	800	400	1	**NSYSMX16840**	–	**NSYSPFX8100**	**NSYSPSX4100**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYMP168**
1800	600	400	1	**NSYSMX18640**	–	–	**NSYSPSX4100**	–	**NSYSPSX4200**	**NSYMP186**
1800	800	400	1	**NSYSMX18840**	**NSYSMX18840H**	**NSYSPFX8100**	**NSYSPSX4100**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYMP188**
1800	1200	400	2	**NSYSMX181240**	**NSYSMX181240H**	**NSYSPFX12100**	**NSYSPSX4100**	**NSYSPFX12200**	**NSYSPSX4200**	**NSYMP1812**
1800	1600	400	2	**NSYSMX181640**	**NSYSMX181640H**	**NSYSPFX16100**	**NSYSPSX4100**	**NSYSPFX16200**	**NSYSPSX4200**	**NSYMP1816**
2000	800	500	1	**NSYSMX20850**	–	**NSYSPFX8100**	**NSYSPSX5100**	**NSYSPFX8200**	**NSYSPSX5200**	**NSYMP208**
2000	1000	400	2	**NSYSMX201040**	**NSYSMX201040H**	**NSYSPFX10100**	**NSYSPSX4100**	**NSYSPFX10200**	**NSYSPSX4200**	**NSYMP2010**
2000	1200	500	2	**NSYSMX201250**	**NSYSMX201250H**	**NSYSPFX12100**	**NSYSPSX5100**	**NSYSPFX12200**	**NSYSPSX5200**	**NSYMP2012**
2000	1600	600	2	**NSYSMX201660**	**NSYSMX201660H**	**NSYSPFX16100**	**NSYSPSX6100**	**NSYSPFX16200**	**NSYSPSX6200**	**NSYMP2016**

Stainless steel floor-standing enclosures

External dimensions			No. of front doors	304L stainless steel (316L stainless steel enclosures on request)			Brushed 304L stainless steel plinth height 100 mm*		Brushed 304L stainless steel plinth height 200 mm*		Mounting plate**
							 Plinth height 100 mm (4 corners + front and back)		 Plinth height 100 mm (Set of 2 side panels)		
Height (mm)	Width (mm)	Depth (mm)		Suitable enclosure	Set of 2 side panels	Coupling kit	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Side Set of 2 side panels (x2)	Plain
1800	600	400	1	**NSYSFX18640**	**NSY2SPX184**	**NSYSFBK19** + **NSYSFXJG**	**NSYSPFX6100**	**NSYSPSX4100SF**	**NSYSPFX6200**	**NSYSPSX4200SF**	**NSYMP186**
1800	800	400	1	**NSYSFX18840**	**NSY2SPX184**		**NSYSPFX8100**	**NSYSPSX4100SF**	**NSYSPFX8200**	**NSYSPSX4200SF**	**NSYMP188**
1800	1200	400	2	**NSYSFX181240**	**NSY2SPX184**		**NSYSPFX12100**	**NSYSPSX4100SF**	**NSYSPFX12200**	**NSYSPSX4200SF**	**NSYMP1812**
2000	600	500	1	**NSYSFX20650**	**NSY2SPX205**		**NSYSPFX6100**	**NSYSPSX5100SF**	**NSYSPFX6200**	**NSYSPSX5200SF**	**NSYMP206**
2000	800	400	1	**NSYSFX20840**	**NSY2SPX204**		**NSYSPFX8100**	**NSYSPSX4100SF**	**NSYSPFX8200**	**NSYSPSX4200SF**	**NSYMP208**
2000	800	600	1	**NSYSFX20860**	**NSY2SPX206**		**NSYSPFX8100**	**NSYSPSX6100SF**	**NSYSPFX8200**	**NSYSPSX6200SF**	**NSYMP208**
2000	1000	600	2	**NSYSFX201060**	**NSY2SPX206**		**NSYSPFX10100**	**NSYSPSX6100SF**	**NSYSPFX10200**	**NSYSPSX6200SF**	**NSYMP2010**
2000	1200	600	2	**NSYSFX201260**	**NSY2SPX206**		**NSYSPFX12100**	**NSYSPSX6100SF**	**NSYSPFX12200**	**NSYSPSX6200SF**	**NSYMP2012**

Stainless steel floor-standing suitable

External dimensions			No. of front doors	Stainless steel	304L stainless steel plinth, height 100 mm*		304L stainless steel plinth, height 200 mm*		Mounting plate**
					 Plinth height 100 mm (Front and rear)		 Plinth height 100 mm (Side panels)		
Height (mm)	Width (mm)	Depth (mm)		Floor-standing suitable	Front and rear	side panels	Front and rear	side panels	Plain
1000	600	500	1	**NSYSDX6**	**NSYSPFX6100**	**NSYSPSX5100**	**NSYSPFX6200**	2x **NSYSPSX5100**	**NSYPMP8560**
1000	800	500	1	**NSYSDX8**	**NSYSPFX8100**	**NSYSPSX5100**	**NSYSPFX8200**	2x **NSYSPSX5100**	**NSYPMP8580**
1000	1000	500	2	**NSYSDX10**	**NSYSPFX10100**	**NSYSPSX5100**	**NSYSPFX10200**	2x **NSYSPSX5100**	**NSYPMP85100**
1000	1200	500	2	**NSYSDX12**	**NSYSPFX12100**	**NSYSPSX5100**	**NSYSPFX12200**	2x **NSYSPSX5100**	**NSYPMP85120**

* See section on stainless steel composition accessories.
** See other mounting plates in common accessories.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester wall-mounting enclosures

Polyester wall-mounting enclosures IP66

According to Reach and RoHs & Halogen free

Class II

	ABS/PC wall-mounting enclosures		Polyester wall-mounting enclosures					
								
External dimensions			References of wall-mounting enclosures with door					
Height (mm)	Width (mm)	Depth (mm)	Plain	Transparent	Plain	Transparent	Plain	Transparent	Plain	Transparent
308	255	160	-	-	NSYPLM3025G	NSYPLM3025TG	-	-	-	-
310	215	160	NSYPLM32G	NSYPLM32TG	-	-	-	-	-	-
430	330	200	-	-	-	-	NSYPLM43G	NSYPLM43TG	NSYPLM43VG	NSYPLM43TVG
530	430	200	-	-	-	-	NSYPLM54G	NSYPLM54TG	NSYPLM54VG	NSYPLM54TVG
647	436	250	-	-	-	-	NSYPLM64G	NSYPLM64TG	NSYPLM64VG	NSYPLM64TVG
747	536	300	-	-	-	-	NSYPLM75G	NSYPLM75TG	NSYPLM75VG	NSYPLM75TVG
847	636	300	-	-	-	-	NSYPLM86G	NSYPLM86TG	NSYPLM86VG	NSYPLM86TVG
1056	852	350	-	-	-	-	NSYPLM108G	NSYPLM108TG	-	-
Details			see page 179							

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Polyester wall-mounting enclosures

Mounting accessories

	Metallic mounting plates				Insulating mounting plates		Modular distribution chassis	Step slides	Symmetrical DIN rail
									
Dimensions									
Height (mm)	Width (mm)	Depth (mm)	Plain	Silkscreened	Microperforated	Telequick	Bakelite	Polyester			
310	215	160	NSYMM32	-	-	NSYMR32	NSYMB32	NSYMPP32	-	-	NSYCS200PLM
308	255	160	NSYMM3025	-	-	NSYMR3025	NSYMB3025	NSYMPP3025	NSYDLPLM18G	-	-
430	330	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMPP43	NSYDLA24G	NSYDPLM200	NSYCS300PLM
530	430	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMPP54	NSYDLA48G	NSYDPLM200	NSYCS400PLM
647	436	250	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMB64	NSYMPP64	NSYDLA48PG	NSYDPLM250	NSYCS400PLM
747	536	300	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMPP75	NSYDLA66G and NSYDLA88G	NSYDPLM300	NSYCS500PLM
847	636	300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMPP86	NSYDLA84G and NSYDLA112G	NSYDPLM300	NSYCS600PLM
1056	852	350	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMPP108	NSYDLA234G	NSYDPLM350	NSYCS800PLM
Details			see page 230				see page 231		see page 184	see page 188	

Main accessories

								
Dimensions								
Height (mm)	Width (mm)	Depth (mm)	Fixing lugs	Postfixing device	Floormounting pillar	Coupling frame	Cablegland plate	Internal door	Blanking plates	Plinth ZM RAL 7032
310	215	160	NSYPFPLM32G	-	-	-	-	-	NSYCEPLMAG	-
308	255	160	NSYPFPLMG	-	-	-	-	NSYPA3025PLMG	-	-
430	330	200	NSYPFPLMG	NSYSFP300	-	-	-	NSYPAP43G	NSYCEPLMBG	-
530	430	200	NSYPFPLMG	NSYSFP400	NSYSFSPLMG	-	-	NSYPAP54G	NSYCEPLMBG	-
647	436	250	NSYPFPLMG	NSYSFP400	NSYSFSPLMG	-	-	NSYPAP64G	NSYCEPLMCG	-
747	536	300	NSYPFPLMG	NSYSFP500	-	NSYBUPLMG	NSYTLA4420G	NSYPAP75G	NSYCEPLMCG	NSYZM253G
847	636	300	NSYPFPLMG	NSYSFP600	-	NSYBUPLMG	NSYTLA4420G	NSYPAP86G	NSYCEPLMCG	NSYZM263G
1056	852	350	NSYPFPLMG	-	-	NSYBU108PLMG	NSYTLA6420G	NSYPAP108G	-	NSYZM283G
Details			see page 182			see page 188		see page 183	see page 182	see page 181

Water drain plug: Page 189
Rail-fixing nuts: Page 188
Ventilation louvre: Page 189

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester floor-standing enclosures

Indoor and Outdoor:
For outdoor use, must install a canopy.

Completely sealed enclosures, IP65						Enclosures with open bottom part, IP54
				 PLA	 PLA	 PLAZ
Dimensions						
Height (mm)	Width (mm)	Depth (mm)	N° of doors	Plain	Glazed**	Plain
500	500	320	1	NSYPLA553G	NSYPLA553TG	NSYPLAZ553G
500	500	420	1	NSYPLA554G	NSYPLA554TG	NSYPLAZ554G
500	750	320	1	NSYPLA573G	NSYPLA573TG	NSYPLAZ573G
500	750	420	1	NSYPLA574G	NSYPLA574TG	NSYPLAZ574G
500	1000	320	2	NSYPLA5103G	NSYPLA5103TG	NSYPLAZ5103G
500	1000	420	2	NSYPLA5104G	NSYPLA5104TG	NSYPLAZ5104G
500	1250	320	2	NSYPLA5123G	NSYPLA5123TG	NSYPLAZ5123G
500	1250	420	2	NSYPLA5124G	NSYPLA5124TG	NSYPLAZ5124G
750	500	320	1	NSYPLA753G	NSYPLA753TG	NSYPLAZ753G
750	500	420	1	NSYPLA754G	NSYPLA754TG	NSYPLAZ754G
750	750	320	1	NSYPLA773G	NSYPLA773TG	NSYPLAZ773G
750	750	420	1	NSYPLA774G	NSYPLA774TG	NSYPLAZ774G
750	750	620	1	NSYPLA776G	NSYPLA776TG	NSYPLAZ776G
750	1000	320	2	NSYPLA7103G	NSYPLA7103TG	NSYPLAZ7103G
750	1000	420	2	NSYPLA7104G	NSYPLA7104TG	NSYPLAZ7104G
750	1250	320	2	NSYPLA7123G	NSYPLA7123TG	NSYPLAZ7123G
750	1250	420	2	NSYPLA7124G	NSYPLA7124TG	NSYPLAZ7124G
1000	500	320	1	NSYPLA1053G	NSYPLA1053TG	NSYPLAZ1053G
1000	500	420	1	NSYPLA1054G	NSYPLA1054TG	NSYPLAZ1054G
1000	750	320	1	NSYPLA1073G	NSYPLA1073TG	NSYPLAZ1073G
1000	750	420	1	NSYPLA1074G	NSYPLA1074TG	NSYPLAZ1074G
1000	1000	320	2	NSYPLA10103G	NSYPLA10103TG	NSYPLAZ10103G
1000	1000	420	2	NSYPLA10104G	NSYPLA10104TG	NSYPLAZ10104G
1000	1250	320	2	NSYPLA10123G	NSYPLA10123TG	NSYPLAZ10123G
1000	1250	420	2	NSYPLA10124G	NSYPLA10124TG	NSYPLAZ10124G
1250	500	320	1	NSYPLA1253G	NSYPLA1253TG	NSYPLAZ1253G
1250	500	420	1	NSYPLA1254G	NSYPLA1254TG	NSYPLAZ1254G
1250	750	320	1	NSYPLA1273G	NSYPLA1273TG	NSYPLAZ1273G
1250	750	420	1	NSYPLA1274G	NSYPLA1274TG	NSYPLAZ1274G
1250	750	620	1	NSYPLA1276G	NSYPLA1276TG	NSYPLAZ1276G
1250	1000	320	2	NSYPLA12103G	NSYPLA12103TG	NSYPLAZ12103G
1250	1000	420	2	NSYPLA12104G	NSYPLA12104TG	NSYPLAZ12104G
1250	1250	320	2	NSYPLA12123G	NSYPLA12123TG	NSYPLAZ12123G
1250	1250	420	2	NSYPLA12124G	NSYPLA12124TG	NSYPLAZ12124G
1250	1250	620	2	NSYPLA12126G	NSYPLA12126TG	NSYPLAZ12126G
1500	500	320	1	NSYPLA1553G	NSYPLA1553TG	NSYPLAZ1553G
1500	500	420	1	NSYPLA1554G	NSYPLA1554TG	NSYPLAZ1554G
1500	750	320	1	NSYPLA1573G	NSYPLA1573TG	NSYPLAZ1573G
1500	750	420	1	NSYPLA1574G	NSYPLA1574TG	NSYPLAZ1574G
1500	750	620	1	NSYPLA1576G	NSYPLA1576TG	NSYPLAZ1576G
1500	1000	320	2	NSYPLA15103G	NSYPLA15103TG	NSYPLAZ15103G
1500	1000	420	2	NSYPLA15104G	NSYPLA15104TG	NSYPLAZ15104G
1500	1250	320	2	NSYPLA15123G	NSYPLA15123TG	NSYPLAZ15123G
1500	1250	420	2	NSYPLA15124G	NSYPLA15124TG	NSYPLAZ15124G
1500	1250	620	2	NSYPLA15126G	NSYPLA15126TG	NSYPLAZ15126G
2000	750	420	2*	NSYPLA2074G	NSYPLA2074TG	NSYPLAZ2074G

*Two doors in vertical.

**Recommended to protect against the direct sun radiation.

PHD - Applicative and customised solutions:
See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 406.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester floor-standing enclosures

Indoor and Outdoor:
For outdoor use, must install a canopy.

Enclosures with ventilated canopy, IP44	Enclosures with open bottom part and ventilated canopy, IP44
 PLAT	 PLAZT

Dimensions					
Height (mm)	Width (mm)	Depth (mm)	N° of doors	Plain	Plain
500	500	320	1	**NSYPLAT553G**	**NSYPLAZT553G**
500	500	420	1	**NSYPLAT554G**	**NSYPLAZT554G**
500	750	320	1	**NSYPLAT573G**	**NSYPLAZT573G**
500	750	420	1	**NSYPLAT574G**	**NSYPLAZT574G**
500	1000	320	2	**NSYPLAT5103G**	**NSYPLAZT5103G**
500	1000	420	2	**NSYPLAT5104G**	**NSYPLAZT5104G**
500	1250	320	2	**NSYPLAT5123G**	**NSYPLAZT5123G**
500	1250	420	2	**NSYPLAT5124G**	**NSYPLAZT5124G**
750	500	320	1	**NSYPLAT753G**	**NSYPLAZT753G**
750	500	420	1	**NSYPLAT754G**	**NSYPLAZT754G**
750	750	320	1	**NSYPLAT773G**	**NSYPLAZT773G**
750	750	420	1	**NSYPLAT774G**	**NSYPLAZT774G**
750	750	620	1	**NSYPLAT776G**	**NSYPLAZT776G**
750	1000	320	2	**NSYPLAT7103G**	**NSYPLAZT7103G**
750	1000	420	2	**NSYPLAT7104G**	**NSYPLAZT7104G**
750	1250	320	2	**NSYPLAT7123G**	**NSYPLAZT7123G**
750	1250	420	2	**NSYPLAT7124G**	**NSYPLAZT7124G**
1000	500	320	1	**NSYPLAT1053G**	**NSYPLAZT1053G**
1000	500	420	1	**NSYPLAT1054G**	**NSYPLAZT1054G**
1000	750	320	1	**NSYPLAT1073G**	**NSYPLAZT1073G**
1000	750	420	1	**NSYPLAT1074G**	**NSYPLAZT1074G**
1000	1000	320	2	**NSYPLAT10103G**	**NSYPLAZT10103G**
1000	1000	420	2	**NSYPLAT10104G**	**NSYPLAZT10104G**
1000	1250	320	2	**NSYPLAT10123G**	**NSYPLAZT10123G**
1000	1250	420	2	**NSYPLAT10124G**	**NSYPLAZT10124G**
1250	500	320	1	**NSYPLAT1253G**	**NSYPLAZT1253G**
1250	500	420	1	**NSYPLAT1254G**	**NSYPLAZT1254G**
1250	750	320	1	**NSYPLAT1273G**	**NSYPLAZT1273G**
1250	750	420	1	**NSYPLAT1274G**	**NSYPLAZT1274G**
1250	750	620	1	**NSYPLAT1276G**	**NSYPLAZT1276G**
1250	1000	320	2	**NSYPLAT12103G**	**NSYPLAZT12103G**
1250	1000	420	2	**NSYPLAT12104G**	**NSYPLAZT12104G**
1250	1250	320	2	**NSYPLAT12123G**	**NSYPLAZT12123G**
1250	1250	420	2	**NSYPLAT12124G**	**NSYPLAZT12124G**
1250	1250	620	2	**NSYPLAT12126G**	**NSYPLAZT12126G**
1500	500	320	1	**NSYPLAT1553G**	**NSYPLAZT1553G**
1500	500	420	1	**NSYPLAT1554G**	**NSYPLAZT1554G**
1500	750	320	1	**NSYPLAT1573G**	**NSYPLAZT1573G**
1500	750	420	1	**NSYPLAT1574G**	**NSYPLAZT1574G**
1500	750	620	1	**NSYPLAT1576G**	**NSYPLAZT1576G**
1500	1000	320	2	**NSYPLAT15103G**	**NSYPLAZT15103G**
1500	1000	420	2	**NSYPLAT15104G**	**NSYPLAZT15104G**
1500	1250	320	2	**NSYPLAT15123G**	**NSYPLAZT15123G**
1500	1250	420	2	**NSYPLAT15124G**	**NSYPLAZT15124G**
1500	1250	620	2	**NSYPLAT15126G**	**NSYPLAZT15126G**
2000	750	420	2*	**NSYPLAT2074G**	**NSYPLAZT2074G**

*Two doors in vertical.

PHD - Applicative and customised solutions:
See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 406.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester floor-standing enclosures

Mounting accessories

			Metallic mounting plates		Insulating mounting plates		Modular distributionchassis		Internal door
									
Dimensions									
Height (mm)	Width (mm)	No. of doors	Plain	Telequick	Polyester	Bakelite			
500	500	1	**NSYPMM55**	**NSYPMR55**	**NSYPMA55**	**NSYPMB55**	-	-	**NSYPAPLA55G**
500	750	1	**NSYPMM75**	**NSYPMR57**	**NSYPMA75**	**NSYPMB75**	-	-	**NSYPAPLA57G**
500	1000	2	**NSYPMM510**	2 x **NSYPMR55**	**NSYPMA510**	**NSYPMB510**	-	-	2 x **NSYPAPLA55G**
500	1250	2	**NSYPMM55 + NSYPMM75**	**NSYPMR55 + NSYPMR57**	**NSYPMA55 + NSYPMA75**	**NSYPMB55 + NSYPMB75**	-	-	**NSYPAPLA55G + NSYPAPLA57G**
750	500	1	**NSYPMM75**	**NSYPMR75**	**NSYPMA75**	**NSYPMB75**	**NSYDLP76G**	**NSYDLP57G**	**NSYPAPLA75G**
750	750	1	**NSYPMM77**	**NSYPMR77**	**NSYPMA77**	**NSYPMB77**	**NSYDLP132G**	**NSYDLP99G**	**NSYPAPLA77G**
750	1000	2	**NSYPMM710**	2 x **NSYPMR75**	**NSYPMA710**	**NSYPMB710**	2 x **NSYDLP76G**	2 x **NSYDLP57G**	2 x **NSYPAPLA75G**
750	1250	2	**NSYPMM712**	**NSYPMR75 + NSYPMR77**	**NSYPMA712**	**NSYPMB712**	**NSYDLP76G + NSYDLP132G**	**NSYDLP57G + NSYDLP99G**	**NSYPAPLA75G + NSYPAPLA77G**
1000	500	1	**NSYPMM105**	**NSYPMR105**	**NSYPMA105**	**NSYPMB105**	**NSYDLP114G**	**NSYDLP95G**	**NSYPAPLA105G**
1000	750	1	**NSYPMM107**	**NSYPMR107**	**NSYPMA107**	**NSYPMB107**	**NSYDLP198G**	**NSYDLP165G**	**NSYPAPLA107G**
1000	1000	2	**NSYPMM1010**	2 x **NSYPMR105**	**NSYPMA1010**	**NSYPMB1010**	2 x **NSYDLP114G**	2 x **NSYDLP95G**	2 x **NSYPAPLA105G**
1000	1250	2	**NSYPMM1012**	**NSYPMR105 + NSYPMR107**	**NSYPMA1012**	**NSYPMB1012**	**NSYDLP114G + NSYDLP198G**	**NSYDLP95G + NSYDLP165G**	**NSYPAPLA105G + NSYPAPLA107G**
1250	500	1	**NSYPMM125**	**NSYPMR125**	**NSYPMA125**	**NSYPMB125**	**NSYDLP133G**	**NSYDLP114PG**	**NSYPAPLA125G**
1250	750	1	**NSYPMM127**	**NSYPMR127**	**NSYPMA127**	**NSYPMB127**	**NSYDLP231G**	**NSYDLP198PG**	**NSYPAPLA127G**
1250	1000	2	**NSYPMM1210**	2 x **NSYPMR125**	**NSYPMA1210**	**NSYPMB1210**	2 x **NSYDLP133G**	2 x **NSYDLP114PG**	2 x **NSYPAPLA125G**
1250	1250	2	**NSYPMM1212**	**NSYPMR125 + NSYPMR127**	**NSYPMA1212**	**NSYPMB1212**	**NSYDLP133G + NSYDLP231G**	**NSYDLP114PG + NSYDLP198PG**	**NSYPAPLA125G + NSYPAPLA127G**
1500	500	1	**NSYPMM155**	**NSYPMR155**	-	**NSYPMB155**	**NSYDLP171G**	**NSYDLP152G**	**NSYPAPLA155G**
1500	750	1	**NSYPMM157**	**NSYPMR157**	-	**NSYPMB157**	**NSYDLP297G**	**NSYDLP264G**	**NSYPAPLA157G**
1500	1000	2	**NSYPMM1510**	2 x **NSYPMR155**	-	**NSYPMB1510**	2 x **NSYDLP171G**	2 x **NSYDLP152G**	2 x **NSYPAPLA155G**
1500	1250	2	**NSYPMM1512**	**NSYPMR155 + NSYPMR157**	-	**NSYPMB1512**	**NSYDLP171G + NSYDLP297G**	**NSYDLP152G + NSYDLP264G**	**NSYPAPLA155G + NSYPAPLA157G**
2000	750	2	**NSYPMM207**	2 x **NSYPMR107**	2 x **NSYPMA107**	2 x **NSYPMB107**	-	-	-
Details			**see page 210**		**see page 210**		**see page 212**		**see page 206**

Step slides: **Page 214**
Uprights and mounting rails: **Page 240**
Door retainer: **Page 206**

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Polyester floor-standing enclosures

Composition accessories

		N plinth	H plinth	ZA plinth	ZZ plinth		Floor-fixing frame	Canopy	Cable entry plate
									
Dimensions									
Width (mm)	Depth (mm)	Height 60 mm	Height 900 mm	Height 200 mm	Height 200 mm	Height 500 mm			
500	320	**NSYZNPLA53G**	**NSYZHPLA53G**	**NSYZA253G**	**NSYZZ253G**	**NSYZZ553G**	**NSYMFPLAZ53**	**NSYTJPLA53G**	**NSYECPLAZ53G**
500	420	**NSYZNPLA54G**	**NSYZHPLA54G**	**NSYZA254G**	**NSYZZ254G**	**NSYZZ554G**	**NSYMFPLAZ54**	**NSYTJPLA54G**	**NSYECPLAZ54G**
500	320	**NSYZNPLA73G**	**NSYZHPLA73G**	**NSYZA273G**	**NSYZZ273G**	**NSYZZ573G**	**NSYMFPLAZ73**	**NSYTJPLA73G**	**NSYECPLAZ73G**
500	420	**NSYZNPLA74G**	**NSYZHPLA74G**	**NSYZA274G**	**NSYZZ274G**	**NSYZZ574G**	**NSYMFPLAZ74**	**NSYTJPLA74G**	**NSYECPLAZ74G**
750	620	-	-	**NSYZA276G**	**NSYZZ276G**	-	**NSYMFPLAZ76**	**NSYTJPLA76G**	**NSYECPLAZ76G**
750	320	**NSYZNPLA103G**	**NSYZHPLA103G**	**NSYZA2103G**	**NSYZZ2103G**	**NSYZZ5103G**	**NSYMFPLAZ103**	**NSYTJPLA103G**	**NSYECPLAZ103G**
750	420	**NSYZNPLA104G**	**NSYZHPLA104G**	**NSYZA2104G**	**NSYZZ2104G**	**NSYZZ5104G**	**NSYMFPLAZ104**	**NSYTJPLA104G**	**NSYECPLAZ104G**
750	320	**NSYZNPLA123G**	**NSYZHPLA123G**	**NSYZA2123G**	**NSYZZ2123G**	**NSYZZ5123G**	**NSYMFPLAZ123**	**NSYTJPLA123G**	**NSYECPLAZ123G**
1000	420	**NSYZNPLA124G**	**NSYZHPLA124G**	**NSYZA2124G**	**NSYZZ2124G**	**NSYZZ5124G**	**NSYMFPLAZ124**	**NSYTJPLA124G**	**NSYECPLAZ124G**
1000	620	-	-	**NSYZA2126G**	**NSYZZ2126G**	-	**NSYMFPLAZ126**	**NSYTJPLA126G**	**NSYECPLAZ126G**
Details		**see page 203**	**see page 205**	**see page 202**	**see page 204**		**see page 205**	**see page 201**	**see page 201**

VDI accessories

		19" fixed chassis		19" swing chassis	
					
Dimensions					
Height (mm)	Width (mm)	Number of U	References	Number of U	References
500	750	8	**NSYBRF8PLAG**	7	**NSYBRP7PLAG**
750	750	12	**NSYBRF12PLAG** + **NSYSPLA75**	11	**NSYBRP11PLAG** + **NSYSPLA75**
1000	750	17	**NSYBRF17PLAG** + **NSYSPLA100**	16	**NSYBRP16PLAG** + **NSYSPLA100**
1250	750	21	**NSYBRF21PLAG** + **NSYSPLA125**	20	**NSYBRP20PLAG** + **NSYSPLA125**
1500	750	26	**NSYBRF26PLAG** + **NSYSPLA150***	25	**NSYBRP25PLAG** + **NSYSPLA150***
2000	750	2 x 17	2 x **NSYBRF17PLAG** + 2 x **NSYSPLA100** + **NSYPTZ4**	2 x 16	2 x **NSYBRP16PLAG** + 2 x **NSYSPLA100**
Details		**see page 209**		**see page 209**	

* not compatible with **NSYCAAPVHD**

Door switch: Page 206
Insert: Page 215
Document pocket: Page 290

VDI accessories and fixings: Page 259
Coupling Kit: Page 200
Anti graffiti paint: Page 201

Handles and inserts: Page 207
Wall fixing lug: Page 201

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Spacial SDB metallic junction boxes



Steel industrial boxes



Life Is On Schneider Electric

Steel industrial boxes

Spacial SDB

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Spacial SBM

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Characteristics

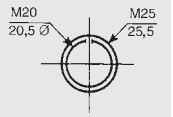
Dimensions 41

Metallic junction boxes

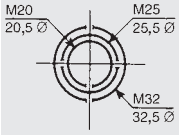
Metallic junction boxes

- PVC sealing gasket on sizes up to 20/15 and a rubber gasket for > 25/20.
- Back ready for threaded drill holes for fixing equipment. From size 15/10 and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate.
- With low cover.
- The SDB series consists of 2 basic models:
- without knock-outs: **NSYDB●●●**
- with knock-outs: **NSYDB●●●M**
- Material: Sheet steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK07 according to IEC 62262
- Installation: Indoor installation: Direct wall-mounting by means of drill holes fitted with plastic plugs to ensure sealing Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion).

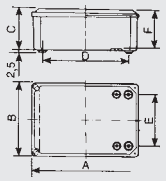
Group n° 1



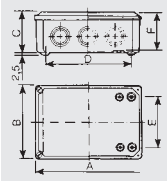
Group n° 2



NSYDBN●●●



NSYDB●●●M



Low cover models without knock-outs



NSYDBN1510

External dimensions (mm)			Dimensions (mm)				Weight	References
Height (A)	Width (B)	Depth (C)	D	E	F		(kg)	
85	85	49	58	58	-		0.18	**NSYDBN88**
105	105	49	76	76	-		0.25	**NSYDBN1010**
155	105	61	124	74	56		0.38	**NSYDBN1510**
206	156	83	172	122	78		1.00	**NSYDBN2015**
256	206	93	220	170	88		1.5	**NSYDBN2520**
307	257	116	268	218	110		3.3	**NSYDBN3025**

Low cover models with knock-outs



NSYDB2015M

External dimensions (mm)			Dimensions (mm)			Knock-outs		Weight	References
Height (A)	Width (B)	Depth (C)	D	E	F	Height (A)	Width (B)	(kg)	
85	85	49	58	58	-	1 n° 1	1 n° 1	0.18	**NSYDB88M**
105	105	49	76	76	-	2 n° 1	1 n° 1	0.25	**NSYDB1010M**
155	105	61	124	74	56	3 n° 1	1 n° 1	0.38	**NSYDB1510M**
206	156	83	172	122	78	3 n° 2	2 n° 2	1.00	**NSYDB2015M**

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Metallic junction boxes

Plain mounting plates for SDB junction boxes

for models without knock-outs	for models with knock-outs	References
NSYDBN1510	NSYDB1510M	**NSYPMD1510**
NSYDBN2015	NSYDB2015M	**NSYPMD2015**
NSYDBN2520	NSYDB2520M	**NSYPMD2520**
NSYDBN3025	NSYDB3025M	**NSYPMD3025**

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Simplicity, ergonomics and versatility, it's all in the box.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

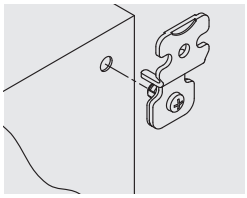
Machining





Modularity

- 28 sizes available.



Easy installation

- Direct mounting though the rear.
- Mounting with versatile external lugs.

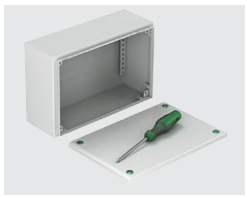


Added value to your work

- Quality and aesthetics.

Sturdy and good ingress protection

- Mechanical protection rating up to IK10.
- Ingress protection rating up to IP66.



Ergonomics

- Cover opening and accessory mounting with just a screwdriver.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.



Characteristics	Spacial SBM - Flat box with plain cover
Box body	Single-piece body (cross-shaped structure). Front design incorporating folded gutters. Flat rear. 2 (or 3 profiles for width 800 mm) drilled profiles for installing mounting plates and DIN rails, with mounting centres of 12.5 mm.
Box cover	Equipped with 4 or 6 half-turn thread screws, according to the version (6 screws for width greater than 400 mm) to ensure maximum watertightness. Polyurethane sealing gasket.
Protection of personnel	Ground connection mandatory for all boxes: Spacial SBM steel boxes are equipped with a M6 x 16 ground stud welded in the cover, to be linked with the body for equipotential connection. Grounding strap to be ordered separately (Ø 6.4 mm terminal).
Material	Sheet steel
Finish	Structured finish, epoxy polyester powder
Colour	RAL 7035 grey
Ingress protection rating	• IP66 according to IEC 60529 • Type 4, 4X according to UL 50, 50E
Mechanical protection rating	IK10 according to IEC 62262
Standard	Compliance with enclosure standard IEC 62208 and the RoHS directive
Certifications (see page 614)	• UL, BV, LR, DNV-GL • Fire class: M0 (EN 13501-1)
Indoor installation	Direct wall-mounting (4 x Ø 10 mm holes) or with the help of mounting lugs installed from the outside (to be ordered separately, see the specific accessory pages).
Maximum load	Loading capacity on the body: 50 kg/m²
Vibration constraints	Specific construction of the Spacial SBM - Single-piece body (rectangular structure). The rear is flat without added parts - this ensures compliance with certain vibration constraints.
Seismic constraint	The seismic behavior of the the industrial boxes Spacial SBM have been qualified according to MRI spectra "big material" specified in the standard IEC 60068-2-6 and IEC 60068-2-57 (see page 420 for more details). Tested enclosure configuration: • Plain door, • Plain mounting plate with a load of 200 kg/m² uniformly distributed on the mounting plate, • Fixing to the wall with M8 screws (tightening torque: 12 Nm ± 1 Nm). Level of the seismic behavior obtained: • 1G for boxes with the following dimensions: - height = 400 mm and width ≥ 500 mm - height = 300 mm and width ≥ 600 mm - height = 200 mm and width = 800 mm • 3G for other dimension

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel industrial boxes

				SBM			
						 Standard Bus box phased out	
Dimensions (mm)			Cover screws Bus Boxes phased out divide by 2	Flat box	Mounting plate without screws	DIN rail 10 rails, supplied without screws	Post mounting
Height	Width	Depth					
150	150	80	4	**NSYSBM15158**	**NSYMM11SB**	**NSYAMRD15357SB**	**NSYSFPSC15**
150	150	120	4	**NSYSBM151512**	**NSYMM11SB**	**NSYAMRD15357SB**	**NSYSFPSC15**
150	200	80	4	**NSYSBM15208**	**NSYMM12SB**	**NSYAMRD20357SB**	**NSYSFPSC20**
150	200	120	4	**NSYSBM152012**	**NSYMM12SB**	**NSYAMRD20357SB**	**NSYSFPSC20**
150	300	80	4	**NSYSBM15308**	**NSYMM13SB**	**NSYAMRD30357SB**	**NSYSFPSC30**
150	300	120	4	**NSYSBM153012**	**NSYMM13SB**	**NSYAMRD30357SB**	**NSYSFPSC30**
150	400	80	4	**NSYSBM15408**	**NSYMM14SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
150	400	120	4	**NSYSBM154012**	**NSYMM14SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
200	200	80	4	**NSYSBM20208**	**NSYMM22SB**	**NSYAMRD20357SB**	**NSYSFPSC20**
200	200	120	4	**NSYSBM202012**	**NSYMM22SB**	**NSYAMRD20357SB**	**NSYSFPSC20**
200	300	80	4	**NSYSBM20308**	**NSYMM23SB**	**NSYAMRD30357SB**	**NSYSFPSC30**
200	300	120	4	**NSYSBM203012**	**NSYMM23SB**	**NSYAMRD30357SB**	**NSYSFPSC30**
200	400	80	4	**NSYSBM20408**	**NSYMM24SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
200	400	120	4	**NSYSBM204012**	**NSYMM24SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
200	500	80	6	**NSYSBM20508**	**NSYMM25SB**	**NSYAMRD50357SB**	**NSYSFPSC50**
200	500	120	6	**NSYSBM205012**	**NSYMM25SB**	**NSYAMRD50357SB**	**NSYSFPSC50**
200	600	80	6	**NSYSBM20608**	**NSYMM26SB**	**NSYAMRD60357SB**	**NSYSFPSC60**
200	600	120	6	**NSYSBM206012**	**NSYMM26SB**	**NSYAMRD60357SB**	**NSYSFPSC60**
200	800	120	6	**NSYSBM208012**	**NSYMM28SB**	**NSYAMRD80357SB**	**NSYSFPSC80**
300	300	120	4	**NSYSBM303012**	**NSYMM33SB**	**NSYAMRD30357SB**	**NSYSFPSC30**
300	400	120	4	**NSYSBM304012**	**NSYMM34SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
300	500	120	6	**NSYSBM305012**	**NSYMM35SB**	**NSYAMRD50357SB**	**NSYSFPSC50**
300	600	120	6	**NSYSBM306012**	**NSYMM36SB**	**NSYAMRD60357SB**	**NSYSFPSC60**
300	800	120	6	**NSYSBM308012**	**NSYMM38SB**	**NSYAMRD80357SB**	**NSYSFPSC80**
400	400	120	4	**NSYSBM404012**	**NSYMM44SB**	**NSYAMRD40357SB**	**NSYSFPSC40**
400	500	120	6	**NSYSBM405012**	**NSYMM45SB**	**NSYAMRD50357SB**	**NSYSFPSC50**
400	600	120	6	**NSYSBM406012**	**NSYMM46SB**	**NSYAMRD60357SB**	**NSYSFPSC60**
400	800	120	6	**NSYSBM408012**	**NSYMM48SB**	**NSYAMRD80357SB**	**NSYSFPSC80**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

				Head screws		
	 1 gasket and necessary hardware					
	Mounting lugs	Self-tapping screws	Hinges	Double bar shaped head screw	Triangle shaped head screw	Sealing kit
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB
	NSYAEFPFSB	NSYAMFSB	NSYAEDHSB	NSYAEDSBSB	NSYAEDSTSB	NSYPPSB

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel industrial boxes

Flat boxes (SBM)


NSYSBM15158

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Power dissipation	Sheet thickness	References
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	150	150	80	13.5	10/10e	**NSYSBM15158**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	150	150	120	17.2	10/10e	**NSYSBM151512**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	150	200	80	16.6	10/10e	**NSYSBM15208**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	150	200	120	20.8	10/10e	**NSYSBM152012**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	150	300	80	22.8	10/10e	**NSYSBM15308**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	150	300	120	28.1	10/10e	**NSYSBM153012**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	150	400	80	29.0	10/10e	**NSYSBM15408**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	150	400	120	35.3	10/10e	**NSYSBM154012**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	200	200	80	20.6	10/10e	**NSYSBM20208**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	200	200	120	25.6	10/10e	**NSYSBM202012**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	200	300	80	28.2	10/10e	**NSYSBM20308**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	200	300	120	34.2	10/10e	**NSYSBM203012**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	200	400	80	35.7	10/10e	**NSYSBM20408**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	200	400	120	42.8	10/10e	**NSYSBM204012**
Flat box IP66 IK10 RAL 7035, 6 screws f. cover	200	500	80	43.3	12/10e	**NSYSBM20508**
Flat box IP66 IK10 RAL 7035, 6 screws f. cover	200	500	120	51.4	12/10e	**NSYSBM205012**
Flat box IP66 IK10 RAL 7035, 6 screws f. cover	200	600	80	50.8	12/10e	**NSYSBM20608**
Flat box IP66 IK10 RAL 7035, 6 screws f. cover	200	600	120	60.1	12/10e	**NSYSBM206012**
Flat box IP66 IK10 RAL 7035, 6 screws f. cover	200	800	120	77.3	12/10e	**NSYSBM208012**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	300	300	120	46.4	10/10e	**NSYSBM303012**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	300	400	120	57.8	10/10e	**NSYSBM304012**
Flat box IP66 IK10 RAL 7035, 6 screws f. cover	300	500	120	69.1	12/10e	**NSYSBM305012**
Flat box IP66 IK10 RAL 7035, 6 screws f. cover	300	600	120	80.4	12/10e	**NSYSBM306012**
Flat box IP66 IK10 RAL 7035, 6 screws f. cover	300	800	120	103.0	12/10e	**NSYSBM308012**
Flat box IP66 IK10 RAL 7035, 4 screws f. cover	400	400	120	72.7	10/10e	**NSYSBM404012**
Flat box IP66 IK10 RAL 7035, 6 screws f. cover	400	500	120	86.7	12/10e	**NSYSBM405012**
Flat box IP66 IK10 RAL 7035, 6 screws f. cover	400	600	120	100.7	12/10e	**NSYSBM406012**
Flat box IP66 IK10 RAL 7035, 6 screws f. cover	400	800	120	128.7	12/10e	**NSYSBM408012**

Mounting plate

- Material: Galvanised steel
- Installation: Mounting by means of 2* or 4 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB**.
  Attachment points compatible with many other brands of accessories

Supply:
1 unit, supplied without screws


NSYMM11SB

Characteristics	Height (mm)	Width (mm)	References
Mounting plate	125	135	**NSYMM11SB**
Mounting plate	125	185	**NSYMM12SB**
Mounting plate	125	285	**NSYMM13SB**
Mounting plate	125	385	**NSYMM14SB**
Mounting plate	175	185	**NSYMM22SB**
Mounting plate	175	265	**NSYMM23SB**
Mounting plate	175	385	**NSYMM24SB**
Mounting plate	175	485	**NSYMM25SB**
Mounting plate	175	585	**NSYMM26SB**
Mounting plate	175	785	**NSYMM28SB**
Mounting plate	275	285	**NSYMM33SB**
Mounting plate	275	385	**NSYMM34SB**
Mounting plate	275	485	**NSYMM35SB**
Mounting plate	275	585	**NSYMM36SB**
Mounting plate	275	785	**NSYMM38SB**
Mounting plate	375	385	**NSYMM44SB**
Mounting plate	375	485	**NSYMM45SB**
Mounting plate	375	585	**NSYMM46SB**
Mounting plate	375	785	**NSYMM48SB**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel industrial boxes

Symmetrical DIN rails 35 x 7.5 mm

- Material: Galvanised steel
- Installation: Mounting by means of 2 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB**
- All boxes are delivered with 5 x Ø 5 mm self-tapping screws.

Supply:
10 rails, supplied without screws



NSYAMRD15357SB

Characteristics	Height (mm)	Width (mm)	References
Symmetrical DIN rail	35	150	**NSYAMRD15357SB**
Symmetrical DIN rail	35	200	**NSYAMRD20357SB**
Symmetrical DIN rail	35	300	**NSYAMRD30357SB**
Symmetrical DIN rail	35	400	**NSYAMRD40357SB**
Symmetrical DIN rail	35	200	**NSYAMRD20357SB**
Symmetrical DIN rail	35	300	**NSYAMRD30357SB**
Symmetrical DIN rail	35	400	**NSYAMRD40357SB**
Symmetrical DIN rail	35	500	**NSYAMRD50357SB**
Symmetrical DIN rail	35	600	**NSYAMRD60357SB**
Symmetrical DIN rail	35	800	**NSYAMRD80357SB**
Symmetrical DIN rail	35	300	**NSYAMRD30357SB**
Symmetrical DIN rail	35	400	**NSYAMRD40357SB**
Symmetrical DIN rail	35	500	**NSYAMRD50357SB**
Symmetrical DIN rail	35	600	**NSYAMRD60357SB**
Symmetrical DIN rail	35	800	**NSYAMRD80357SB**
Symmetrical DIN rail	35	400	**NSYAMRD40357SB**
Symmetrical DIN rail	35	500	**NSYAMRD50357SB**
Symmetrical DIN rail	35	600	**NSYAMRD60357SB**
Symmetrical DIN rail	35	800	**NSYAMRD80357SB**

Post mounting

- Material: Zinc plated steel
- Rail mounted externally to the rear of the box with 8 mm screws for installation on posts with diameters between 150 mm and 215 mm.
- For steel boxes with widths of 150, 200, 300, 400, 500, 600 and 800 mm.
- Maximum load: 100 kg

Supply:
1 unit



NSYSFPSC15

Characteristics	Height (mm)	Width (mm)	References
Post mounting	45	150	**NSYSFPSC15**
Post mounting	45	200	**NSYSFPSC20**
Post mounting	45	300	**NSYSFPSC30**
Post mounting	45	400	**NSYSFPSC40**
Post mounting	45	500	**NSYSFPSC50**
Post mounting	45	600	**NSYSFPSC60**
Post mounting	45	800	**NSYSFPSC80**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel industrial boxes

Mounting lugs

- Wall-mounting lugs to be mounted directly on the rear of the box, either in horizontal or vertical position. Their versatile design complies with the mounting dimensions of many other enclosures.
- Ingress protection rating: IP66 according to IEC 60529
- Installation: Horizontal or vertical position, distance between wall and enclosure: 10 mm, only requires a screw driver
- Maximum load: 70 kg

Supply:
4 wall-mounting lugs, screws and pre-mounted sealing gaskets



NSYAEFPFSB

Characteristics	References
wall-mounting lugs	**NSYAEFPFSB**

Self-tapping screws

- Same reference for all enclosure dimensions
- Self-tapping, Pozidriv head, screws, for Ø 5 mm holes.

Supply:
100 units



NSYAMFSB

Characteristics	References
Self-tapping screws	**NSYAMFSB**

Hinges

- The hinges allow the cover to be opened by more than 180°.
- They can be installed on all covers of the range.
- Ingress protection rating: IP66 according to IEC 60529

Installation:

- The box must be drilled before installing the 2 or 3 hinges on the body.
- 3 hinges are required for boxes of width more than 500 mm
- A specific mark on the body helps to locate where the hole should be drilled
- Maximum load: 30 kg/m² on the hinged cover
- Same reference for all enclosure dimensions

Supply:
Set of 6 hinges delivers with fixing hardware



NSYAEDHSB

Characteristics	References
Hinges SBM	**NSYAEDHSB**

Head screws

- The standard Pozidriv head screws can be replaced with the Double bar or Triangle shaped head screws, to discourage unauthorised opening of the cover with normal screwdrivers.
- Ingress protection rating: IP66 according to IEC 60529
- Installation: Simply replace the standard screw on the box
- Same reference for all enclosure dimensions

Supply:
20 units



NSYAEDSBSB NSYAEDSTSB

Characteristics	References
Double bar shaped head 3 mm screw	**NSYAEDSBSB**
Triangle shaped head 6.5 mm screw	**NSYAEDSTSB**

Sealing kit

- The sealing kit helps to set up a lead-sealed wire of cover opening.
- Colour: Green
- Ingress protection rating: IP66 according to IEC 60529
- Installation: Replaces the standard sealing washer on the box
- Same reference for all enclosure dimensions

Supply:
1 unit



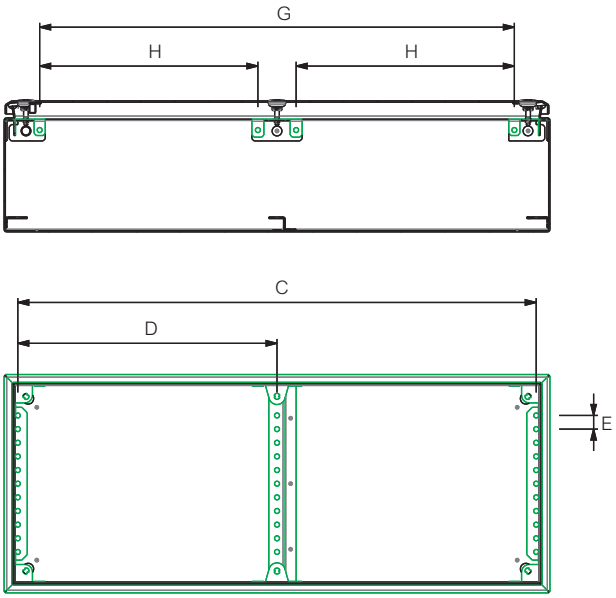
NSYPPSB

Characteristics	References
Sealing kit SBM	**NSYPPSB**

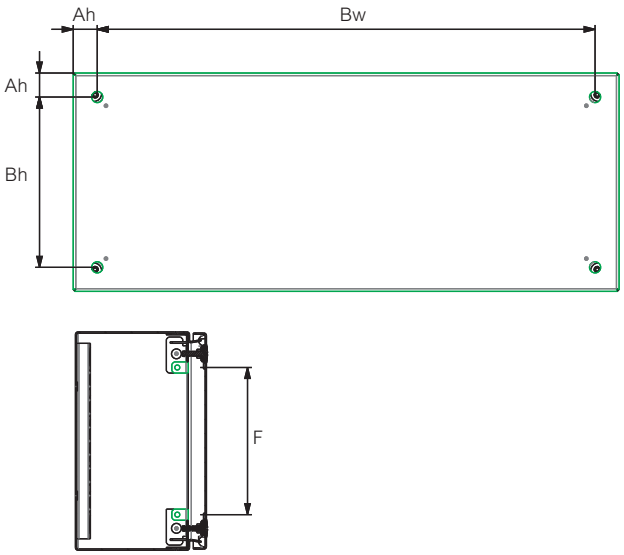
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Steel industrial boxes

Section A-A



Section B-B



External mounting of the box and mounting accessories

Box		Mounting								
Height	Width	Ah	Bh	Bw	C	D	E	F	G	H
150 mm	150 mm	20.5 mm	109 mm	109 mm	125 mm	-	12.5 mm	85 mm	85 mm	-
	200 mm	20.5 mm	109 mm	159 mm	175 mm	-	12.5 mm	85 mm	135 mm	-
	300 mm	20.5 mm	109 mm	259 mm	275 mm	-	12.5 mm	85 mm	235 mm	-
	400 mm	20.5 mm	109 mm	359 mm	375 mm	-	12.5 mm	85 mm	335 mm	-
200 mm	200 mm	20.5 mm	159 mm	159 mm	175 mm	-	12.5 mm	135 mm	135 mm	-
	300 mm	20.5 mm	159 mm	259 mm	275 mm	-	12.5 mm	135 mm	235 mm	-
	400 mm	20.5 mm	159 mm	359 mm	375 mm	-	12.5 mm	135 mm	335 mm	-
	500 mm	20.5 mm	159 mm	459 mm	475 mm	-	12.5 mm	135 mm	435 mm	200 mm
	600 mm	20.5 mm	159 mm	559 mm	575 mm	-	12.5 mm	135 mm	535 mm	250 mm
	800 mm	20.5 mm	159 mm	759 mm	775 mm	387.5 mm	12.5 mm	135 mm	735 mm	350 mm
300 mm	300 mm	20.5 mm	259 mm	259 mm	275 mm	-	12.5 mm	235 mm	235 mm	-
	400 mm	20.5 mm	259 mm	359 mm	375 mm	-	12.5 mm	235 mm	335 mm	-
	500 mm	20.5 mm	259 mm	459 mm	475 mm	-	12.5 mm	235 mm	435 mm	200 mm
	600 mm	20.5 mm	259 mm	559 mm	575 mm	-	12.5 mm	235 mm	535 mm	250 mm
	800 mm	20.5 mm	259 mm	759 mm	775 mm	387.5 mm	12.5 mm	235 mm	735 mm	350 mm
400 mm	400 mm	20.5 mm	359 mm	359 mm	375 mm	-	12.5 mm	335 mm	335 mm	-
	500 mm	20.5 mm	359 mm	459 mm	475 mm	-	12.5 mm	335 mm	435 mm	200 mm
	600 mm	20.5 mm	359 mm	559 mm	575 mm	-	12.5 mm	335 mm	535 mm	250 mm
	800 mm	20.5 mm	359 mm	759 mm	775 mm	387.5 mm	12.5 mm	335 mm	735 mm	350 mm

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You need an enclosure for indoor non-clean industrial environment.





Life Is On Schneider Electric

Steel wall-mounting enclosures

Spacial CRN

Introduction	44
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Selection guide	46
Accessories	55
Dimensions	66

You need an enclosure for indoor non-clean industrial environment.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

CRN



CRNG





Time Lasting

- Industrial welding process.
- Epoxy-polyester painting.
- Foamed-in polyurethane gasket.

All of the above guarantees quality, water and dust tightness for years. Front folded gutter prevents the entry of water, oil or liquids, ensuring IP66 protection



Sealed

- Glazed tempered glass door and fully water and dust tight, maintaining IP66 and IK08 protection



Safety

For people:

- Two welded M6 x 15 earth studs welded to the back and one M6 x 15 stud on the door

For your installation:

- Water and dust tightness IP66
- Ruggedness IK10 to protect your component from external impact
- Hidden hinges to prevent the removal of the door



Practical

- 4 welded M8 x 15 back studs shouldered 10 mm for direct installation of mounting plate



Smart

- Welded door reinforcement profile allowing the fixing of equipment in models from 500 mm high



Convenient

- Large embedded cable-entry plate with a neoprene seal, flush with the back of the enclosure
- Direct fixing or using the brackets fixed from outside

See page 522 for details or consult our web site www.se.com

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Characteristics	Spacial CRN	Spacial CRNG
	39 dimensions for this metal monobloc. Back piece joined to the sides using a special profile forming a protected sealed area.	• 17 dimensions with three-point locking system for this metal construction suite of enclosures • All Spacial CRNG models include a three-point locking system
Material	Steel	
Finish	Structured finish, epoxy-polyester powder	
Colour	RAL 7035 grey	
Ingress protection rating	• IP66 for one-door enclosures • IP55 for two-door enclosures according to IEC 60529	
Mechanical protection rating	IK10 for plain door and IK08 for glazed door according to IEC 62262	
Standards	IEC 62208	
Certifications	• UL, CUL • NEMA 4 for single-door enclosure according to UL508A • NEMA 12, 12K and 13 for double-door enclosure according to UL508A • RoHS compliance	
Installation	• Given their strength, metal enclosures are particularly well suited to indoor areas where they may experience impacts	
Supply	**Body** • 4 holes for direct fixing • Wall-fixing drill holes sealed with plastic plugs to ensure the degree of protection (supplied as standard) • Wall-fixing bracket fixed from outside (brackets to be ordered separately) • Direct cable entry • Built-in cable-entry plate, flush with the back of the enclosure (without foamed-in gasket to facilitate machining) • Insulated cable entries with knock-outs, available as an accessory • Easy to equip with 4 welded back studs shouldered 10 mm **Door** • 3-mm standard double-bar lock as standard. (Wide choice of inserts as accessories) • Foamed-in polyurethane gasket on the doors to guarantee water and dust tightness • Easily reversible door, fixed with two or three invisible metal hinges allowing the door to open to 120° • Reinforcement on plain doors with welded perforated door profiles for equipment fixing from models NSYCRN54150 • Welded earth studs on door and body • Delivered with a reusable packaging and technical instructions	**Body** • 4 holes for direct fixing • Wall-fixing drill holes sealed with plastic plugs to ensure water and dust tightness (supplied as standard) • Wall-fixing bracket fixed from outside, specific for large dimensions (to be ordered separatly). • Built-in cable-entry plate, flush with the back of the enclosure (without foamed-in gasket to facilitate machining) • Easy to equip with 4 welded back studs shouldered 10 mm (6 for widths of 1000 mm and 1200 mm) **Door** • Three-point locking system for one and two doors. Standard 5-mm double-bar lock • Door-centring piece on two-door enclosures to ensure proper door alignment • Foamed-in polyurethane gasket on the doors to guarantee water and dust tightness • Reinforcement on plain doors with welded perforated door profiles for equipment fixing • Delivered with a reusable packaging and technical instructions • Easily reversible door, fixed with two or three invisible metal hinges allowing the door to open to 120° • Welded earth studs on door and body

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CRN Steel wall-mounting enclosures

Dimensions						Enclosures			Mounting plates			
												
Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)	Doors	IP	Weight (kg) [1]	with plain door, with mounting plate	with plain door, without mounting plate	with glazed door, with mounting plate	Plain	Silkscreened	Micro-perforated	Telequick
200	200	150	1	66	2.5	-	NSYCRN22150 [2]	-	NSYMM22	-	-	-
200	300	150	1	66	3.9	-	NSYCRN23150 [2]	-	NSYMM32	-	NSYMF32	-
250	200	150	1	66	3.2	NSYCRN252150P	NSYCRN252150	-	NSYMM2520	-	-	-
300	250	150	1	66	4.2	NSYCRN325150P	NSYCRN325150	NSYCRN325150T	NSYMM3025	-	-	NSYMR3025
300	250	200	1	66	4.9	NSYCRN325200P	NSYCRN325200	NSYCRN325200T	NSYMM3025	-	-	NSYMR3025
300	300	150	1	66	5.0	NSYCRN33150P	NSYCRN33150	NSYCRN33150T	NSYMM33	-	NSYMF33	NSYMR33
300	300	200	1	66	6.0	NSYCRN33200P	NSYCRN33200	NSYCRN33200T	NSYMM33	-	NSYMF33	NSYMR33
300	400	200	1	66	6.4	-	NSYCRN34200	NSYCRN34200T	NSYMM43	NSYMS43	NSYMF43	NSYMR34
300	450	150	1	66	6.7	-	NSYCRN345150	-	NSYMM3045	-	-	-
400	300	150	1	66	6.0	NSYCRN43150P	NSYCRN43150	NSYCRN43150T	NSYMM43	NSYMS43	NSYMF43	NSYMR43
400	300	200	1	66	6.8	NSYCRN43200P	NSYCRN43200	NSYCRN43200T	NSYMM43	NSYMS43	NSYMF43	NSYMR43
400	400	200	1	66	8.0	NSYCRN44200P	NSYCRN44200	NSYCRN44200T	NSYMM44	NSYMS44	NSYMF44	NSYMR44
400	600	250	1	66	10.0	NSYCRN46250P	NSYCRN46250	NSYCRN46250T	NSYMM64	NSYMS64	NSYMF64	NSYMR46
400	600	300	1	66	11.2	-	NSYCRN46300	NSYCRN46300T	NSYMM64	NSYMS64	NSYMF64	NSYMR46
500	400	150	1	66	8.7	NSYCRN54150P	NSYCRN54150	NSYCRN54150T	NSYMM54	NSYMS54	NSYMF54	NSYMR54
500	400	200	1	66	9.8	NSYCRN54200P	NSYCRN54200	NSYCRN54200T	NSYMM54	NSYMS54	NSYMF54	NSYMR54
500	400	250	1	66	11.0	NSYCRN54250P	NSYCRN54250	NSYCRN54250T	NSYMM54	NSYMS54	NSYMF54	NSYMR54
500	500	250	1	66	12.8	NSYCRN55250P	NSYCRN55250	NSYCRN55250T	NSYMM55	NSYMS55	NSYMF55	NSYMR55
600	400	150	1	66	9.3	NSYCRN64150P	NSYCRN64150	NSYCRN64150T	NSYMM64	NSYMS64	NSYMF64	NSYMR64
600	400	200	1	66	10.8	NSYCRN64200P	NSYCRN64200	NSYCRN64200T	NSYMM64	NSYMS64	NSYMF64	NSYMR64
600	400	250	1	66	12.3	NSYCRN64250P	NSYCRN64250	NSYCRN64250T	NSYMM64	NSYMS64	NSYMF64	NSYMR64
600	500	150	1	66	11.3	NSYCRN65150P	NSYCRN65150	NSYCRN65150T	NSYMM65	-	NSYMF65	NSYMR65
600	500	200	1	66	14.3	NSYCRN65200P	NSYCRN65200	NSYCRN65200T	NSYMM65	-	NSYMF65	NSYMR65
600	500	250	1	66	16.2	NSYCRN65250P	NSYCRN65250	NSYCRN65250T	NSYMM65	-	NSYMF65	NSYMR65
600	600	200	1	66	16.3	NSYCRN66200P	NSYCRN66200	NSYCRN66200T	NSYMM66	NSYMS66	NSYMF66	NSYMR66
600	600	250	1	66	18.2	NSYCRN66250P	NSYCRN66250	NSYCRN66250T	NSYMM66	NSYMS66	NSYMF66	NSYMR66
600	600	300	1	66	19.8	NSYCRN66300P	NSYCRN66300	NSYCRN66300T	NSYMM66	NSYMS66	NSYMF66	NSYMR66
600	800	300	1	66	26.0	-	NSYCRN68300	NSYCRN68300T	NSYMM86	NSYMS86	NSYMF86	NSYMR68
700	500	200	1	66	17.3	NSYCRN75200P	NSYCRN75200	NSYCRN75200T	NSYMM75	NSYMS75	NSYMF75	NSYMR75
700	500	250	1	66	19.3	NSYCRN75250P	NSYCRN75250	NSYCRN75250T	NSYMM75	NSYMS75	NSYMF75	NSYMR75
800	600	200	1	66	21.8	NSYCRN86200P	NSYCRN86200	NSYCRN86200T	NSYMM86	NSYMS86	NSYMF86	NSYMR86
800	600	250	1	66	24.8	NSYCRN86250P	NSYCRN86250	NSYCRN86250T	NSYMM86	NSYMS86	NSYMF86	NSYMR86
800	600	300	1	66	26.3	NSYCRN86300P	NSYCRN86300	NSYCRN86300T	NSYMM86	NSYMS86	NSYMF86	NSYMR86
800	800	200	1	66	29.5	NSYCRN88200P	NSYCRN88200	NSYCRN88200T	NSYMM88	-	NSYMF88	NSYMR88
800	800	300	1	66	32.5	NSYCRN88300P	NSYCRN88300	NSYCRN88300T	NSYMM88	-	NSYMF88	NSYMR88
1000	600	250	1	66	28.4	NSYCRN106250P	NSYCRN106250	NSYCRN106250T	NSYMM106	-	NSYMF106	NSYMR106
1000	600	300	1	66	30.6	NSYCRN106300P	NSYCRN106300	NSYCRN106300T	NSYMM106	-	NSYMF106	NSYMR106
1000	800	250	1	66	34.5	NSYCRN108250P	NSYCRN108250	NSYCRN108250T	NSYMM108	-	NSYMF108	NSYMR108
1000	800	300	1	66	37.4	NSYCRN108300P	NSYCRN108300	NSYCRN108300T	NSYMM108	-	NSYMF108	NSYMR108

[1] Enclosure without mounting plate.
[2] Two cable gland plates, one on the top, one on the bottom.

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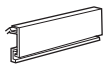
				Cable entries			
							
	Bakelite	DIN rail chassis	Aluminium vertical rails [3]	Fig.	Type of cable entry	Cable gland plate standard	Cable gland plate insulated
	-	-	-	1	0	NSYTLCRNO	-
	NSYMB32	-	-	1	B	NSYTLCRNB	-
	-	-	-	1	0	NSYTLCRNO	-
	NSYMB3025	-	NSYMDVR3	1	A	NSYTLCRNA	NSYTSACRNA
	NSYMB3025	-	NSYMDVR3	1	A	NSYTLCRNA	NSYTSACRNA
	NSYMB33	NSYMD33	NSYMDVR3	1	B	NSYTLCRNB	NSYTSACRNB
	NSYMB33	NSYMD33	NSYMDVR3	1	B	NSYTLCRNB	NSYTSACRNB
	NSYMB43	-	NSYMDVR3	1	C	NSYTLCRNC	NSYTSACRNC
	NSYMB43	-	NSYMDVR3	1	B	NSYTLCRNB	NSYTSACRNB
	NSYMB43	NSYMD43	NSYMDVR4	1	B	NSYTLCRNB	NSYTSACRNB
	NSYMB43	NSYMD43	NSYMDVR4	1	B	NSYTLCRNB	NSYTSACRNB
	-	-	NSYMDVR4	1	C	NSYTLCRNC	NSYTSACRNC
	NSYMB64	-	NSYMDVR4	1	D	NSYTLCRND	NSYTSACRND
	NSYMB64	-	NSYMDVR4	1	D	NSYTLCRND	NSYTSACRND
	NSYMB54	NSYMD54	NSYMDVR5	2	B	NSYTLCRNB	NSYTSACRNB
	NSYMB54	NSYMD54	NSYMDVR5	2	C	NSYTLCRNC	NSYTSACRNC
	NSYMB54	NSYMD54	NSYMDVR5	2	C	NSYTLCRNC	NSYTSACRNC
	-	-	NSYMDVR5	2	D	NSYTLCRND	NSYTSACRND
	NSYMB64	NSYMD64	NSYMDVR6	2	B	NSYTLCRNB	NSYTSACRNB
	NSYMB64	NSYMD64	NSYMDVR6	2	C	NSYTLCRNC	NSYTSACRNC
	NSYMB64	NSYMD64	NSYMDVR6	2	C	NSYTLCRNC	NSYTSACRNC
	NSYMB65	-	NSYMDVR6	2	B	NSYTLCRNB	NSYTSACRNB
	NSYMB65	-	NSYMDVR6	2	D	NSYTLCRND	NSYTSACRND
	NSYMB65	-	NSYMDVR6	2	D	NSYTLCRND	NSYTSACRND
	-	NSYMD66	NSYMDVR6	2	D	NSYTLCRND	NSYTSACRND
	-	NSYMD66	NSYMDVR6	2	D	NSYTLCRND	NSYTSACRND
	-	NSYMD66	NSYMDVR6	2	D	NSYTLCRND	NSYTSACRND
	-	-	NSYMDVR6	2	E	NSYTLCRNC [4]	NSYTSACRNC
	NSYMB75	NSYMD75	NSYMDVR7	2	D	NSYTLCRND	NSYTSACRND
	NSYMB75	NSYMD75	NSYMDVR7	2	D	NSYTLCRND	NSYTSACRND
	NSYMB86	NSYMD86	NSYMDVR8	2	D	NSYTLCRND	NSYTSACRND
	NSYMB86	NSYMD86	NSYMDVR8	2	D	NSYTLCRND	NSYTSACRND
	NSYMB86	NSYMD86	NSYMDVR8	2	D	NSYTLCRND	NSYTSACRND
	-	-	NSYMDVR8	2	E	NSYTLCRNC [4]	NSYTSACRNC [5]
	-	-	NSYMDVR8	2	E	NSYTLCRNC [4]	NSYTSACRNC [5]
	NSYMB106	-	NSYMDVR10	2	D	NSYTLCRND	NSYTSACRND
	NSYMB106	-	NSYMDVR10	2	D	NSYTLCRND	NSYTSACRND
	NSYMB108	NSYMD108	NSYMDVR10	2	E	NSYTLCRNC [4]	NSYTSACRNC [5]
	NSYMB108	NSYMD108	NSYMDVR10	2	E	NSYTLCRNC [4]	NSYTSACRNC [5]

[3] Order **NSYAMCSF**, **NSYMDVR12** in steel.
[4] With two holes.
[5] For flange openings type E, two **NSYTSACRNC** are required.

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CRN Steel wall-mounting enclosures

• For other dimensions, see our application offer.

				Electric distribution					
									
Dimensions									
Height (mm)	Width (mm)	Depth (mm)	Doors	DLA insulated Distribution chassis	DL metal distribution chassis	DLM metal distribution chassis	Plain cover plate for DLM	Mounting plate for DLM	Blanking plate
200	200	150	1	-	-	-	-	-	-
200	300	150	1	-	-	-	-	-	-
250	200	150	1	-	-	-	-	-	-
300	250	150	1	-	NSYDLCR18	-	-	-	-
300	250	200	1	-	NSYDLCR18	-	-	-	-
300	300	150	1	-	-	-	-	-	-
300	300	200	1	-	-	-	-	-	-
300	400	200	1	-	-	-	-	-	-
300	450	150	1	-	-	-	-	-	-
400	300	150	1	NSYDLA24G	NSYDLCR24	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G
400	300	200	1	NSYDLA24G	NSYDLCR36	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM	NSYATP72G
400	400	200	1	-	NSYDLCR24 (1)	-	-	-	-
400	600	250	1	-	NSYDLCR36 (1)	-	-	-	-
400	600	300	1	-	-	-	-	-	-
500	400	150	1	NSYDLA48G	-	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
500	400	200	1	NSYDLA48G	-	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
500	400	250	1	NSYDLA48G	NSYDLCR48	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
500	500	250	1	-	NSYDLCR48 (1)	-	-	-	-
600	400	150	1	NSYDLA48PG	-	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
600	400	200	1	NSYDLA48PG	-	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
600	400	250	1	NSYDLA48PG	NSYDLCR64	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM	NSYATP72G
600	500	150	1	-	NSYDLCR64	-	-	-	-
600	500	200	1	-	-	-	-	-	-
600	500	250	1	-	NSYDLCR88	-	-	-	-
600	600	200	1	-	NSYDLCR88	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
600	600	250	1	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
600	600	300	1	-	-	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
600	800	300	1	-	-	-	-	-	-
700	500	200	1	NSYDLA66G / NSYDLA88G	-	NSYDLM66 / NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G
700	500	250	1	NSYDLA66G / NSYDLA88G	-	NSYDLM66 / NSYDLM88	NSYCTL500DLM	NSYPMP500DLM	NSYATP72G
800	600	200	1	NSYDLA84G / NSYDLA112G	NSYDLCR110	NSYDLM84 / NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
800	600	250	1	NSYDLA84G / NSYDLA112G	-	NSYDLM84 / NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
800	600	300	1	NSYDLA84G / NSYDLA112G	NSYDLCR135	NSYDLM84 / NSYDLM112	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
800	800	200	1	-	-	-	-	-	-
800	800	300	1	-	-	-	-	-	-
1000	600	250	1	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
1000	600	300	1	-	-	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM	NSYATP72G
1000	800	250	1	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G
1000	800	300	1	NSYDLA234G	-	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM	NSYATP72G

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Electronic and network		Plinths (100 mm)		Plinths (200 mm)		Installation system		
								
Fixed 19'' rack	Swing 19'' rack	Single plinths side plate [1]	Single plinths front plate [1]	Single plinths side plate [1]	Single plinths front plate [1]	Inner door	Step slides	Wall-fixing lugs
-	-	-	-	-	-	-	-	NSYPFCR
-	-	-	-	-	-	-	-	NSYPFCR
-	-	-	-	-	-	-	-	NSYPFCR
-	-	-	-	-	-	-	-	NSYPFCR
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR
-	-	-	-	-	-	-	-	NSYPFCR
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR
-	-	-	-	-	-	-	-	NSYPFCR
-	-	-	-	-	-	NSYPIN43	-	NSYPFCR
-	-	-	-	-	-	NSYPIN43	NSYSDCR200	NSYPFCR
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR
NSYVDM8UF	NSYVDM7UP	-	-	-	-	-	NSYSDCR250	NSYPFCR
NSYVDM8UF	NSYVDM7UP	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	NSYSDCR300	NSYPFCR
-	-	-	-	-	-	NSYPIN54	-	NSYPFCR
-	-	-	-	-	-	NSYPIN54	NSYSDCR200	NSYPFCR
-	-	-	-	-	-	NSYPIN54	NSYSDCR250	NSYPFCR
-	-	-	-	-	-	-	NSYSDCR250	NSYPFCR
-	-	-	-	-	-	NSYPIN64	-	NSYPFCR
-	-	-	-	-	-	NSYPIN64	NSYSDCR200	NSYPFCR
-	-	-	-	-	-	NSYPIN64	NSYSDCR250	NSYPFCR
-	-	-	-	-	-	-	-	NSYPFCR
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR
-	-	-	-	-	-	-	NSYSDCR250	NSYPFCR
NSYVDM12UF	NSYVDM11UP	-	-	-	-	-	NSYSDCR200	NSYPFCR
NSYVDM12UF	NSYVDM11UP	-	-	-	-	-	NSYSDCR250	NSYPFCR
NSYVDM12UF	NSYVDM11UP	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	NSYSDCR300	NSYPFCR
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	NSYSDCR300	NSYPFCR
-	-	-	-	-	-	NSYPIN75	NSYSDCR200	NSYPFCR
-	-	-	-	-	-	NSYPIN75	NSYSDCR250	NSYPFCR
NSYVDM17UF	-	-	-	-	-	NSYPIN86	NSYSDCR200	NSYPFCR
NSYVDM17UF	NSYVDM16UP	-	-	-	-	NSYPIN86	NSYSDCR250	NSYPFCR
NSYVDM17UF	NSYVDM16UP	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	NSYPIN86	NSYSDCR300	NSYPFCR
-	-	-	-	-	-	-	NSYSDCR200	NSYPFCR
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	NSYSDCR300	NSYPFCR
NSYVDM21UF	NSYVDM20UP	-	-	-	-	NSYPIN106	NSYSDCR250	NSYPFCR
NSYVDM21UF	NSYVDM20UP	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	NSYPIN106	NSYSDCR300	NSYPFCR
-	NSYVDM20U8P	-	-	-	-	NSYPIN108	NSYSDCR250	NSYPFCR
-	NSYVDM20U8P	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	NSYPIN108	NSYSDCR300	NSYPFCR

[1] To install the plinth to a wall-mounting enclosure, order ref. **NSYAPFWM**.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

CRN Steel wall-mounting enclosures

			Post-fixing	Supporting pole		Canopies	Support bracket
							
Dimensions							
Height (mm)	Width (mm)	Depth (mm)	Post-fixing device	Supporting pole	Coupling plates	Canopies	Support bracket for enclosure with anti-tilt kit and reinforcement1400 mm [2]
200	200	150	-	-	-	-	NSYCOCNS1400
200	300	150	-	-	-	-	NSYCOCNS1400
250	200	150	-	-	-	NSYTJ2015	NSYCOCNS1400
300	250	150	-	NSYCOCN80	NSYCHCOA	NSYTJ2515	NSYCOCNS1400
300	250	200	-	NSYCOCN80	NSYCHCOA	NSYTJ2520	NSYCOCNS1400
300	300	150	NSYSFPSC30	NSYCOCN80	NSYCHCOB	NSYTJ3015	NSYCOCNS1400
300	300	200	NSYSFPSC30	NSYCOCN80	NSYCHCOB	NSYTJ3020	NSYCOCNS1400
300	400	200	NSYSFPSC40	NSYCOCN80	NSYCHCOC	NSYTJ4020	NSYCOCNS1400
300	450	150	-	-	-	-	NSYCOCNS1400
400	300	150	NSYSFPSC30	NSYCOCN80	NSYCHCOB	NSYTJ3015	NSYCOCNS1400
400	300	200	NSYSFPSC30	NSYCOCN80	NSYCHCOB	NSYTJ3020	NSYCOCNS1400
400	400	200	NSYSFPSC40	NSYCOCN80	NSYCHCOC	NSYTJ4020	NSYCOCNS1400
400	600	250	NSYSFPSC60	NSYCOCN80	NSYCHCOD	NSYTJ6025	NSYCOCNS1400
400	600	300	NSYSFPSC60	NSYCOCN80	NSYCHCOD	NSYTJ6030	NSYCOCNS1400
500	400	150	NSYSFPSC40	NSYCOCN80	NSYCHCOB	NSYTJ4015	NSYCOCNS1400
500	400	200	NSYSFPSC40	NSYCOCN80	NSYCHCOC	NSYTJ4020	NSYCOCNS1400
500	400	250	NSYSFPSC40	NSYCOCN80	NSYCHCOC	NSYTJ4025	NSYCOCNS1400
500	500	250	NSYSFPSC50	NSYCOCN80	NSYCHCOD	NSYTJ5025	NSYCOCNS1400
600	400	150	NSYSFPSC40	NSYCOCN80	NSYCHCOB	NSYTJ4015	NSYCOCNS1400
600	400	200	NSYSFPSC40	NSYCOCN80	NSYCHCOC	NSYTJ4020	NSYCOCNS1400
600	400	250	NSYSFPSC40	NSYCOCN80	NSYCHCOC	NSYTJ4025	NSYCOCNS1400
600	500	150	NSYSFPSC50	NSYCOCN80	NSYCHCOB	NSYTJ5015	NSYCOCNS1400
600	500	200	NSYSFPSC50	NSYCOCN80	NSYCHCOD	NSYTJ5020	NSYCOCNS1400
600	500	250	NSYSFPSC50	NSYCOCN80	NSYCHCOD	NSYTJ5025	NSYCOCNS1400
600	600	200	NSYSFPSC60	NSYCOCN80	NSYCHCOD	NSYTJ6020	NSYCOCNS1400
600	600	250	NSYSFPSC60	NSYCOCN80	NSYCHCOD	NSYTJ6025	NSYCOCNS1400
600	600	300	NSYSFPSC60	NSYCOCN80	NSYCHCOD	NSYTJ6030	NSYCOCNS1400
600	800	300	NSYSFPSC80	-	NSYCHCOC [1]	NSYTJ8030	NSYCOCNS1400
700	500	200	NSYSFPSC50	NSYCOCN80	NSYCHCOD	NSYTJ5020	NSYCOCNS1400
700	500	250	NSYSFPSC50	NSYCOCN80	NSYCHCOD	NSYTJ5025	NSYCOCNS1400
800	600	200	NSYSFPSC60	NSYCOCN80	NSYCHCOD	NSYTJ6020	NSYCOCNS1400
800	600	250	NSYSFPSC60	NSYCOCN80	NSYCHCOD	NSYTJ6025	NSYCOCNS1400
800	600	300	NSYSFPSC60	NSYCOCN80	NSYCHCOD	NSYTJ6030	NSYCOCNS1400
800	800	200	NSYSFPSC80	-	NSYCHCOC [1]	NSYTJ8020	NSYCOCNS1400
800	800	300	NSYSFPSC80	-	NSYCHCOC [1]	NSYTJ8030	NSYCOCNS1400
1000	600	250	-	NSYCOCN80	NSYCHCOD	NSYTJ6025	NSYCOCNS1400
1000	600	300	-	NSYCOCN80	NSYCHCOD	NSYTJ6030	NSYCOCNS1400
1000	800	250	-	-	NSYCHCOC [1]	NSYTJ8025	NSYCOCNS1400
1000	800	300	-	-	NSYCHCOC [1]	NSYTJ8030	NSYCOCNS1400

[1] 2 coupling plates and supporting poles are required.
[2] Available in version 1800 mm: Ref. NSYCOCNS1800.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

CRNG Steel wall-mounting enclosures

- With three-point locking system
- Ingress protection rating: IP66 for the single-door enclosures and IP55 for the double-door enclosures, according to IEC 60529
- For other dimensions, see our application offer.
- Enclosure without mounting plate..
- In inverted use of silkscreened mounting plates, the marking is inverted.

Dimensions						Enclosures		Mounting plates			
											
Height (mm)	Width (mm)	Depth (mm)	Doors	IP	Weight (kg)	with plain door, without mounting plate	with glazed door, with mounting plate	Plain	Silkscreened	Microperforated	Telequick
800	600	400	1	66	30.0	**NSYCRNG86400**	**NSYCRNG86400T**	**NSYMM86**	**NSYMS86**	**NSYMF86**	**NSYMR86**
800	1000	300	2	55	40.0	**NSYCRNG810300D**	-	**NSYMM108**	-	**NSYMF108**	**NSYMR810**
800	1200	300	2	55	46.0	**NSYCRNG812300D**	-	**NSYMM128**	-	**NSYMF128**	2x **NSYMR86** (2)
1000	600	400	1	66	36.0	**NSYCRNG106400**	**NSYCRNG106400T**	**NSYMM106**	-	**NSYMF106**	**NSYMR106**
1000	800	400	1	66	43.0	**NSYCRNG108400**	**NSYCRNG108400T**	**NSYMM108**	-	**NSYMF108**	**NSYMR108**
1000	1000	300	2 (1)	55	47.0	**NSYCRNG1010300D**	**NSYCRNG1010300T**	**NSYMM1010**	-	**NSYMF1010**	**NSYMR1010** (3)
1000	1200	300	2	55	55.0	**NSYCRNG1012300D**	-	**NSYMM1210**	-	**NSYMF1210**	**NSYMR1012** (3)
1000	1200	400	2	55	60.0	**NSYCRNG1012400D**	-	**NSYMM1210**	-	**NSYMF1210**	**NSYMR1012** (3)
1200	600	300	1	66	37.0	**NSYCRNG126300**	**NSYCRNG126300T**	**NSYMM126**	-	**NSYMF126**	**NSYMR126**
1200	600	400	1	66	42.0	**NSYCRNG126400**	**NSYCRNG126400T**	**NSYMM126**	-	**NSYMF126**	**NSYMR126**
1200	800	300	1	66	45.0	**NSYCRNG128300**	**NSYCRNG128300T**	**NSYMM128**	-	**NSYMF128**	**NSYMR128**
1200	800	400	1	66	50.0	**NSYCRNG128400**	**NSYCRNG128400T**	**NSYMM128**	-	**NSYMF128**	**NSYMR128**
1200	1000	300	2	55	56.0	**NSYCRNG1210300D**	-	**NSYMM1210**	-	**NSYMF1210**	**NSYMR1210** (3)
1200	1000	400	2	55	61.0	**NSYCRNG1210400D**	-	**NSYMM1210**	-	**NSYMF1210**	**NSYMR1210** (3)
1200	1200	300	2	55	64.0	**NSYCRNG1212300D**	-	**NSYMM1212**	-	2x **NSYMF126** (2)	2x **NSYMR126** (2)
1200	1200	400	2	55	90.0	**NSYCRNG1212400D**	-	**NSYMM1212**	-	2x **NSYMF126** (2)	2x **NSYMR126** (2)
1400	1000	300	2	55	80.0	**NSYCRNG1410300D**	-	**NSYMM1410**	-	-	**NSYMR1410** (3)

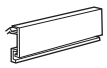
Dimensions									Cable entries				
													
Height (mm)	Width (mm)	Depth (mm)	Doors	IP	Weight (kg)	Bakelite	DIN rail chassis	Aluminium vertical rails (4)	Fig.	Type of cable entry	Cable gland plate standard	Cable gland plate with FL cut-out	FlexiCable (6)
800	600	400	1	66	30.0	**NSYMB86**	**NSYMD86**	**NSYMDVR8**	3	G	**NSYTLG**	**NSYTLG2FL**	**NSYTLGME**
800	1000	300	2	55	40.0	-	-	**NSYMDVR8**	4	H	**NSYTLE**	**NSYTLEFL**	2x **NSYTLEME**
800	1200	300	2	55	46.0	-	-	**NSYMDVR8**	4	H	**NSYTLE**	**NSYTLEFL**	2x **NSYTLEME**
1000	600	400	1	66	36.0	**NSYMB106**	-	**NSYMDVR10**	3	G	**NSYTLG**	**NSYTLG2FL**	**NSYTLGME**
1000	800	400	1	66	43.0	**NSYMB108**	**NSYMD108**	**NSYMDVR10**	4	H	**NSYTLD**	**NSYTLDFL**	2x **NSYTLDME**
1000	1000	300	2 (1)	55	47.0	**NSYMB1210**	-	**NSYMDVR10**	4	H	**NSYTLE**	**NSYTLEFL**	2x **NSYTLEME**
1000	1200	300	2	55	55.0	**NSYMB1210**	-	**NSYMDVR10**	4	H	**NSYTLE**	**NSYTLEFL**	2x **NSYTLEME**
1000	1200	400	2	55	60.0	-	-	**NSYMDVR10**	4	H	**NSYTLE**	**NSYTLEFL**	2x **NSYTLEME**
1200	600	300	1	66	37.0	-	-	**NSYMDVR12**	3	G	**NSYTLG**	**NSYTLG2FL**	**NSYTLGME**
1200	600	400	1	66	42.0	-	-	**NSYMDVR12**	3	G	**NSYTLG**	**NSYTLG2FL**	**NSYTLGME**
1200	800	300	1	66	45.0	-	**NSYMD128**	**NSYMDVR12**	4	H	**NSYTLD**	**NSYTLDFL**	2x **NSYTLDME**
1200	800	400	1	66	50.0	-	**NSYMD128**	**NSYMDVR12**	4	H	**NSYTLD**	**NSYTLDFL**	2x **NSYTLDME**
1200	1000	300	2	55	56.0	**NSYMB1210**	-	**NSYMDVR12**	4	H	**NSYTLE**	**NSYTLEFL**	2x **NSYTLEME**
1200	1000	400	2	55	61.0	**NSYMB1210**	-	**NSYMDVR12**	4	H	**NSYTLE**	**NSYTLEFL**	2x **NSYTLEME**
1200	1200	300	2	55	64.0	-	-	**NSYMDVR12**	4	H	**NSYTLE**	**NSYTLEFL**	2x **NSYTLEME**
1200	1200	400	2	55	90.0	-	-	**NSYMDVR12**	4	H	**NSYTLE**	**NSYTLEFL**	2x **NSYTLEME**
1400	1000	300	2	55	80.0	-	-	-	4	H	**NSYTLE**	**NSYTLEFL**	2x **NSYTLEME**

(1) Except glazed door in single door.
(2) Order **NSYCRNGSDR** to mount double mounting plate.
(3) Ref. **NSYEMR** mandatory.
(4) Order **NSYAMCSF**, **NSYMDVR12** in steel.
(5) Cable entry FlexiCable IP55

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

CRNG Steel wall-mounting enclosures

- With three-point locking system
- For other dimensions, see our application offer.

Dimensions				Electric distribution					
									
Height (mm)	Width (mm)	Depth (mm)	Doors	DLA insulated distribution chassis	DL metal distribution chassis	DLM metal distribution chassis	Plain cover plate for DLM	Mounting plate for DLM	Blanking plate
800	600	400	1	**NSYDLA84G** / **NSYDLA112G**	-	**NSYDLM84** / **NSYDLM112**	**NSYCTL600DLM**	**NSYPMP600DLM**	**NSYATP72G**
800	1000	300	2	-	-	-	-	-	-
800	1200	300	2	-	-	-	-	-	-
1000	600	400	1	-	-	**NSYDLM168**	**NSYCTL600DLM**	**NSYPMP600DLM**	**NSYATP72G**
1000	800	400	1	**NSYDLA234G**	-	**NSYDLM240**	**NSYCTL800DLM**	**NSYPMP800DLM**	**NSYATP72G**
1000	1000	300	2	-	-	-	-	-	-
1000	1200	300	2	-	-	-	-	-	-
1000	1200	400	2	-	-	-	-	-	-
1200	600	300	1	-	-	-	-	-	-
1200	600	400	1	-	-	-	-	-	-
1200	800	300	1	-	-	-	-	-	-
1200	800	400	1	-	-	-	-	-	-
1200	1000	300	2	-	-	-	-	-	-
1200	1000	400	2	-	-	-	-	-	-
1200	1200	300	2	-	-	-	-	-	-
1200	1200	400	2	-	-	-	-	-	-
1400	1000	300	2	-	-	-	-	-	-

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Electronic and network		Plinths (100 mm)		Plinths (200 mm)		Installation system		
								
Fixed 19'' rack	Swing 19'' rack	Single plinths side plate [1]	Single plinths front plate [1]	Single plinths side plate [1]	Single plinths front plate [1]	Inner door	Step slides	Wall-fixing lugs
NSYVDM17UF	NSYVDM16UP	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	NSYPIN86	NSYSDCR400	NSYAEFPFSC
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	NSYSDCR300	NSYAEFPFSC
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	NSYSDCR300 [2]	NSYAEFPFSC
NSYVDM21UF	NSYVDM20UP	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	NSYPIN106	NSYSDCR400	NSYAEFPFSC
-	NSYVDM20U8P	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	NSYPIN108	NSYSDCR400	NSYAEFPFSC
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	NSYSDCR300	NSYAEFPFSC
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	NSYSDCR300 [2]	NSYAEFPFSC
-	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	NSYSDCR400 [2]	NSYAEFPFSC
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	NSYPIN126	NSYSDCR300	NSYAEFPFSC
-	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	NSYPIN126	NSYSDCR400	NSYAEFPFSC
-	NSYVDM25U8P	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	NSYPIN128	NSYSDCR300	NSYAEFPFSC
-	NSYVDM25U8P	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	NSYPIN128	NSYSDCR400	NSYAEFPFSC
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	NSYSDCR300	NSYAEFPFSC
-	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF10100	NSYSPF10200	-	NSYSDCR400	NSYAEFPFSC
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	NSYSDCR300 [2]	NSYAEFPFSC
-	-	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	NSYSDCR400 [2]	NSYAEFPFSC
-	-	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	NSYSDCR300	NSYAEFPFSC

[1] To install the plinth to a wall-mounting enclosure, order ref. **NSYAPFWM**.

[2] Except for double mounting plate, order in addition ref. **NSYSDRSDCR300** (D300) or **NSYSDRSDCR400** (D400).

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

CRNG Steel wall-mounting enclosures

- With three-point locking system
- For other dimensions, see our application offer.

Dimensions			Post-fixing	Canopies	Floor stand kit for WM		Kit for heavy loads
							
Height (mm)	Width (mm)	Depth (mm)	Post-fixing device	Canopies	300 mm	400 mm	Kit for heavy loads [1]
800	600	400	**NSYSFPSC60**	**NSYTJ6040**	-	-	**NSYAEFAHLBSC**
800	1000	300	-	**NSYTJ10030**	**NSYWMK33**	**NSYWMK34**	**NSYAEFAHLBSC**
800	1200	300	-	**NSYTJ12030**	**NSYWMK33**	**NSYWMK34**	**NSYAEFAHLBSC**
1000	600	400	-	**NSYTJ6040**	-	-	**NSYAEFAHLBSC**
1000	800	400	-	**NSYTJ8040**	**NSYWMK43**	**NSYWMK44**	**NSYAEFAHLBSC**
1000	1000	300	-	**NSYTJ10030**	**NSYWMK33**	**NSYWMK34**	**NSYAEFAHLBSC**
1000	1200	300	-	**NSYTJ12030**	**NSYWMK33**	**NSYWMK34**	**NSYAEFAHLBSC**
1000	1200	400	-	**NSYTJ12040**	**NSYWMK43**	**NSYWMK44**	**NSYAEFAHLBSC**
1200	600	300	-	**NSYTJ6030**	-	-	**NSYAEFAHLBSC**
1200	600	400	-	**NSYTJ6040**	-	-	**NSYAEFAHLBSC**
1200	800	300	-	**NSYTJ8030**	**NSYWMK33**	**NSYWMK34**	**NSYAEFAHLBSC**
1200	800	400	-	**NSYTJ8040**	**NSYWMK43**	**NSYWMK44**	**NSYAEFAHLBSC**
1200	1000	300	-	**NSYTJ10030**	**NSYWMK33**	**NSYWMK34**	**NSYAEFAHLBSC**
1200	1000	400	-	**NSYTJ10040**	**NSYWMK43**	**NSYWMK44**	**NSYAEFAHLBSC**
1200	1200	300	-	**NSYTJ12030**	**NSYWMK33**	**NSYWMK34**	**NSYAEFAHLBSC**
1200	1200	400	-	**NSYTJ12040**	**NSYWMK43**	**NSYWMK44**	**NSYAEFAHLBSC**
1400	1000	300	-	**NSYTJ10030**	**NSYWMK33**	**NSYWMK34**	**NSYAEFAHLBSC**

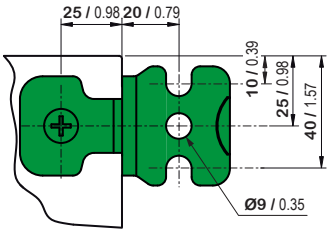
[1] Order the **NSYAEFPFSC** wall-fixing brackets separetly.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel wall-mounting enclosures

Wall-fixing lugs for Spacial CRN and CRNG enclosures

- Set of 4 wall-fixing lugs.
- Mounted directly on the rear of the enclosure, either in horizontal or vertical position.
- Wall-enclosure separation of 10 mm.
- Maximum load: 250 kg
- Do not use for dynamic loads.
- You will find the weights of the Spacial CRN - CRNG enclosures without mounting plate in the selection guide.



CRN Wall-fixing lugs for Spacial CRN enclosures


NSYPFCR

- Material: Passivated zinc-coated steel

Supply:
Supplied with fixing screws and pre-mounted sealing gaskets

Characteristics	References
Set of 4 wall fixing lugs for Spacial CRN enclosure	**NSYPFCR**

CRN Wall-fixing lugs for Spacial CRN enclosures


NSYPFCX

- Material: Stainless-steel AISI 304L

Supply:
Supplied with fixing screws and pre-mounted sealing gaskets

Characteristics	References
Set of 4 wall fixing brackets in stainless steel AISI 304L	**NSYPFCX**

CRN Wall-fixing lugs for Spacial CRN enclosures


NSYPFC2X

- Material: Stainless-steel AISI 316L

Supply:
Supplied with fixing screws and pre-mounted sealing gaskets

Characteristics	References
Set of 4 wall fixing brackets in stainless steel AISI 316L	**NSYPFC2X**

CRNG Wall-fixing lugs for Spacial CRNG enclosures


NSYAEFPFSC

- Material: Passivated zinc-coated steel

Supply:
Supplied with fixing screws and pre-mounted sealing gaskets

Characteristics	References
Set of 4 wall fixing lugs, made of steel	**NSYAEFPFSC**

CRNG Wall-fixing lugs for Spacial CRNG enclosures


NSYAEFPFXSC

- Material: Stainless-steel AISI 304L

Supply:
Supplied with fixing screws and pre-mounted sealing gaskets

Characteristics	References
Set of 4 wall fixing lugs, made of stainless steel AISI 304L	**NSYAEFPFXSC**

CRNG Covers for wall fixing brackets



- Material: PA

Supply:
Kit of 4 covers

Characteristics	References
Set of 4 covers for wall fixing brackets for Spacial S3D/CRN	**NSYCAEFPF**

CRNG Kit for heavy loads


NSYAEFAHLBSC

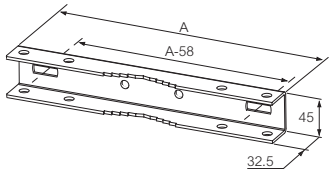
- Kit made up of 2 reinforcement pieces.
- To be mounted before installing the mounting plate in top position with the standard lugs (to be ordered separately).
- Material: Passivated zinc-coated steel
- Maximum load: 400 kg

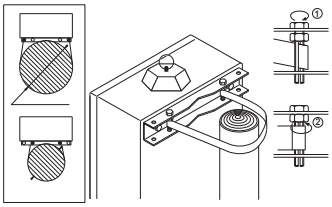
Supply:
Kit composed with 2 brackets

Characteristics	References
Kit for heavy load	**NSYAEFAHLBSC**

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Post-fixing device for Spacial steel enclosure





- For indoor installations on posts with a maximum circumference of 675 mm (minimum diameter 150 mm and maximum diameter 215 mm).
- Rail fixed to the inserts in the rear of the enclosure with 8-mm screws.
- They allow the mounting of protection canopies.
- Material: Galvanised steel
- Maximum load: 100 kg

For more details see page 68



NSYSFPSC30

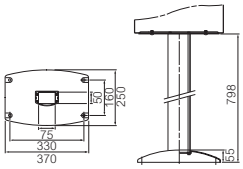
Characteristics	Width (mm)	A (mm)	References
Post-fixing device for Spacial steel enclosure	300	295	**NSYSFPSC30**
Post-fixing device for Spacial steel enclosure	400	395	**NSYSFPSC40**
Post-fixing device for Spacial steel enclosure	500	495	**NSYSFPSC50**
Post-fixing device for Spacial steel enclosure	600	595	**NSYSFPSC60**
Post-fixing device for Spacial steel enclosure	800	795	**NSYSFPSC80**

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Steel wall-mounting enclosures

Support pillar

- The support pillar is fixed directly to the bottom face of the Spacial steel enclosure by means of an adapter plate. The latter, to be ordered in addition to the pillar, replaces the cable gland plate.
- Overall height of the support foot: 800 mm.
- Mounting possible on all enclosures with dimensions up to 600 x 400 x 250 mm (except 200 x 200 x 150 and 250 x 200 x 150 enclosures).
- Material: Extruded aluminium
- Finish: Epoxy-polyester paint
- Colour: RAL 7035 grey




NSYCOCN80

Characteristics	Height (mm)	References
Support pillar	800	**NSYCOCN80**

Support pillar adaptation plate

- Description: Plate for fixing the support pillar on the enclosure.
- This plate replaces the cable gland plate delivered with the enclosure.
- Material: Steel
- Finish: Polyester powder
- Colour: RAL 7035 grey

For more details see page 66


NSYCHCOA

Characteristics	For enclosure width (mm)	For enclosure depth (mm)	To be coupled with cable entry	References
Support pillar adaptation plate	250	150-200	A	**NSYCHCOA**
Support pillar adaptation plate	300-400-450-500	150-200	B	**NSYCHCOB**
Support pillar adaptation plate	400	200-250	C	**NSYCHCOC**
Support pillar adaptation plate	500-600	200-250-300	D	**NSYCHCOD**

Support bracket for enclosure with anti-tilt kit and reinforcement

- The support bracket is used when the enclosure cannot be hung from a wall or a post.
- Suitable for outdoor use.
- Maximum enclosure dimensions: 1000 x 800 x 300 mm.
- Floor attachment by standard M12 fastenings.
- Material: Steel
- Finish: Epoxy-polyester paint
- Colour: RAL 7035 grey
- Maximum load: 120 kg


NSYCOCNS1400

Characteristics	Height (mm)	References
Support bracket for enclosure with anti-tilt kit and reinforcement	1400	**NSYCOCNS1400**
Support bracket for enclosure with anti-tilt kit and reinforcement	1800	**NSYCOCNS1800**

Floor Stand Kit for wall-mounting enclosure

- Set of 2 feet, elevating wall-mounting enclosures.
- Cut-outs needed on enclosure – drilling template provided with the kit.
- Material: Steel
- Finish: Epoxy-polyester paint
- Colour: RAL 7035 grey
- Thickness: Sides: 2.5 mm, Base: 3 mm
- Maximum load: 250 kg
- Compatible with Spacial S3D, S3DC and CRNG enclosures.
- Enclosure depth 300 mm: When enclosures are equipped with a cable gland plate, it only fits with enclosures of width 800, 1000 and 1200 mm, except model H 600 x W 800 x D 300 mm.
- Enclosure depth 400 mm: When enclosures are equipped with a cable gland plate, it does not fit with enclosures of width 600 mm.

Supply:
2 platform feet (right and left) and fixing elements


NSYWMK33

Characteristics	Enclosure depth (mm)	(Inches)	Foot height (mm)	(Inches)	References
Floor stand for Spacial S3D	300	12	300	12	**NSYWMK33**
Floor stand for Spacial S3D	400	16	300	12	**NSYWMK43**
Floor stand for Spacial S3D	300	12	450	18	**NSYWMK34**
Floor stand for Spacial S3D	400	16	450	18	**NSYWMK44**

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Steel wall-mounting enclosures

Front and rear plinths

Stainless-steel plinths (standard plinths page 131, ventilated plinths page 413) are compatible with steel wall-mounting S3D enclosures using an earthing cable reference **NSYEL226D13** (description page 295) to be ordered separatly.

- The front and rear of the plinth consists of 4 corners with 2 or 4 panels.
- Material: Folded sheet steel, corner with a thickness of 25/10e mm
- Finish: Structured finish, epoxy-polyester powder
- Colour: RAL 7022 grey
- Ingress protection rating: IP30 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Installation:
It is necessary to order separately the plinth fixing kit (ref. **NSYAPFWM**) composed by fixing hardware and drilling jig

Note:
For more information, see page 86

Supply:
Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements. Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements


NSYSPF6100


NSYSPF6200

Characteristics	Width (mm)	Height (mm)	References
Front plinths for Spacial	600	100	**NSYSPF6100**
Front plinths for Spacial	800	100	**NSYSPF8100**
Front plinths for Spacial	1000	100	**NSYSPF10100**
Front plinths for Spacial	1200	100	**NSYSPF12100**
Front plinths for Spacial	600	200	**NSYSPF6200**
Front plinths for Spacial	800	200	**NSYSPF8200**
Front plinths for Spacial	1000	200	**NSYSPF10200**
Front plinths for Spacial	1200	200	**NSYSPF12200**

Plinth side panels

- They are fixed to the corner of the plinth by 2 fixing screws.
- Folded sheet steel
- Finish: Structured finish, epoxy-polyester powder
- Colour: RAL 7022 grey
- Ingress protection rating: IP30 according to IEC 60529
- Mechanical protection rating: Mechanical protection rating

Supply:
Height 100 mm: 2 side panels, 4 corner covers and fixing elements. Height 200 mm:
4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements


NSYSPS3100SD


NSYSPS3200SD

Characteristics	Depth (mm)	Height (mm)	References
Side plinths for Spacial	300	100	**NSYSPS3100SD**
Side plinths for Spacial	400	100	**NSYSPS4100SD**
Side plinths for Spacial	300	200	**NSYSPS3200SD**
Side	400	200	**NSYSPS4200SD**

Plinth

- Material: Stainless-steel, AISI 304L or AISI 316L
- Finish: Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion


NSYSPFX8100

Characteristics	Width	Height (mm)	References
Plinth height 100 mm, Kit (4 corners + front and back), AISI 304L	800	100	**NSYSPFX8100**
Plinth height 100 mm, Kit (4 corners + front and back), AISI 304L	1000	100	**NSYSPFX10100**
Plinth height 100 mm, Kit (4 corners + front and back), AISI 316L	800	100	**NSYSPFX8100H**
Plinth height 100 mm, Kit (4 corners + front and back), AISI 316L	1000	100	**NSYSPFX10100H**


NSYSPSX3100

Characteristics	Depth	Height (mm)	References
Plinth height 100 mm, Set of 2 side panels, AISI 304L	300	100	**NSYSPSX3100**
Plinth height 100 mm, Set of 2 side panels, AISI 316L	300	100	**NSYSPSX3100H**


NSYSPFX8200

Characteristics	Width	Height (mm)	References
Plinth height 200 mm, Kit (4 corners + front and back), AISI 304L	800	200	**NSYSPFX8200**
Plinth height 200 mm, Kit (4 corners + front and back), AISI 304L	1000	200	**NSYSPFX10200**
Plinth height 200 mm, Kit (4 corners + front and back), AISI 316L	800	200	**NSYSPFX8200H**
Plinth height 200 mm, Kit (4 corners + front and back), AISI 316L	1000	200	**NSYSPFX10200H**


NSYSPSX3200

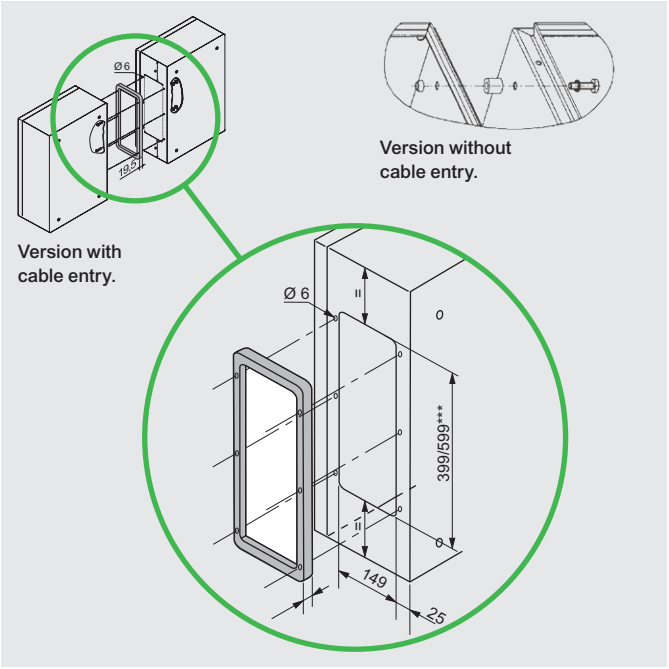
Characteristics	Depth	Height (mm)	References
Plinth height 200 mm, Set of 2 side panels (x2), AISI 304L	300	200	**NSYSPSX3200**
Plinth height 200 mm, Set of 2 side panels (x2), AISI 316L	300	200	**NSYSPSX3200H**

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Steel wall-mounting enclosures

Coupling of Spacial steel enclosures

- Available in 2 versions:
  Coupling version without cable entry.
  Version with coupling frame allowing the entry of cables.
- Separation of 17 mm between 2 coupled enclosures, allowing full opening of the doors.
- Allows lateral coupling of 2 enclosures.
- These frames allow the door to open to 120°.
- Material: Polyester charged with fibreglass, self-extinguishing
- Ingress protection rating: IP66 according to IEC 60529



Supply:
Kit made up of 4 spacers and their fixings. Mounting by screws, included

Coupling spacers


NSYAEUBUSC

Characteristics	References
Batch of 4 coupling spacers	**NSYAEUBUSC**

Coupling frame


NSYAEUBU41SC

Characteristics	References
Coupling frame, 435 x 185 mm	**NSYAEUBU41SC**
Coupling frame, 635 x 185 mm	**NSYAEUBU61SC**

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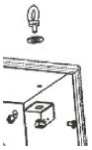
Steel wall-mounting enclosures

Eyebolts



NSYAELYTCRG8

- Set of two M8 eyebolts. They are fixed directly to the body of the floor-standing enclosure. Cannot be installed with the canopy in place or if it is planned to put one.
- Material: Zinc-coated moulded steel
- Maximum load: 200 kg per enclosure when slinging at 60°



Supply:
Reinforcing brackets attached to the rings (these brackets also act as a drilling template)

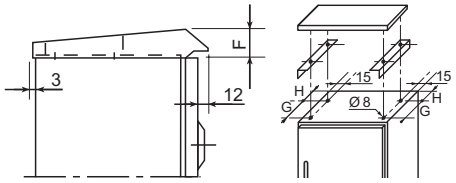
Characteristics	References
Batch of 2 M8 eyebolts	**NSYAELYTCRG8**

Protection canopy



NSYTJ2015

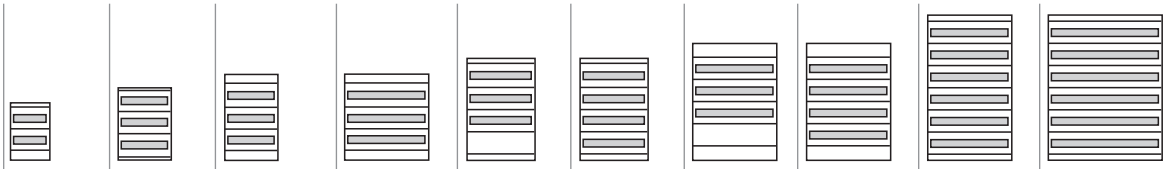
- Direct fixing to the body of the enclosure by 4 M6 screws.
- To be used for all outdoor installations.
- Material: Sheet steel
- Finish: Epoxy-polyester paint
- Colour: RAL 7035 grey



Supply:
Delivered with the fixings required for installation

Characteristics	Width (mm)	Depth (mm)	F (mm)	G (mm)	H (mm)	References
Protection canopy	200	150	36	75	23	**NSYTJ2015**
Protection canopy	250	150	36	75	23	**NSYTJ2515**
Protection canopy	300	150	36	75	23	**NSYTJ3015**
Protection canopy	400	150	36	75	23	**NSYTJ4015**
Protection canopy	500	150	36	75	23	**NSYTJ5015**
Protection canopy	500	200	36	130	23	**NSYTJ5020**
Protection canopy	600	200	36	130	23	**NSYTJ6020**
Protection canopy	250	200	36	130	23	**NSYTJ2520**
Protection canopy	300	200	36	130	23	**NSYTJ3020**
Protection canopy	400	200	36	130	23	**NSYTJ4020**
Protection canopy	800	200	36	130	23	**NSYTJ8020**
Protection canopy	400	250	42	150	48	**NSYTJ4025**
Protection canopy	500	250	42	150	48	**NSYTJ5025**
Protection canopy	600	250	42	150	48	**NSYTJ6025**
Protection canopy	800	250	42	150	48	**NSYTJ8025**
Protection canopy	600	300	42	200	48	**NSYTJ6030**
Protection canopy	800	300	42	200	48	**NSYTJ8030**
Protection canopy	1000	300	42	200	48	**NSYTJ10030**
Protection canopy	1200	300	42	200	48	**NSYTJ12030**
Protection canopy	600	400	42	300	48	**NSYTJ6040**
Protection canopy	800	400	42	300	48	**NSYTJ8040**
Protection canopy	1000	400	42	300	48	**NSYTJ10040**
Protection canopy	1200	400	42	300	48	**NSYTJ12040**

Number of modules per chassis** (every 18 mm)



Chassis reference	NSYDLM24	NSYDLM48	NSYDLM48P	NSYDLM84P	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n. of modules	24	48	48	84	66	88	84	112	168	234

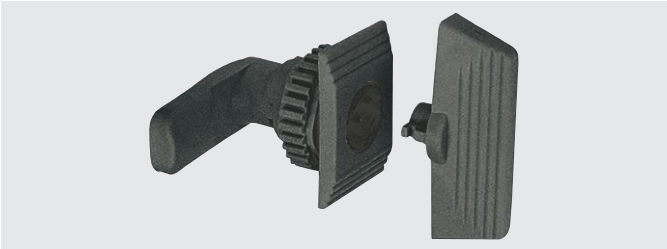
Note:
References **NSYDLM48**, **NSYDLM48P** and **NSYDLM84P**, the central row cannot receive modules at the height of the lock (check our technical instructions) when installed at the front of the enclosure. In this case, 1 module is sealed up. ** DLM modular chassis. The provided dimensions are with the modular chassis, which is the most commonly used accessory with this enclosure.

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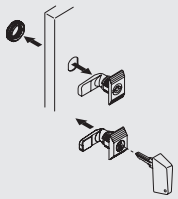
Steel wall-mounting enclosures

Lock for Spacial CRN enclosure

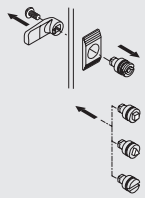
- **NSYCDB3** 3 mm Ø standard double-bar lock.
- By fixing the wing nut to the lock, the double-bar lock becomes a handle lock.
- Operation using:
  wing key ref.: **NSYDBP**
  key NSYLDB5 (according to DIN 43668)
- **NSYTDBCRN** delivered with 1 metal key



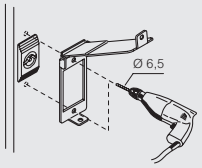
Lock change



Insert change



NSYKPLM padlock assembly



Inserts


NSYTDBCRN


NSYTC6CRN


NSYTT6CRN


NSYTC7CRN


NSYTT7CRN


NSYTC8CRN


NSYTT8CRN

Characteristics	Key references	References
3 mm double bar	NSYLDB5	**NSYTDBCRN**
6 mm square	NSYLC7	**NSYTC6CRN**
7 mm square	NSYLC7	**NSYTC7CRN**
8 mm square	NSYLC8	**NSYTC8CRN**
6.5 mm triangular	NSYLT8	**NSYTT6CRN**
7 mm triangular	NSYLT8	**NSYTT7CRN**
8 mm triangular	NSYLT8	**NSYTT8CRN**
Screw driver lock		**NSYAEDLSD**

Keys


NSYLDB5


NSYLC8


NSYLT8

- Insert without keys (unless indicated)

Characteristics	References
Metal key for 5 mm double bar insert	**NSYLDB5**
Metal key for 7 mm square insert	**NSYLC7**
Metal key for 8 mm square insert	**NSYLC8**
Metal key for 8 mm triangle insert	**NSYLT8**

Complete locks


NSYCL405CRN


NSYCLL405CRN

Characteristics	References
Complete manual handle lock, operated with key 405	**NSYCL405CRN**
Complete manual handle lock, operated with key 220	**NSYCL220CRN**
Complete metal lock, operated with key 405E	**NSYCLL405CRN**

Padlocks


NSYKPLM


NSYCBCCRN

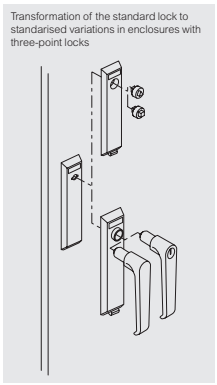
Characteristics	References
Padlock device for WM enclosures, Ø 8 mm	**NSYKPLM**
Padlock for Spacial CRN enclosure, Ø 7.5 mm / Ø 10 mm	**NSYCBCCRN**

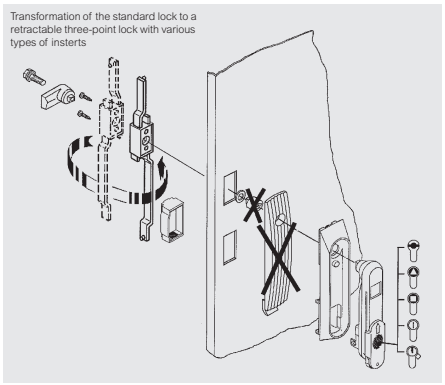
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Steel wall-mounting enclosures

Lock for Spacial CRNG enclosure (three-point lock)

- Standard 5 mm double-bar lock for CRNG models.
- Operation using: Key **NSYLDB5** (according to DIN 43668)





Transformation of the standard lock to standarised variations in enclosures with three-point locks


NSYTC6ML

Type of insert	Key references	References
6 mm square	NSYLC7	**NSYTC6ML**
7 mm square	NSYLC7	**NSYTC7ML**
8 mm square	NSYLC8	**NSYTC8ML**
7 mm side triangle	NSYLT8	**NSYTT7ML**
8 mm side triangle	NSYLT8	**NSYTT8ML**

Handle locks for transformation of the standard lock to standarised variations in enclosures with three-point locks


NSYTL405SML

Characteristics	References
Handle lock	**NSYTSML**
Handle lock operated using key 405 (included)	**NSYTL405SML**

Transformation of the standard lock to a retractable three-point lock with various types of insterts


NSYTEL405ML

Characteristics	Key references	References
Key operated bar lock	NSYLDB5	**NSYTEDB5ML**
8 mm square lock	NSYLC8	**NSYTEC8ML**
7 mm side triangle lock	NSYLT8	**NSYTET7ML**
8 mm side triangle lock	NSYLT8	**NSYTET8ML**
Lock operated with key type 405		**NSYTEL405ML**
Lock operated with reinforced key		**NSYTERML**

Keys

- Insert without keys (unless indicated)


NSYLDB5


NSYLC8


NSYLT8

Characteristics	References
Metal key for 5 mm double bar insert	**NSYLDB5**
Metal key for 7 mm square insert	**NSYLC7**
Metal key for 8 mm square insert	**NSYLC8**
Metal key for 8 mm triangle insert	**NSYLT8**

Padlocking accessories

- Padlocking system, positioned around the long rectangular escutcheon of the enclosures, to block access to the lock, for a Ø 9 mm padlock.


NSYBCPL

Characteristics	References
Padlock device for large rectangular escucheon of PLM 108 and PL	**NSYBCPL**

- Padlocking system, to block access to the retractable handle, for a Ø 9 mm padlock.


NSYBCME

Characteristics	References
Spacial SFX - SMX enclosures - padlocking device for retractable handle	**NSYBCME**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel wall-mounting enclosures

Standard cable gland plates

- The cable gland plate for Spacial CRN guarantees water and dust tightness.
- Material: Steel
- Colour: RAL 7035 grey
- Installation: Fixing with screws, it is flattened with the body
- Type E: Enclosure with 2 entries

Supply:
Included as a standard with the Spacial CRN enclosure It is delivered with a separate seal: It allows easy cut-outs with no risk of damaging the seal and can be easily repainted



NSYTLCRNO

Characteristics	Width (mm)	Depth (mm)	To be coupled with entry	References
Standard cable gland plate	200	150	0	**NSYTLCRNO**
Standard cable gland plate	250	150/200	A	**NSYTLCRNA**
Standard cable gland plate	300	150/200	B	**NSYTLCRNB**
Standard cable gland plate	400/500	150	B	**NSYTLCRNB**
Standard cable gland plate	400	200/250	C	**NSYTLCRNC**
Standard cable gland plate	500/600	200/250/300	D	**NSYTLCRND**
Standard cable gland plate	800	200/250/300	E	**NSYTLCRNC**

Insulated cable gland plates

- With a polyurethane sealing gasket.
- Excellent thermal resistance.
- Pre-marked holes for cable entrie plates.
- Material: Self-extinguishing ABS with 30 % fibreglass
- Colour: RAL 7035 grey
- Installation: Pre-marked holes with diameter Pg for coupling of cable glands, membrane glands, tubes, etc
- For type E cable entry, use two **NSYTSACRNC**.

Fig. 1

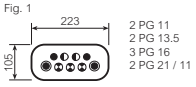


Fig. 2

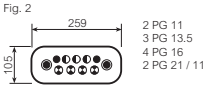


Fig. 3

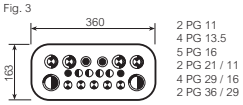
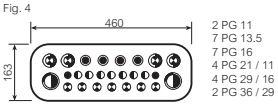


Fig. 4



For more details see page 69

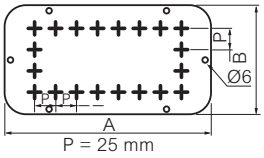


Characteristics	Fig.	Width (mm)	Depth (mm)	To be coupled with entry	References
Insulated cable gland plate	1	250	150/200	A	**NSYTSACRNA**
Insulated cable gland plate	2	300	150/200	B	**NSYTSACRNB**
Insulated cable gland plate	3	400/500	150	B	**NSYTSACRNB**
Insulated cable gland plate	3	400	200/250	C	**NSYTSACRNC**
Insulated cable gland plate	4	500/600	200/250/300	D	**NSYTSACRND**
Insulated cable gland plate	3	800	200/250/300	E (2)	**NSYTSACRNC**

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Steel wall-mounting enclosures

Standard cable gland plates



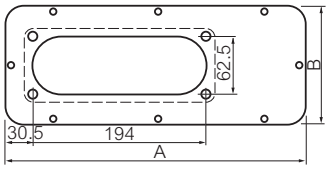
- Cable entries
- Material: Steel
- Colour: RAL 7035 grey
- Ingress protection rating: IP66 according to IEC 6052
- Installation: Surface with a grid pattern in 25 mm intervals to facilitate perforation, fixing with screws

Supply:
Standard supply with
the Spacial CRNG enclosures


NSYTLG

Characteristics	Width (mm)	Depth (mm)	To be coupled with entry	Dimensions A x B (mm)	References
Standard cable gland plate	600	400	G	495 x 220	**NSYTLG**
Standard cable gland plate	800	300-400	H (2 entries)	345 x 130	**NSYTLD**
Standard cable gland plate	1000-1200	300-400	H (2 entries)	445 x 130	**NSYTLE**

Cable gland plates for membrane glands



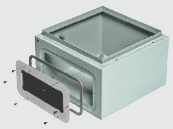
- Cable entries
- FL21 cut-outs
- Material: Steel
- Colour: RAL 7035 grey
- Ingress protection rating: The membranes are built to accommodate water and dust tight cable entries in insulated material (flame classification V0), guaranteeing IP65 (to be ordered separately), IP 65 according to IEC 60529
- Installation: Fixing with screws


NSYTLG2FL

Characteristics	Width (mm)	Depth (mm)	To be coupled with entry	Dimensions A x B (mm)	References
For membrane glands	600	400	G	495 x 220	**NSYTLG2FL**
For membrane glands	800	300-400	H (2 entries)	345 x 130	**NSYTLDFL**
For membrane glands	1000-1200	300-400	H (2 entries)	445 x 130	**NSYTLEFL**

FlexiCable

Mount FlexiCable on your CRN enclosure.



Create a hole with a screw driver.



Push the cable through FlexiCable and finish-off your installation.



- FlexiCable is an innovative cable gland plate for simple and fast cable entrance. There is no need to drill holes: The creation of the cable entrances takes a few seconds.
  Cable diameter: Up to 26 mm.
- Ingress protection rating: IP55 according to IEC 60529
- Installation: Installation possibilities: Replaces cable gland plate (S3D or CRN-G) or directly on enclosure
- Other characteristics: Exists in 5 sizes matching 46 sizes (132 models) of Spacial S3D steel wall-mounting enclosures
  Fire resistant 650°C following IEC 60695-2-11
  Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1

Supply:
1 metallic frame with pre-mounted membrane, 1 gasket, Fixing hardware


NSYTLGME

Characteristics	Width (mm)	Depth (mm)	Dimensions A x B (mm)	Effective cable entrance dimensions (mm)	References
FlexiCable	600	400	495 x 220	428 x 153	**NSYTLGME**
FlexiCable	800	300-400	345 x 130	-	**NSYTLDME**
FlexiCable	1000-1200	300-400	445 x 130	-	**NSYTLEME**

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Steel wall-mounting enclosures

Internal door

- Locking with 3-mm double-bar lock.
- The internal door can be installed directly on the front face of the enclosure or on the step slides (not supplied as standard).
- To mount an inner door and a mounting plate at the same time on the step slides is possible as standard.
- Incompatible with the installation of the door stop and door switch.
- For further details, please consult us.
- Material: Steel
- Colour: RAL 7035 grey
- Maximum load: 30 kg/m²

Note:
(1) Equipped with welded vertical profiles in order to facilitate cable management.


NSYPIN43

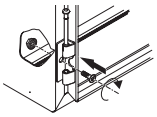
Characteristics	High (mm)	Width (mm)	References
Internal door	400	300	**NSYPIN43**
Internal door	500	400	**NSYPIN54**
Internal door	600	400	**NSYPIN64**
Internal door	700	500	**NSYPIN75**
Internal door	800	600	**NSYPIN86** (1)
Internal door	1000	600	**NSYPIN106** (1)
Internal door	1000	800	**NSYPIN108** (1)
Internal door	1200	600	**NSYPIN126**
Internal door	1200	800	**NSYPIN128** (1)

Door hinges


NSYAEDH180S3D


NSYAEDH120S3D

- Captive pin, indexed by a spring.
- Material: Zamak body for ref **NSYAEDH180S3D**, treated sheet-steel body for ref. **NSYAEDH120S3D**, aluminium pin
- Maximum load: For the 180° hinge, the maximum admissible load on the door is 20 kg/m²
- For the 120° hinge, the maximum admissible load on the door is 50 kg/m²



Supply:
Batch of 1 hinge, delivered with fixings

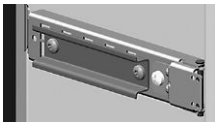
Characteristics	References
180° hinge for CRNG enclosure	**NSYAEDH180S3D**
Standard 120° hinge for CRNG	**NSYAEDH120S3D**

Mounting rail



- Accessory designed to optimize the available space in the cubicle.
- It is intended for the installation of switchgear complementing the chassis.
- Mounting possible after installing the mounting plate.
- It is mounted horizontally, with a single screw, on the side panels.
- Door switch mounting possibility.
- It is possible to vertically fasten **NSYSLCR●●** light cross rails (description on page 246) and **NSYSQCR●●** quick-fixing cross rails (description on page 244).
- Material: Galvanised steel
- Maximum load: Static load: 6 kg (sides) and 1,5 kg (top); Dynamic load (transport horizontally): 2 kg according to ASTM D-4169-16
- Installation: In order to ensure the electrical continuity in all cases we recommend using an earthing cable **NSYEL●●●D6** or **NSYEL●●●D8**, see page 295









Supply:
Set of 2 cross rails


NSYSUCR200WM

Characteristics	Cubicle depth (mm)	References
Mounting rail for wall mounting enclosure S3D/CRN	200	**NSYSUCR200WM**
Mounting rail for wall mounting enclosure S3D/CRN	250	**NSYSUCR250WM**
Mounting rail for wall mounting enclosure S3D/CRN	300	**NSYSUCR300WM**
Mounting rail for wall mounting enclosure S3D/CRN	400	**NSYSUCR400WM**

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Dimensions

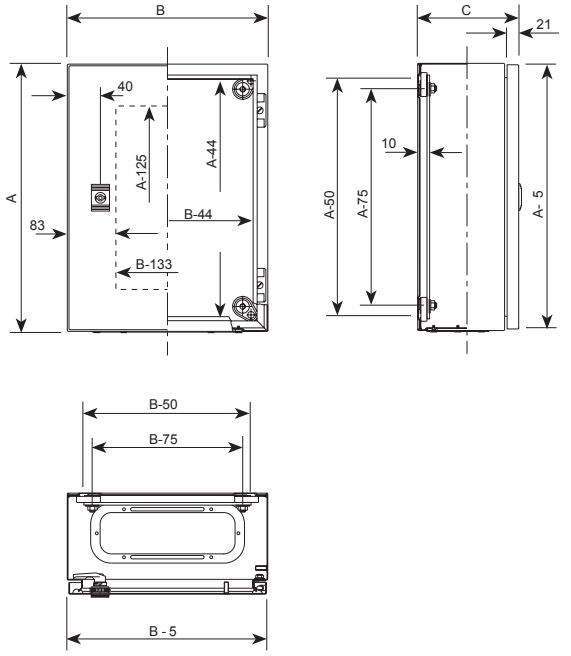


Fig. 1

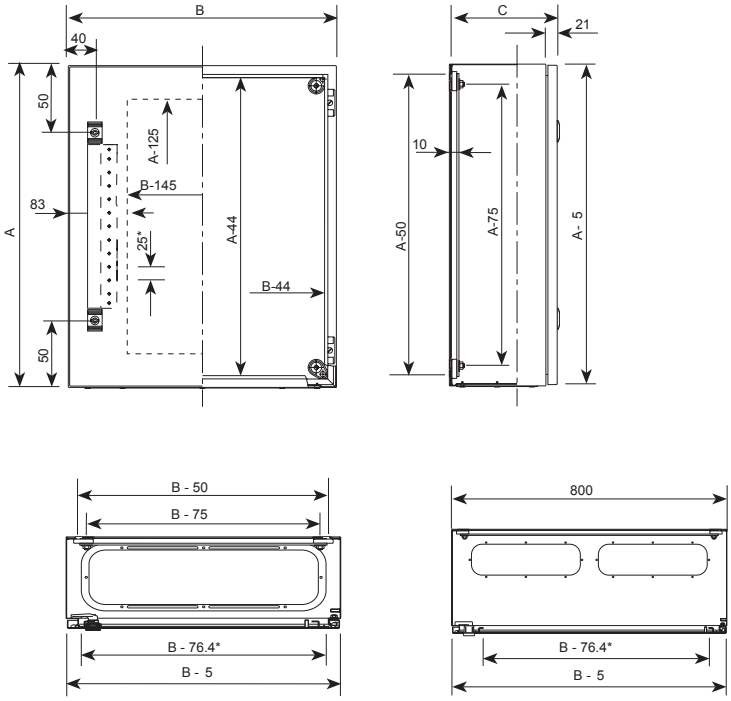
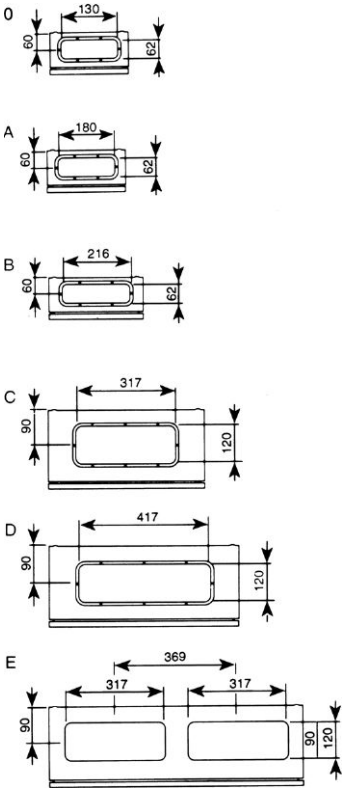


Fig. 2

A: Enclosure height
B: Enclosure width
C: Enclosure depth

Spacial CRN cable entry dimensions and type



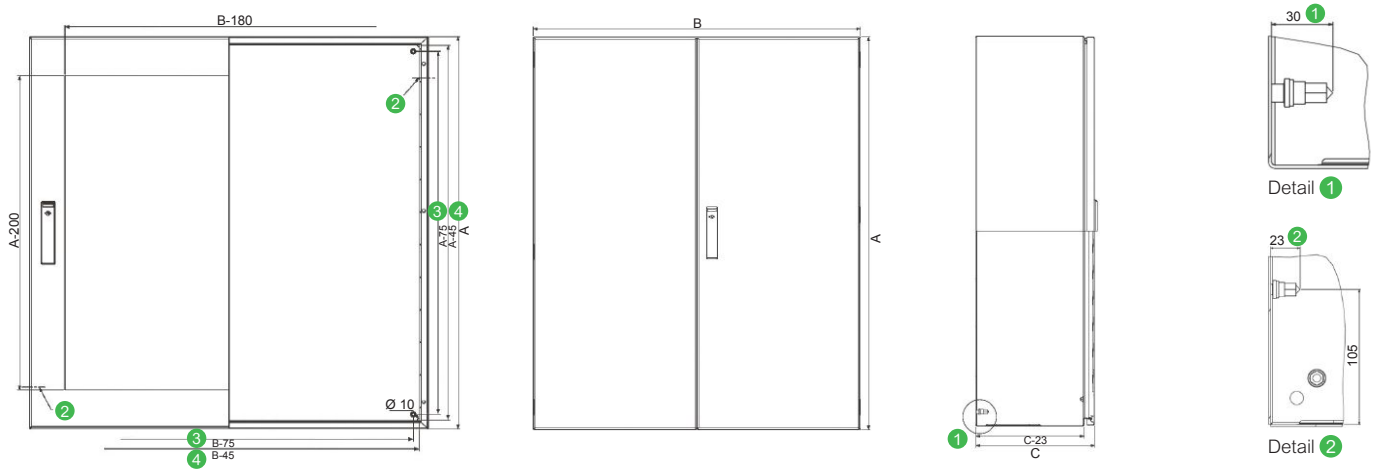
None of the T glazed-door enclosures have door reinforcement profiles.

Our DXF diagrams and technical instruction sheets can be downloaded from our websites.

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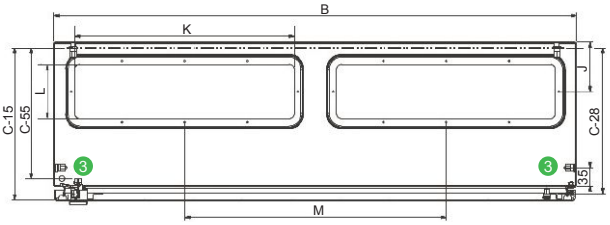
Dimensions

A: Enclosure height, B: Enclosure width, C: Enclosure depth

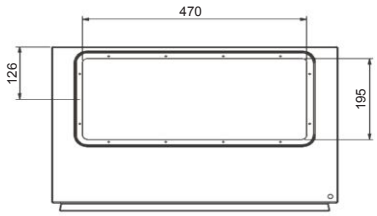


Dimensions of enclosure (mm)					
Width (B)	Depth (C)	J	K	L	M
600	300-400	126	470	195	-
800	300-400	95	320	105	400
1000 (5)	300	125	420	105	500
1000	300-400	95	420	105	500
1200	300	95	420	105	500
	400	125	420	105	600

1 Four M8 x 25 back studs
2 Two M6 x 17.5 earth studs
3 Spacing between the studs
4 Spacing between the perforations for direct fixing
5 Only models 1400 x 1000 x 300



Cable entry type H: Enclosure width ≥ 800 mm.



Cable entry type G: Enclosure width 600 mm.

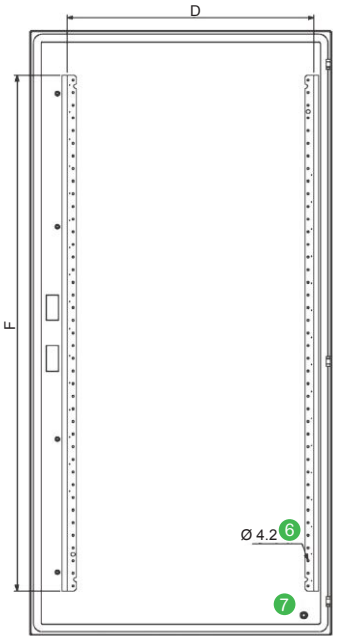
Dimensions of the door-reinforcement profiles, the T doors only include vertical profiles

1-door enclosure		Reinforcement profile	
Height (A)	Width (B)	F	D
800	600	620	487
1000	600	820	487
	800	820	687
1200	600	1020	480
	800	1020	687

2-door enclosure		Reinforcement profile			
		Rt. Door		Lft. Door	
Height (A)	Width (B)	F	D	F	D
800	1000	620	387	620	437
	1200	620	487	620	537
1000	1000	820	387	820	437
	1200	820	487	820	537
1200	1000	1020	387	1020	437
	1200	1020	487	1020	537
1400	1000	1020	387	1020	437

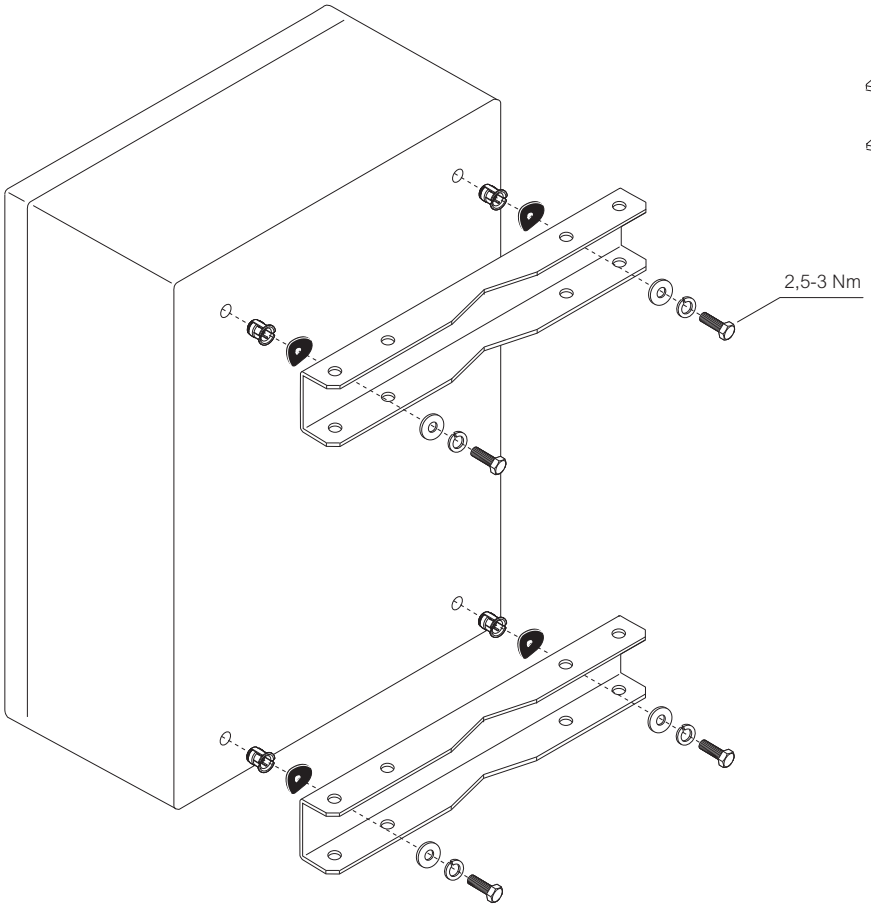
6 25-mm passage
7 1 M6 x 17.5 earth stud

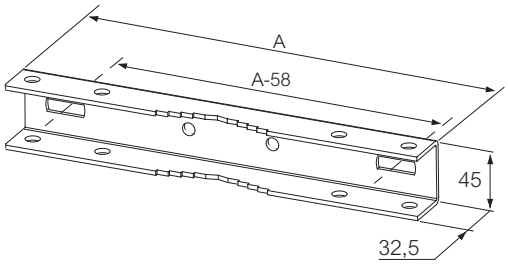
Download our DXF diagrams from our website.

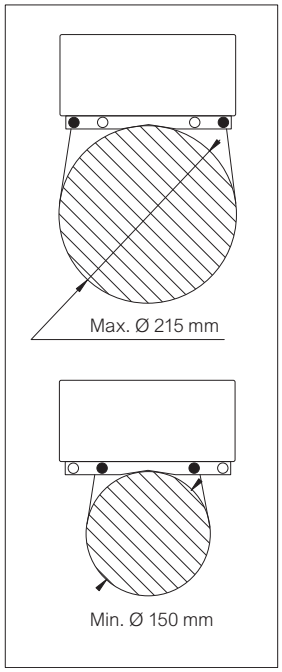


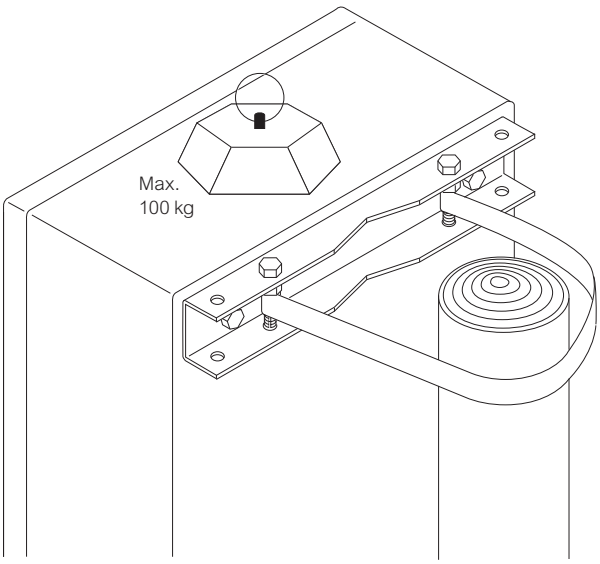
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

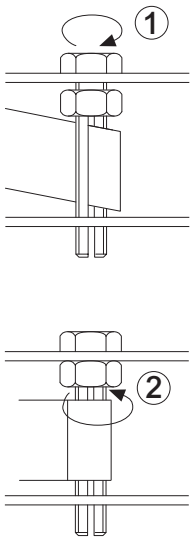
Post-fixing device for Spacial steel enclosure











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Steel wall-mounting enclosures

Insulated cable gland plates

Fig. 1

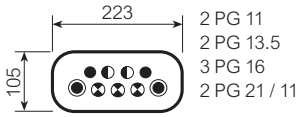


Fig. 2

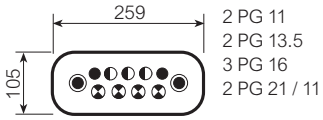


Fig. 3

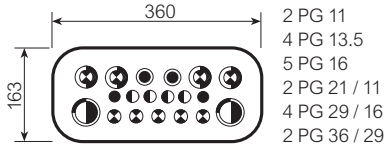
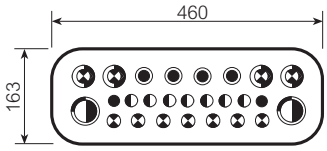
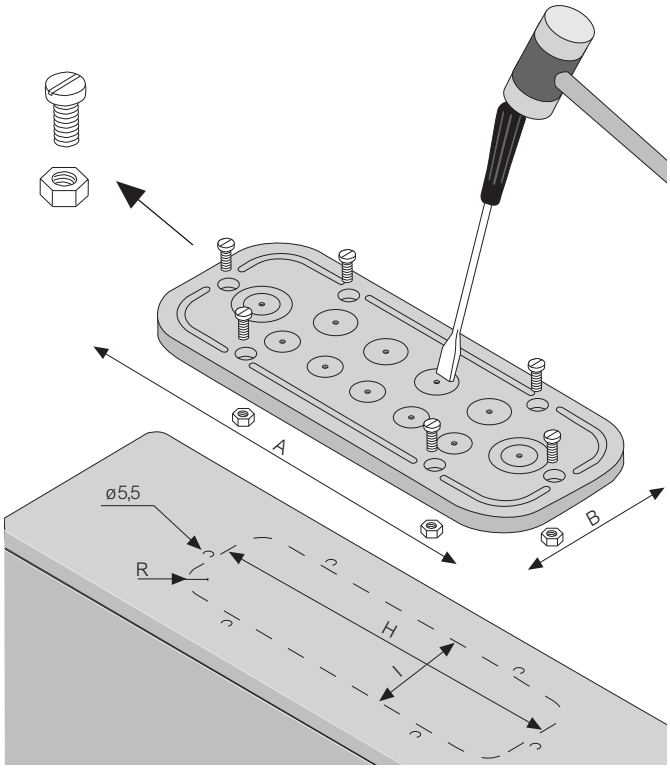


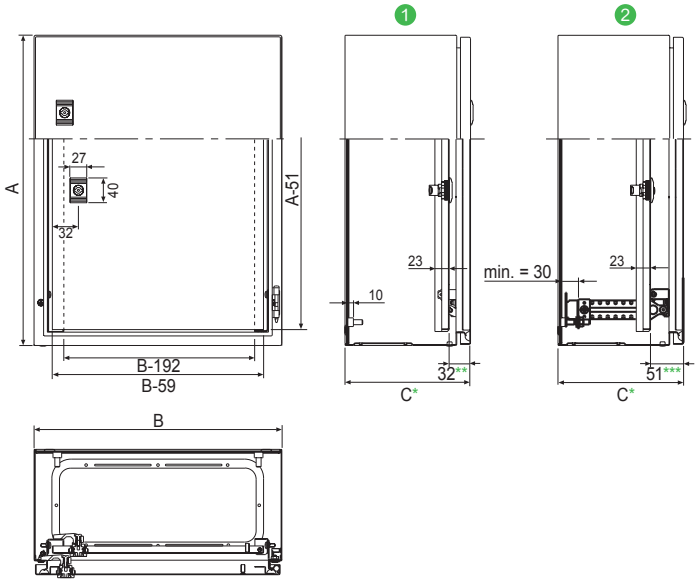
Fig. 4





- PG 11 (18,6 mm)
- PG 16 (20,4 mm)
- PG 16 /22,5 mm)
- PG 21 / 11 (28.3 / 18.6 mm)
- PG 29 / 16 (37 / 22.5 mm)
- PG 36 / 29 (47 / 37 mm)

Internal door



1 **NSYPIN●●●** internal door fixed directly to the enclosure.
2 **NSYPIN●●●** internal door fixed to the adjustable **NSYSDCR** support. In this case, both the internal door and the mounting plate may be depth adjustable.

* Dimension C according to general table on page 46.
** Except H 1200 x W 600: 38.3.
*** Except H 1200 x W 600: 59 and H 1200 x W 800: 50

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Compact enclosures Spacial SM



Suitable enclosures Spacial SF - Assembled supply



Life Is On Schneider Electric

Steel floor-standing enclosures

Spacial SM-SF

Introduction	72
Characteristics	74
Selection guide	76
Accessories	82
Dimensions	110

Multi-purpose IP55 compact steel enclosure for fast and simple solutions.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining



SM



Robust

- Body made as a single piece with welded rear panel.
- Front part forming a rigid frame with welded corners.



Protection

- IP guaranteed by the rigidity of the enclosure, the expanded-polyurethane sealing gasket of the enclosure and the subsequent welding.
- Double door enclosures with inner lock on the left door.



Practical

- Door rails, which can be height-adjustable and used for fixing cables.
- Can be installed adaptation profile in the front and rear of the enclosure and the universal 40 mm cross rail (1 row) in the rear provide the same fixing points as the modular enclosure.



Comfort

- Handle with sturdy design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key.
- Easily interchangeable insert with one click.

See page 522 for details or consult our web site www.se.com

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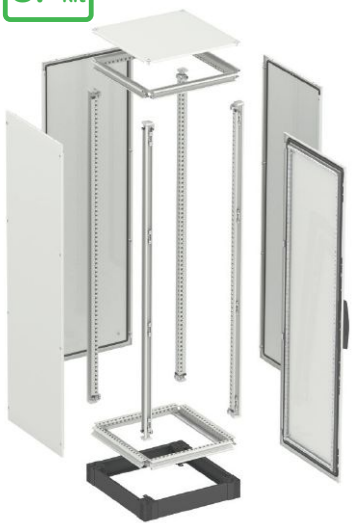
Adapts to all your needs. Assembled delivery for a ready-to-use solution.

SF



Adapts to customer needs. Delivered as kit, with up to 600 different possible configurations.

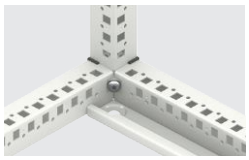
SF kit





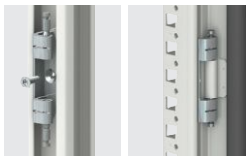
Volume of packaging in kit supply

Assembled supply



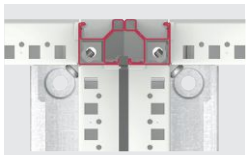
Robust

- Structure formed from a single 15/10e mm
- galvanised steel section, with a high rigidity.
- Vertical uprights screwed together with connections of full steel. Placement and screwing of the 4 vertical uprights at the corners of the top and bottom frames. Fixing by 8 screws, one at each corner of the enclosure.
- Capable of withstanding 1000 kg distributed in its volume.



Fast

- The double system of cut-outs on the structure allows most accessories to be installed using self-tapping TORX T30 M6 screws or nuts.
- Clip-on quick fixing cross rails, fixed with self-tapping screws.
- Door installation inserting the captive pins of the hinge in their housing in the door.



Reliable

- The design of the profile creates a double protective barrier against the entry of water and dust when coupling two enclosures.
- The first barrier is the metal connection of the sections, and the second barrier is the EPDM gasket that helps guarantee the sealing.



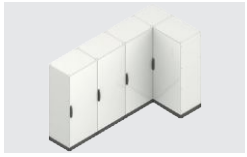
Practical

- Suspension of the rear panel using a self-centring piece to facilitate screwing.



Aesthetics

- The built-in panels and handle with new design give the enclosure a new appearance.



Simple

The new design allows enclosures to be coupled in any direction, adapting to all installation surfaces.



Comfort

- Handle with robust design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key.
- Panels with captive screws for easier assembly and dismantling.



Accessible

The symmetric design of the profile allows doors to be installed on any side of the enclosure, opening to right or left, providing full accessibility to the enclosure.

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Steel floor-standing enclosures



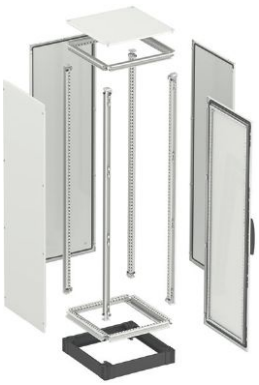
SM

Characteristics	Compact enclosures Spacial SM
	• Compact body with a front rigid frame with welded corners and rear panel supports installed in depth to adjust and fix the equipment with a pitch of 25 mm
Basic composition	• The double doors are overlapping, with system for fixing the left door • Door reversible, 120° opening • Welded rear panel • 4 locking points system with handle 5 mm double bar insert • Cable gland plate 1 entry • Mounting plate support brackets
Versions / Configurations	• Compact enclosure with plain door and mounting plate • Compact enclosure with plain door and without mounting plate • Compact enclosure with transparent Securit® glass door and without mounting plate
Protection of personnel	Earthing accessories needed to help ensure the grounding continuity, page 295
Material	Steel
Finish	Structured finish, epoxy polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK10 for plain door and IK08 for transparent door according to IEC 62262
Standards	Compliance with enclosure standard IEC 62208 and the RoHS and REACH directive
Certifications	BV, DNV, UL * and cUL, *1 door: 1, 2, 3R, 4, 5 and 13, * 2 doors: 1, 12
Installation	Indoor / Outdoor* installation * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Outdoor installation: Canopy needed to avoid water stagnation on the upper part of the enclosure, page 97
Maximum load	500 kg
Options	• Plinths, heights 100 mm and 200 mm, page 88 • Lifting eyebolts, page 96 • Internal door, page 101 • Door accessories, page 103 • Other locking options, page 106 • Mounting plates and Telequick system, page 235

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SF

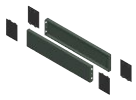


SF kit

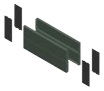
Suitable enclosures Spacial SF - Assembled supply	Suitable enclosures Spacial SF - Supplied as a kit
• Structure made up of vertical uprights joined with top and bottom frames • Panels and doors built into the structure • Formed from a single section and perforated structure with a pitch of 25 mm	
• Front door with a reinforcement frame (horizontal rails height-adjustable) • The double doors are overlapping, with system for fixing the left door • Door reversible, 120° opening • Rear panel screwed on with captive screws • Removable roof • 4 locking points system with handle 5 mm double bar insert • Mounting plate support brackets • Mounting plate sliding rails • 2 quick fixing cross rails	• Front door with a reinforcement frame (horizontal rails height-adjustable) • The double doors are overlapping, with system for fixing the left door • Door reversible, 120° opening • Rear panel to be screwed on with captive screws • Removable roof delivered with top frame • 4 locking points system with handle 5 mm double bar insert • Mounting plate support brackets delivered with top and bottom frames kit • Mounting plate sliding rails delivered with top and bottom frames kit • 2 quick fixing cross rails delivered with top and bottom frames kit
• Modular enclosure with plain door and mounting plate • Modular enclosure with plain door and without mounting plate • Modular enclosure with transparent Securit® glass door and without mounting plate	• Uprights kit • Top and bottom frames kit • Rear panel kit • Door kit (plain or transparent)
Earthing accessories needed to help ensure the grounding continuity	
Steel	
Structured finish, epoxy polyester powder	
RAL 7035 grey	
IP55 according to IEC 60529	
IK10 for plain door and IK08 for transparent door according to IEC 62262	
Compliance with enclosure standard IEC 62208 and the RoHS and REACH directive	
BV, DNV-GL, UL and cUL*, *1 door: 1, 3R, 12, 12K, *2 doors: 1, 3R, 12	
1000 kg	
• Side panels options, page 84 • Enclosure suites options, page 85 • Plinths, heights 100 mm and 200 mm, page 86 • Cable gland plates, page 92 • Lifting systems, page 96 • Roof options, page 98 • Door accessories, page 103 • Other locking options, page 106 • Mounting plates and Telequick system, page 235	• Side panels options, page 84 • Enclosure suites options, page 85 • Plinths, heights 100 mm and 200 mm, page 86 • Cable gland plates, page 92 • Lifting systems, page 96 • Roof options, page 98 • Other locking options, page 106 • Mounting plates and Telequick system, page 235

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SM Steel floor-standing enclosures

Dimensions				Enclosures			Plinth (H 100 mm)	
								
Height (mm)	Width (mm)	Depth (mm)	Doors	Plain door, without mounting plate	Plain door, with mounting plate	Transparent door, without mounting plate	Front kit (corners + front panels)	Side panels, 2 pieces
1200	800	300	1	NSYSM12830	NSYSM12830P	-	NSYSPF8100	NSYSPS3100
1200	1000	300	2	NSYSM1210302D	NSYSM1210302DP	-	NSYSPF10100	NSYSPS3100
1200	1200	400	2	NSYSM1212402D	NSYSM1212402DP	-	NSYSPF12100	NSYSPS4100
1400	600	300	1	NSYSM14630	NSYSM14630P	-	NSYSPF6100	NSYSPS3100
1400	600	400	1	NSYSM14640	NSYSM14640P	-	NSYSPF6100	NSYSPS4100
1400	800	300	1	NSYSM14830	NSYSM14830P	-	NSYSPF8100	NSYSPS3100
1400	800	400	1	NSYSM14840	NSYSM14840P	NSYSM14840T	NSYSPF8100	NSYSPS4100
1400	1000	400	2	NSYSM1410402D	NSYSM1410402DP	-	NSYSPF10100	NSYSPS4100
1400	1200	400	2	NSYSM1412402D	NSYSM1412402DP	-	NSYSPF12100	NSYSPS4100
1600	600	300	1	NSYSM16630	NSYSM16630P	-	NSYSPF6100	NSYSPS3100
1600	600	400	1	NSYSM16640	NSYSM16640P	NSYSM16640T	NSYSPF6100	NSYSPS4100
1600	800	300	1	NSYSM16830	NSYSM16830P	NSYSM16830T	NSYSPF8100	NSYSPS3100
1600	800	400	1	NSYSM16840	NSYSM16840P	NSYSM16840T	NSYSPF8100	NSYSPS4100
1600	1000	300	2	NSYSM1610302D	NSYSM1610302DP	-	NSYSPF10100	NSYSPS3100
1600	1000	400	2	NSYSM1610402D	NSYSM1610402DP	-	NSYSPF10100	NSYSPS4100
1600	1200	300	2	NSYSM1612302D	NSYSM1612302DP	-	NSYSPF12100	NSYSPS3100
1600	1200	400	2	NSYSM1612402D	NSYSM1612402DP	-	NSYSPF12100	NSYSPS4100
1800	600	300	1	NSYSM18630	NSYSM18630P	-	NSYSPF6100	NSYSPS3100
1800	600	400	1	NSYSM18640	NSYSM18640P	NSYSM18640T	NSYSPF6100	NSYSPS4100
1800	600	500	1	NSYSM18650	NSYSM18650P	-	NSYSPF6100	NSYSPS5100
1800	800	300	1	NSYSM18830	NSYSM18830P	NSYSM18830T	NSYSPF8100	NSYSPS3100
1800	800	400	1	NSYSM18840	NSYSM18840P	NSYSM18840T	NSYSPF8100	NSYSPS4100
1800	800	500	1	NSYSM18850	NSYSM18850P	NSYSM18850T	NSYSPF8100	NSYSPS5100
1800	800	600	1	NSYSM18860	NSYSM18860P	-	NSYSPF8100	NSYSPS6100
1800	1000	400	1	NSYSM181040	NSYSM181040P	-	NSYSPF10100	NSYSPS4100
1800	1000	400	2	NSYSM1810402D	NSYSM1810402DP	-	NSYSPF10100	NSYSPS4100
1800	1000	500	2	NSYSM1810502D	NSYSM1810502DP	-	NSYSPF10100	NSYSPS5100
1800	1200	400	2	NSYSM1812402D	NSYSM1812402DP	-	NSYSPF12100	NSYSPS4100
1800	1200	500	2	NSYSM1812502D	NSYSM1812502DP	-	NSYSPF12100	NSYSPS5100
1800	1600	400	2	NSYSM1816402D	NSYSM1816402DP	-	NSYSPF16100	NSYSPS4100
1800	1600	500	2	NSYSM1816502D	NSYSM1816502DP	-	NSYSPF16100	NSYSPS5100
2000	600	300	1	NSYSM20630	NSYSM20630P	-	NSYSPF6100	NSYSPS3100
2000	600	400	1	NSYSM20640	NSYSM20640P	NSYSM20640T	NSYSPF6100	NSYSPS4100
2000	600	500	1	NSYSM20650	NSYSM20650P	-	NSYSPF6100	NSYSPS5100
2000	800	300	1	NSYSM20830	NSYSM20830P	NSYSM20830T	NSYSPF8100	NSYSPS3100
2000	800	400	1	NSYSM20840	NSYSM20840P	NSYSM20840T	NSYSPF8100	NSYSPS4100
2000	800	500	1	NSYSM20850	NSYSM20850P	NSYSM20850T	NSYSPF8100	NSYSPS5100
2000	800	600	1	NSYSM20860	NSYSM20860P	NSYSM20860T	NSYSPF8100	NSYSPS6100
2000	1000	400	2	NSYSM2010402D	NSYSM2010402DP	-	NSYSPF10100	NSYSPS4100
2000	1000	500	2	NSYSM2010502D	NSYSM2010502DP	-	NSYSPF10100	NSYSPS5100
2000	1200	400	2	NSYSM2012402D	NSYSM2012402DP	-	NSYSPF12100	NSYSPS4100
2000	1200	500	2	NSYSM2012502D	NSYSM2012502DP	-	NSYSPF12100	NSYSPS5100
2000	1200	600	2	NSYSM2012602D	NSYSM2012602DP	-	NSYSPF12100	NSYSPS6100
2000	1600	400	2	NSYSM2016402D	NSYSM2016402DP	-	NSYSPF16100	NSYSPS4100
2000	1600	500	2	NSYSM2016502D	NSYSM2016502DP	-	NSYSPF16100	NSYSPS5100
2000	1600	600	2	NSYSM2016602D	NSYSM2016602DP	-	NSYSPF16100	NSYSPS6100

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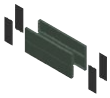
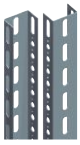
	Plinth (H 200 mm)		Inner door	Mounting plate	Vertical uprights		19" swing rack	
								
	Front kit (corners + front panels)	Side panels, 4 pieces	Plain door	Galvanized	Standard	Technical	Off-centre	Centred
	NSYSPF8200	NSYSPS3200	-	NSYMP128	-	NSYTVR12	-	-
	NSYSPF10200	NSYSPS3200	-	NSYMP1210	-	NSYTVR12	-	-
	NSYSPF12200	NSYSPS4200	-	NSYMP1212	-	NSYTVR12	-	-
	NSYSPF6200	NSYSPS3200	-	NSYMP146	-	NSYTVR14	-	-
	NSYSPF6200	NSYSPS4200	-	NSYMP146	-	NSYTVR14	-	-
	NSYSPF8200	NSYSPS3200	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
	NSYSPF8200	NSYSPS4200	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27
	NSYSPF10200	NSYSPS4200	-	NSYMP1410	-	NSYTVR14	-	-
	NSYSPF12200	NSYSPS4200	-	NSYMP1412	-	NSYTVR14	-	-
	NSYSPF6200	NSYSPS3200	NSYID166	NSYMP166	-	NSYTVR16	-	-
	NSYSPF6200	NSYSPS4200	NSYID166	NSYMP166	-	NSYTVR16	-	-
	NSYSPF8200	NSYSPS3200	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
	NSYSPF8200	NSYSPS4200	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31
	NSYSPF10200	NSYSPS3200	-	NSYMP1610	-	NSYTVR16	-	-
	NSYSPF10200	NSYSPS4200	-	NSYMP1610	-	NSYTVR16	-	-
	NSYSPF12200	NSYSPS3200	-	NSYMP1612	-	NSYTVR16	-	-
	NSYSPF12200	NSYSPS4200	-	NSYMP1612	-	NSYTVR16	-	-
	NSYSPF6200	NSYSPS3200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
	NSYSPF6200	NSYSPS4200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
	NSYSPF6200	NSYSPS5200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
	NSYSPF8200	NSYSPS3200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
	NSYSPF8200	NSYSPS4200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
	NSYSPF8200	NSYSPS5200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
	NSYSPF8200	NSYSPS6200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36
	NSYSPF10200	NSYSPS4200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
	NSYSPF10200	NSYSPS4200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
	NSYSPF10200	NSYSPS5200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
	NSYSPF12200	NSYSPS4200	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
	NSYSPF12200	NSYSPS5200	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
	NSYSPF16200	NSYSPS4200	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
	NSYSPF16200	NSYSPS5200	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
	NSYSPF6200	NSYSPS3200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
	NSYSPF6200	NSYSPS4200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
	NSYSPF6200	NSYSPS5200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
	NSYSPF8200	NSYSPS3200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
	NSYSPF8200	NSYSPS4200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
	NSYSPF8200	NSYSPS5200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
	NSYSPF8200	NSYSPS6200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
	NSYSPF10200	NSYSPS4200	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
	NSYSPF10200	NSYSPS5200	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
	NSYSPF12200	NSYSPS4200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
	NSYSPF12200	NSYSPS5200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
	NSYSPF12200	NSYSPS6200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
	NSYSPF16200	NSYSPS4200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
	NSYSPF16200	NSYSPS5200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
	NSYSPF16200	NSYSPS6200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-

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SF Steel floor-standing enclosures

Dimensions				Enclosures			Side panels	Cable entry plates		
										
(A)	(B)	(C)								
Height (mm)	Width (mm)	Depth (mm)	Doors	Plain door, without mounting plate	Plain door, with mounting plate	Transparent door, without mounting plate	Standard	Plain	1 entry	2 entries
1200	600	400	1	NSYSF12640	NSYSF12640P	-	NSY2SP124	NSYEC64	NSYEC641	-
1200	600	600	1	NSYSF12660	NSYSF12660P	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662
1200	800	400	1	NSYSF12840	NSYSF12840P	-	NSY2SP124	NSYEC84	NSYEC841	-
1200	800	600	1	NSYSF12860	NSYSF12860P	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862
1400	600	400	1	NSYSF14640	NSYSF14640P	-	NSY2SP144	NSYEC64	NSYEC641	-
1400	800	400	1	NSYSF14840	NSYSF14840P	-	NSY2SP144	NSYEC84	NSYEC841	-
1600	600	600	1	NSYSF16660	NSYSF16660P	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662
1600	600	800	1	NSYSF16680	NSYSF16680P	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682
1600	800	600	1	NSYSF16860	NSYSF16860P	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862
1600	800	800	1	NSYSF16880	NSYSF16880P	-	NSY2SP168	NSYEC88	NSYEC881	NSYEC882
1800	400	400	1	NSYSF18440	-	-	NSY2SP184	NSYEC44	NSYEC441	-
1800	400	500	1	NSYSF18450	-	-	NSY2SP185	NSYEC45	NSYEC451	-
1800	400	600	1	NSYSF18460	-	-	NSY2SP186	-	NSYEC461	-
1800	600	400	1	NSYSF18640	NSYSF18640P	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-
1800	600	500	1	NSYSF18650	NSYSF18650P	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-
1800	600	600	1	NSYSF18660	NSYSF18660P	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662
1800	600	800	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682
1800	800	400	1	NSYSF18840	NSYSF18840P	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-
1800	800	500	1	NSYSF18850	NSYSF18850P	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-
1800	800	600	1	NSYSF18860	NSYSF18860P	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
1800	800	600	2	NSYSF188602D	NSYSF188602DP	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
1800	1000	400	1	NSYSF181040	NSYSF181040P	-	NSY2SP184	NSYEC104	NSYEC1041	-
1800	1000	400	2	NSYSF1810402D	NSYSF1810402DP	-	NSY2SP184	NSYEC104	NSYEC1041	-
1800	1000	500	1	NSYSF181050	NSYSF181050P	-	NSY2SP185	NSYEC105	NSYEC1051	-
1800	1000	600	1	NSYSF181060	NSYSF181060P	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
1800	1000	600	2	NSYSF1810602D	NSYSF1810602DP	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
1800	1200	400	2	NSYSF1812402D	NSYSF1812402DP	-	NSY2SP184	NSYEC124	NSYEC1241	-
1800	1200	500	2	NSYSF1812502D	NSYSF1812502DP	-	NSY2SP185	NSYEC125	NSYEC1251	-
1800	1200	600	2	NSYSF1812602D	NSYSF1812602DP	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262
2000	300	500	1	NSYSF20350	-	-	NSY2SP205	NSYEC35	NSYEC351	-
2000	300	600	1	NSYSF20360	-	-	NSY2SP206	NSYEC36	NSYEC361	-
2000	300	800	1	NSYSF20380	-	-	NSY2SP208	-	NSYEC381	-
2000	400	400	1	NSYSF20440	-	-	NSY2SP204	NSYEC44	NSYEC441	-
2000	400	500	1	NSYSF20450	-	-	NSY2SP205	NSYEC45	NSYEC451	-
2000	400	600	1	NSYSF20460	-	-	NSY2SP206	NSYEC64	NSYEC461	-
2000	400	800	1	NSYSF20480	-	-	NSY2SP208	NSYEC84	NSYEC481	-
2000	600	400	1	NSYSF20640	NSYSF20640P	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
2000	600	500	1	NSYSF20650	NSYSF20650P	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-
2000	600	600	1	NSYSF20660	NSYSF20660P	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662
2000	600	800	1	NSYSF20680	NSYSF20680P	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682
2000	800	400	1	NSYSF20840	NSYSF20840P	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-
2000	800	500	1	NSYSF20850	NSYSF20850P	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-
2000	800	600	1	NSYSF20860	NSYSF20860P	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
2000	800	600	2	NSYSF208602D	NSYSF208602DP	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
2000	800	800	1	NSYSF20880	NSYSF20880P	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882
2000	1000	400	1	NSYSF201040	NSYSF201040P	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-
2000	1000	400	2	NSYSF2010402D	NSYSF2010402DP	-	NSY2SP204	NSYEC104	NSYEC1041	-
2000	1000	500	1	NSYSF201050	NSYSF201050P	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-
2000	1000	500	2	NSYSF2010502D	NSYSF2010502DP	-	NSY2SP205	NSYEC105	NSYEC1051	-
2000	1000	600	1	NSYSF201060	NSYSF201060P	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
2000	1000	600	2	NSYSF2010602D	NSYSF2010602DP	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
2000	1000	800	1	NSYSF201080	NSYSF201080P	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082
2000	1200	400	2	NSYSF2012402D	NSYSF2012402DP	-	NSY2SP204	NSYEC124	NSYEC1241	-
2000	1200	500	2	NSYSF2012502D	NSYSF2012502DP	-	NSY2SP205	NSYEC125	NSYEC1251	-
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2000	1200	800	2	NSYSF2012802D	NSYSF2012802DP	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282
2000	1600	400	2	NSYSF2016402D	NSYSF2016402DP	-	NSY2SP204	NSYEC164	NSYEC1641	-
2000	1600	500	2	NSYSF2016502D	NSYSF2016502DP	-	NSY2SP205	NSYEC165	NSYEC1651	-
2000	1600	600	2	NSYSF2016602D	NSYSF2016602DP	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662
2200	400	600	1	NSYSF22460	-	-	NSY2SP226	-	NSYEC461	-
2200	600	600	1	NSYSF22660	NSYSF22660P	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662
2200	600	800	1	NSYSF22680	NSYSF22680P	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682
2200	800	600	1	NSYSF22860	NSYSF22860P	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862
2200	800	800	1	NSYSF22880	NSYSF22880P	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882
2200	1000	600	1	NSYSF221060	NSYSF221060P	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062
2200	1200	600	2	NSYSF2212602D	NSYSF2212602DP	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262
2200	1200	800	2	NSYSF2212802D	NSYSF2212802DP	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282

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Plinths (H 100 mm)		Plinths (H 200 mm)		Mounting plates		Vertical uprights	
							
Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.	Mounting plate	Intermediate mounting plate	Standard	Technical
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP166	NSYSIMP16	-	NSYTVR16
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP168	NSYSIMP16	-	NSYTVR16
NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP168	NSYSIMP16	-	NSYTVR16
NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	NSYMP184 New	-	NSYVR18	NSYTVR18
NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	NSYMP184 New	-	NSYVR18	NSYTVR18
NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	NSYMP184 New	-	NSYVR18	NSYTVR18
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP186	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP188	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP1810	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP1812	NSYSIMP18	NSYVR18	NSYTVR18
NSYSPF3100	NSYSPS5100	NSYSPF3200	NSYSPS5200	-	-	NSYVR20	NSYTVR20
NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200	-	-	NSYVR20	NSYTVR20
NSYSPF3100	NSYSPS8100	NSYSPF3200	NSYSPS8200	-	-	NSYVR20	NSYTVR20
NSYSPF4100	NSYSPS4100	NSYSPF4200	NSYSPS4200	NSYMP204 New	-	NSYVR20	NSYTVR20
NSYSPF4100	NSYSPS5100	NSYSPF4200	NSYSPS5200	NSYMP204 New	-	NSYVR20	NSYTVR20
NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	NSYMP204 New	-	NSYVR20	NSYTVR20
NSYSPF4100	NSYSPS8100	NSYSPF4200	NSYSPS8200	NSYMP204 New	-	NSYVR20	NSYTVR20
NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP206	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP208	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF10100	NSYSPS8100	NSYSPF10200	NSYSPS8200	NSYMP2010	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2012	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200	NSYMP2016	NSYSIMP20	NSYVR20	NSYTVR20
NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200	NSYMP224 New	-	NSYVR22	NSYTVR22
NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200	NSYMP226	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200	NSYMP228	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF10100	NSYSPS6100	NSYSPF10200	NSYSPS6200	NSYMP2210	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22
NSYSPF12100	NSYSPS8100	NSYSPF12200	NSYSPS8200	NSYMP2212	NSYSIMP22	NSYVR22	NSYTVR22

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

SF kit Steel floor-standing enclosures

Dimensions				Vertical uprights	Bottom frame and top frame with roof	Panels		Doors		Mounting plate
								 (Hinges, locking bar catches and handle with 5 mm double bar insert included.)	 (Securit® glass, hinges, locking bar catches and handle with 5 mm double bar insert included.)	
(A) Height (mm)	(B) Width (mm)	(C) Depth (mm)	Doors	Standard	Frames	Rear panel	Side panel	Plain	Transparent	Standard
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYMP126
1200	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYMP128
1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYMP146
1400	800	400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYMP148
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYMP166
1600	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	600	1	NSYSFV16	NSYSFC86	NSYBP168	NSY2SP166	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYMP168
1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	NSYMP184 New
1800	400	500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	NSYMP184 New
1800	400	600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	NSYMP184 New
1800	400	800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	NSYMP184 New
1800	600	400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYMP186
1800	800	400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	600	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYMP188
1800	800	800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYMP188
1800	1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYMP1810
1800	1000	500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	600	1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYMP1810
1800	1000	800	1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYMP1810
1800	1200	400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYMP1812

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SF kit Steel floor-standing enclosures

Dimensions				Vertical uprights	Bottom frame and top frame with roof	Panels		Doors		Mounting plate
								 (Hinges, locking bar catches and handle with 5 mm double bar insert included.)	 (Securit® glass, hinges, locking bar catches and handle with 5 mm double bar insert included.)	
(A) Height (mm)	(B) Width (mm)	(C) Depth (mm)	Doors	Standard	Frames	Rear panel	Side panel	Plain	Transparent	Standard
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	-
2000	300	600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	-
2000	300	800	1	NSYSFV20	NSYSFC38	NSYBP203	NSY2SP208	NSYSFD203	-	-
2000	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	NSYMP204
2000	400	500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	NSYMP204
2000	400	600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	NSYMP204
2000	400	800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	NSYMP204
2000	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYMP206
2000	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYMP208
2000	800	800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYMP208
2000	1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYMP2010
2000	1000	500	1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	500	2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYMP2010
2000	1000	600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYMP2010
2000	1000	800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	800	2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYMP2010
2000	1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYMP2016
2000	1600	500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYMP2016
2000	1600	600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYMP2016
2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	NSYMP224
2200	400	500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	NSYMP224
2200	400	600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	NSYMP224
2200	400	800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	NSYMP224
2200	600	400	1	NSYSFV22	NSYSFC64	NSYBP226	NSY2SP224	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYMP226
2200	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYMP228
2200	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYMP2212

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Side door



- Door for the side of the enclosure, replaces the side panel.
- Installation directly on the structure of the enclosure, opening 120°.
- Lock with handle and 5 mm double bar insert. 4 locking points.
- Reinforcement frame, cut-out with a pitch of 25 mm.
- Opening to right or left.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP55 according to IEC 60529

Supply:
One side door, four hinges, four catches and handle lock



NSYSFD126

Characteristics	Height (mm)	Depth (mm)	References
Spacial SF Side door	1200	600	**NSYSFD126**
Spacial SF Side door	1200	800	**NSYSFD128**
Spacial SF Side door	1400	600	**NSYSFD146**
Spacial SF Side door	1400	800	**NSYSFD148**
Spacial SF Side door	1600	600	**NSYSFD166**
Spacial SF Side door	1600	800	**NSYSFD168**
Spacial SF Side door	1800	400	**NSYSFD184**
Spacial SF Side door	1800	500	**NSYSFD185**
Spacial SF Side door	1800	600	**NSYSFD186**
Spacial SF Side door	1800	800	**NSYSFD188**
Spacial SF Side door	2000	400	**NSYSFD204**
Spacial SF Side door	2000	500	**NSYSFD205**
Spacial SF Side door	2000	600	**NSYSFD206**
Spacial SF Side door	2000	800	**NSYSFD208**
Spacial SF Side door	2200	400	**NSYSFD224**
Spacial SF Side door	2200	500	**NSYSFD225**
Spacial SF Side door	2200	600	**NSYSFD226**
Spacial SF Side door	2200	800	**NSYSFD228**

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Steel floor-standing enclosures

External fixing


NSY2SP124

- Set of 2 side panels fixed from the outside of the enclosure.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP55 according to IEC 60529

Supply:
2 side panels, with sealing gasket and bag of accessories

Characteristics	Height (mm)	Depth (mm)	References
Set of 2 side panels fixed from the outside of the enclosure	1200	400	**NSY2SP124**
Set of 2 side panels fixed from the outside of the enclosure	1200	500	**NSY2SP125**
Set of 2 side panels fixed from the outside of the enclosure	1200	600	**NSY2SP126**
Set of 2 side panels fixed from the outside of the enclosure	1200	800	**NSY2SP128**
Set of 2 side panels fixed from the outside of the enclosure	1400	400	**NSY2SP144**
Set of 2 side panels fixed from the outside of the enclosure	1400	500	**NSY2SP145**
Set of 2 side panels fixed from the outside of the enclosure	1400	600	**NSY2SP146**
Set of 2 side panels fixed from the outside of the enclosure	1400	800	**NSY2SP148**
Set of 2 side panels fixed from the outside of the enclosure	1600	400	**NSY2SP164**
Set of 2 side panels fixed from the outside of the enclosure	1600	500	**NSY2SP165**
Set of 2 side panels fixed from the outside of the enclosure	1600	600	**NSY2SP166**
Set of 2 side panels fixed from the outside of the enclosure	1600	800	**NSY2SP168**
Set of 2 side panels fixed from the outside of the enclosure	1800	400	**NSY2SP184**
Set of 2 side panels fixed from the outside of the enclosure	1800	500	**NSY2SP185**
Set of 2 side panels fixed from the outside of the enclosure	1800	600	**NSY2SP186**
Set of 2 side panels fixed from the outside of the enclosure	1800	800	**NSY2SP188**
Set of 2 side panels fixed from the outside of the enclosure	2000	400	**NSY2SP204**
Set of 2 side panels fixed from the outside of the enclosure	2000	500	**NSY2SP205**
Set of 2 side panels fixed from the outside of the enclosure	2000	600	**NSY2SP206**
Set of 2 side panels fixed from the outside of the enclosure	2000	800	**NSY2SP208**
Set of 2 side panels fixed from the outside of the enclosure	2200	400	**NSY2SP224**
Set of 2 side panels fixed from the outside of the enclosure	2200	500	**NSY2SP225**
Set of 2 side panels fixed from the outside of the enclosure	2200	600	**NSY2SP226**
Set of 2 side panels fixed from the outside of the enclosure	2200	800	**NSY2SP228**

Internal fixing


NSY2SPI126

- Set of 2 side panels fixed from the enclosure, helping prevent access by unauthorized persons.
- Very useful in public spaces.
- Material: Steel
- Finish: Painted with epoxy polyester resin
- Colour: RAL 7035 grey
- Ingress protection rating: IP55 according to IEC 60529

Supply:
2 side panels, with sealing gasket and bag of accessories

Characteristics	Height (mm)	Depth (mm)	References
Set of 2 side panels fixed from the enclosure	1200	600	**NSY2SPI126**
Set of 2 side panels fixed from the enclosure	1800	500	**NSY2SPI185**
Set of 2 side panels fixed from the enclosure	1800	600	**NSY2SPI186**
Set of 2 side panels fixed from the enclosure	1800	800	**NSY2SPI188**
Set of 2 side panels fixed from the enclosure	2000	400	**NSY2SPI204**
Set of 2 side panels fixed from the enclosure	2000	500	**NSY2SPI205**
Set of 2 side panels fixed from the enclosure	2000	600	**NSY2SPI206**
Set of 2 side panels fixed from the enclosure	2000	800	**NSY2SPI208**
Set of 2 side panels fixed from the enclosure	2200	600	**NSY2SPI226**
Set of 2 side panels fixed from the enclosure	2200	800	**NSY2SPI228**

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Steel floor-standing enclosures

Internal fixing rear panel

- Rear panel fixed from the inside of the enclosure, helping prevent unauthorized personnel from accessing and removing it. Normally used in public spaces.
- Material: Steel
- Finish: Painted wih epoxy polyester resin
- Colour: RAL 7035 grey
- Ingress protection rating: IP55 according to IEC 60529

Supply:
1 rear panel and fixing elements



NSYBPI1810

Characteristics	Height (mm)	Depth (mm)	References
Rear panel fixed from the inside of the enclosure	1800	1000	**NSYBPI1810**
Rear panel fixed from the inside of the enclosure	2000	600	**NSYBPI206**
Rear panel fixed from the inside of the enclosure	2000	800	**NSYBPI208**
Rear panel fixed from the inside of the enclosure	2000	1000	**NSYBPI2010**
Rear panel fixed from the inside of the enclosure	2200	800	**NSYBPI228**
Rear panel fixed from the inside of the enclosure	2200	1000	**NSYBPI2210**

Partition panel

- Partition panel for direct fixing to the structure, helps guarantee a water/dustproof protection of IP10 between enclosure suites.
- Material: Galvanised steel
- Colour: RAL 7035 grey
- Ingress protection rating: IP55 according to IEC 60529

Supply:
1 partition panel, sealing gasket and fixing elements



NSYPPS166

Characteristics	Height (mm)	Depth (mm)	References
Spacial SF partition panel	1600	600	**NSYPPS166**
Spacial SF partition panel	1600	800	**NSYPPS168**
Spacial SF partition panel	1800	400	**NSYPPS184**
Spacial SF partition panel	1800	500	**NSYPPS185**
Spacial SF partition panel	1800	600	**NSYPPS186**
Spacial SF partition panel	2000	400	**NSYPPS204**
Spacial SF partition panel	2000	500	**NSYPPS205**
Spacial SF partition panel	2000	600	**NSYPPS206**
Spacial SF partition panel	2000	800	**NSYPPS208**
Spacial SF partition panel	2200	600	**NSYPPS226**
Spacial SF partition panel	2200	800	**NSYPPS228**

Accessories

- Trim cap for external fixing panels, both sides and rear
- Material: Polyamide 6
- Colour: RAL 7035 grey

Supply:
50 units



NSYCSP

Characteristics	References
Trim cap for external fixing panels	**NSYCSP**

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Steel floor-standing enclosures

SF Standard coupling kit

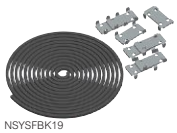

NSYSFBK

- Used for joining enclosures side-to-side or depthwide.
- Fixing from the inside of the enclosure.
- Material: Flat connectors and brackets: Zinc-coated steel
  Sealing gasket: EPDM

Supply:
4 brackets, 2 flat connectors, sealing gasket and fixing elements and 16 caps

Characteristics	References
Spacial SF Standard coupling kit	**NSYSFBK**

SF Swing 19" rack coupling kit


NSYSFBK19

- Used for joining enclosures equipped with swing 19" rack, side-to-side or depthwise.
- Fixing from the inside of the enclosures.
- Material: Flat connectors: Zinc-coated steel
  Sealing gasket: EPDM

Supply:
8 flat connectors, sealing gasket and fixing elements and 16 caps

Characteristics	References
Spacial SF-19" Swing 19" rack coupling kit	**NSYSFBK19**

SF Reinforced coupling


NSYSFBKR

- It is used together with the coupling kit to reinforce the connection between 2 enclosures when they carry heavy loads.
- Fixing from the inside of the enclosures.
- Material: Zinc-coated steel

Supply:
4 reinforced connectors and fixing elements

Characteristics	References
Spacial SF Reinforced coupling	**NSYSFBKR**

SF Quick coupling


NSYSFBKF

- Used for quickly joining 2 enclosures.
- Fixing from the inside of the enclosures.
- Material: Zinc-coated steel

Supply:
4 flat links and fixing elements

Characteristics	References
Spacial SF Quick coupling, IP 40	**NSYSFBKF**

SF Kit for coupling the previous version with Spacial SF


NSYSFBKSH

- It is used for coupling an enclosure of a previous version (OLN or Spacial 6000) side-to-side or depthwise with a Spacial SF enclosure.
- Fixing from the inside of the enclosures.
- Material: Flat connectors and spacers: Zinc-coated steel
  Sealing gasket: EPDM

Supply:
6 flat connectors, sealing gasket and fixing elements

Characteristics	References
Spacial SF Kit for coupling the previous version with Spacial SF	**NSYSFBKSH**

SF External coupling

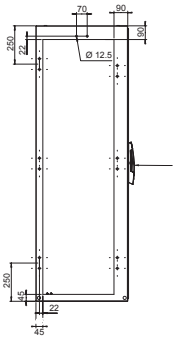

NSYSFBKE

- Allows two enclosures to be joined by their structure.
- To be used with the standard coupling kit in those cases where front and back uprights are not accesibles.
- The mounting plate or vertical uprights fixed to the back of the enclosure help prevent the assembly and dismantling of the kit.
- It can be combined with the reinforced or the quick coupling kit.
- Material: External connectors: Zinc-coated steel

Supply:
4 external connectors and fixing elements

Characteristics	References
Spacial SF External coupling	**NSYSFBKE**

SM Enclosure coupling kit for Spacial SM




NSYSMBK

- Used for joining enclosuresside-to-side.
- Enclosures fixed from the inside.
- Material: 3 x 10 mm sealing gasket: EPDM

Supply:
1 sealing gasket and fixing elements

Characteristics	References
Spacial SM Enclosure coupling kit for Spacial SM	**NSYSMBK**

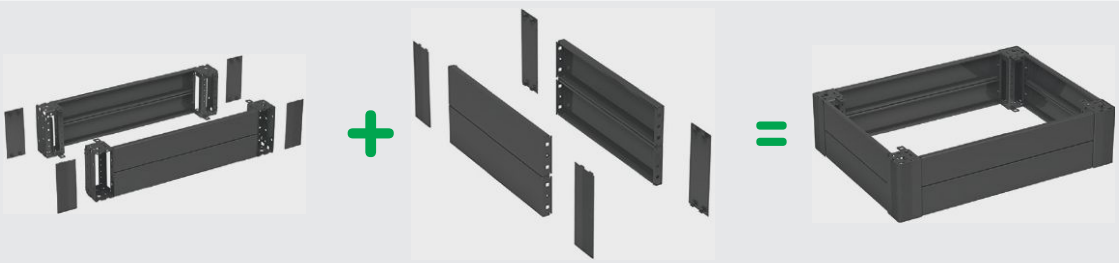
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3

Plinth as a kit

The complete plinth consists of two elements, one is the front and rear kit, determined by the length of the enclosure, and the other consists of the side panels, which determine the depth of the enclosure. The number of side panels required is decided according to the desired plinth combination.

Robust design.
The modular plinth system makes it possible to reduce the number of references in stock.

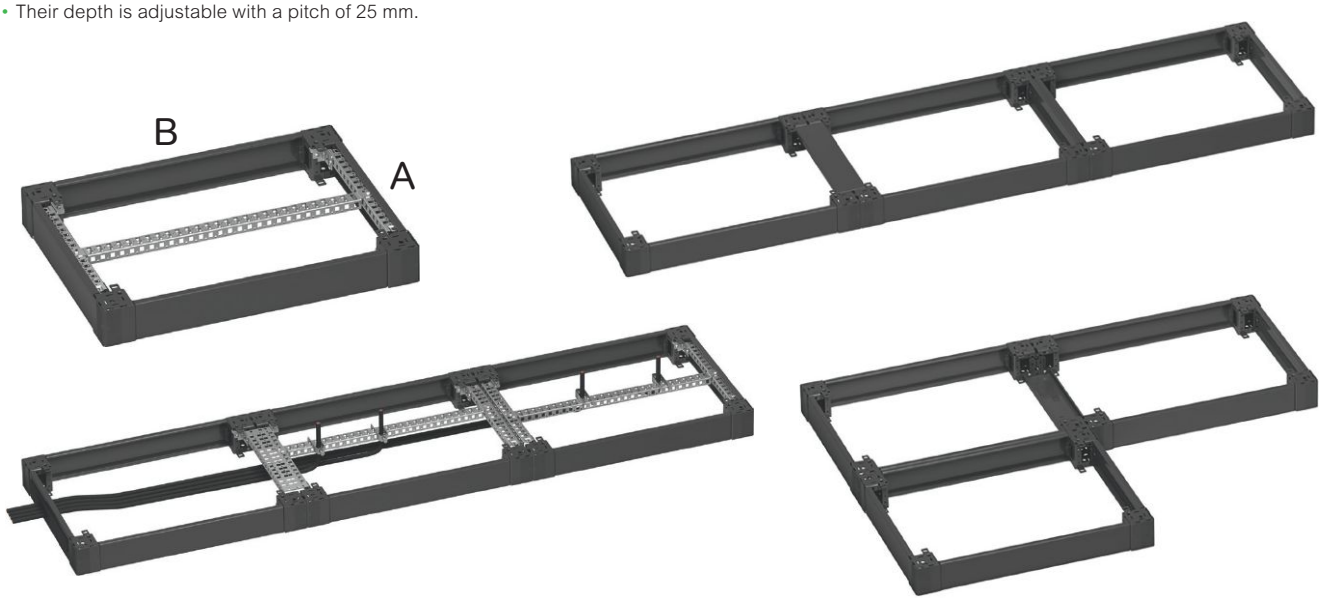
Characteristics	Front and rear kit	Side panels	Complete plinth
Plinth height 100 mm			
Plinth height 200 mm			

Floor

Examples of solutions

Plinth cross rail fixed in position B, it requires 2 cross rails in position A to be fixed

- They are fixed to the plinth cross rails, both the universal and the quick fixing types.
- Their depth is adjustable with a pitch of 25 mm.

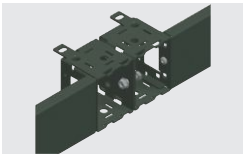


Comment: Universal and quick fixing cross rail references, page 244

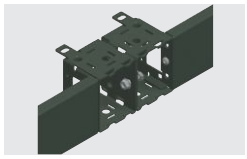
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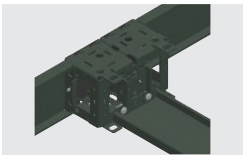
Steel floor-standing enclosures

Possibility of joining plinths

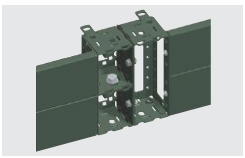


The surfaces between corners are always in contact.
They are joined by a M8 screw and nut, not included in the standard supply.
⊕ Longitudinally free space for passing cables
⊕ Greater rigidity of the resultant assembly unit



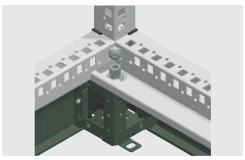


By side panels
the M6 screws and caged nuts, not included in the standard supply, reference **NSYSPM6** and reference **NSYCN9M625**, which can be mounted above and/or below.
⊕ Improves rigidity in the depthwise direction during transport

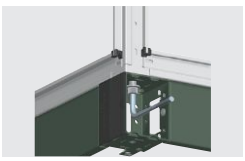


Vertical plinth assembly
by means of M12 screws and nuts, not included in the standard supply.
⊕ The two heights of corners can be combined

Possibility of fixing the enclosure to the plinth

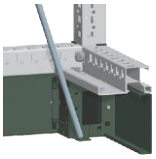


Fixing from the inside of the enclosure
by means of an M12 screw, screwing directly into the corner of the plinth.
⊕ Fixing convenience and speed



Fixing from the outside of the enclosure
with a M12 screw, screwing directly onto the vertical upright.
⊕ Maximum rigidity of the enclosure-plinth assembly

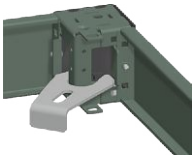
Possibility of fixing the plinth to the floor



Fixing from the inside of the enclosure.
The machining angle varies according to the plinth model:
- Plinth height 100 mm φ = 18°.
- Plinth height 200 mm φ = 9°.



Fixing from the outside of the enclosure, optimum point for the rigidity of the assembly.
The machining angle varies according to the plinth model:
- Plinth height 100 mm φ = 22°.
- Plinth height 200 mm φ = 11°.



It is also possible to use floor-fixing supports
- reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.

The corners of the ends can be rotated in the event of needing to remove the side panels of the plinth and/or to obtain access to the fixing outside the floor, when the set is installed against the wall.

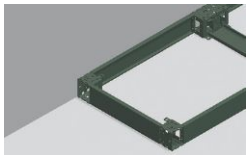
Fixing the enclosure to the ground



Fixing from the outside of the enclosure
optimum point for the rigidity of the assembly.

The machining angle varies according to the plinth model:
- Plinth height 100 mm φ = 22°.
- Plinth height 200 mm φ = 11°.

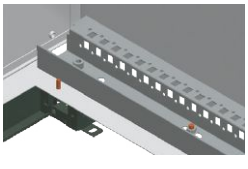
Fixing the enclosure to the ground



Enclosure against a wall
Thanks to the design of the corners, when the enclosure is installed against the wall, the following is possible:
- to remove the side panels (turning back corners),
- to access the external fixing to the floor.

It is also possible to use floor-fixing supports, reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.

Fixing the enclosure to the plinth



Fixing from the inside of the enclosure
by means of a M12 screw, screwing directly into the corner of the plinth
⊕ Fixing convenience and speed.

Assembly of the plinth panels

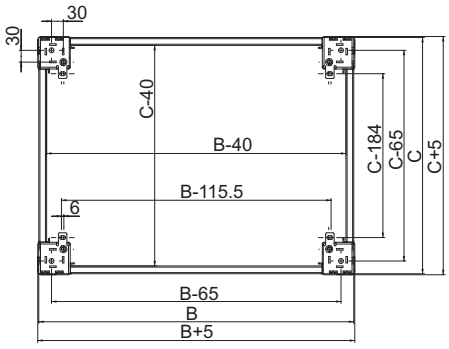


The panels are fixed with an M6 screw to the corner
included in the standard supply of the side panels.
- The front and rear panels are delivered mounted on the corners

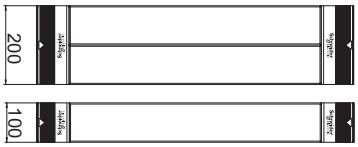
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Steel floor-standing enclosures

Front and rear plinths



B: Width
C: Height



- The front and rear of the plinth consists of 4 corners with 2 or 4 panels.
- Material: Folded sheet steel, corner with a thickness of 25/10e mm
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7022 grey
- Ingress protection rating: IP30 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements
Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements

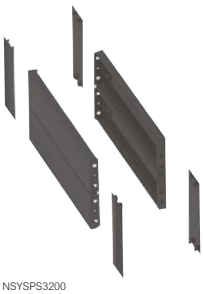

NSYSPF3100


NSYSPF3200

Characteristics	Height (mm)	Width (mm)	References
Front plinths for Spacial	100	300	**NSYSPF3100**
Front plinths for Spacial	100	400	**NSYSPF4100**
Front plinths for Spacial	100	600	**NSYSPF6100**
Front plinths for Spacial	100	800	**NSYSPF8100**
Front plinths for Spacial	100	1000	**NSYSPF10100**
Front plinths for Spacial	100	1200	**NSYSPF12100**
Front plinths for Spacial	100	1600	**NSYSPF16100**
Front plinths for Spacial	200	300	**NSYSPF3200**
Front plinths for Spacial	200	400	**NSYSPF4200**
Front plinths for Spacial	200	600	**NSYSPF6200**
Front plinths for Spacial	200	800	**NSYSPF8200**
Front plinths for Spacial	200	1000	**NSYSPF10200**
Front plinths for Spacial	200	1200	**NSYSPF12200**
Front plinths for Spacial	200	1600	**NSYSPF16200**

Plinth side panels


NSYSPS3100


NSYSPS3200

- They are fixed to the corner of the plinth by 2 fixing screws.
- Material: Folded sheet steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7022 grey
- Ingress protection rating: IP30 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
Height 100 mm: 2 side panels, 4 corner covers and fixing elements
Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements

Characteristics	Height (mm)	Depth (mm)	References
Side plinths for Spacial	100	300	**NSYSPS3100**
Side plinths for Spacial	100	400	**NSYSPS4100**
Side plinths for Spacial	100	500	**NSYSPS5100**
Side plinths for Spacial	100	600	**NSYSPS6100**
Side plinths for Spacial	100	800	**NSYSPS8100**
Side plinths for Spacial	200	300	**NSYSPS3200**
Side plinths for Spacial	200	400	**NSYSPS4200**
Side plinths for Spacial	200	500	**NSYSPS5200**
Side plinths for Spacial	200	600	**NSYSPS6200**
Side plinths for Spacial	200	800	**NSYSPS8200**

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Steel floor-standing enclosures

Ventilated front plinth



NSYSPFV6100

- The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.
- Material: Folded sheet steel, corner with a thickness of 25/10e mm
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7022 grey
- Ingress protection rating: IP20 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
Height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements

Characteristics	Height (mm)	Width (mm)	References
Ventilated front plinth for Spacial SF-SM	100	600	**NSYSPFV6100**
Ventilated front plinth for Spacial SF-SM	100	800	**NSYSPFV8100**

Ventilated side panels



NSYSPV6100

- They are fixed to the corner of the plinth by fixing screws.
- Material: Folded sheet steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7022 grey
- Ingress protection rating: IP20 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 6226

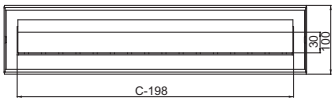
Supply:
Height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements

Characteristics	Height (mm)	Depth (mm)	References
Ventilated side panels for Spacial SF-SM	100	600	**NSYSPV6100**
Ventilated side panels for Spacial SF-SM	100	800	**NSYSPV8100**

Panels with brush



NSYSPB6100



- They allow the entry and fixing of cables inside the enclosure, through the plinth.
- Material: Folded sheet steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7022 grey
- Ingress protection rating: IP20 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 6226

Supply:
Height 100 mm: 2 panels with brushes, 4 corner covers and fixing elements

Characteristics	Height (mm)	Depth (mm)	References
Panels with brush for Spacial SF-SM	100	600	**NSYSPB6100**
Panels with brush for Spacial SF-SM	100	800	**NSYSPB8100**

Stainless steel plinths (standard plinths page 140, ventilated plinths page 413) are compatible with steel floor-standing enclosure SM and SF using an earthing cable reference **NSYEL226D13** (description page 295) to be ordered separatly.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel floor-standing enclosures

Fixing to the floor





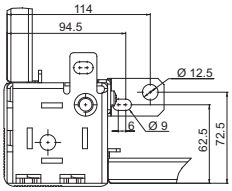
NSYSGF

- Part for fixing the plinth to the floor in the event of not being able to use the drillholes made in the plinth.
- Material: Steel
- Finish: Zinc-coated

Supply:
4 pieces, fixing element not supplied

Characteristics	References
Spacial SF-Fixing to the floor	**NSYSGF**

Fixing to the floor by fixing points of previous version (OLN/CMO or Spacial 6000 and 18500)







NSYOL6GF

- Parts that reproduce the floor-fixing points of the previous plinth.
- Material: Steel
- Finish: Zinc-coated

Supply:
4 pieces, fixing elements not supplied

Characteristics	References
Fixing to the floor by fixing points of previous version	**NSYOL6GF**

Plinth cross rail support



Comment:
Reference by unit Order by multiples of 12 (12, 24, 36…)



NSYSPCR

- Support for fixing a cross rail inside the plinth.
- Material: Steel
- Finish: Zinc-coated

Supply:
12 pieces and fixing elements

Characteristics	References
Spacial SF-Plinth cross rail support, 100 mm	**NSYSPCR**

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Life Is On Schneider Electric

Steel floor-standing enclosures

Plinth cross rails





- They are fixed across the width and/or depth between the corners of the plinth.
- The plinth cross rail supports are required for its assembly.
- Material: Steel
- Finish: Zinc-coated

Supply:
2 cross rails and fixing elements



NSYSUCR4030

Characteristics	Cross rails	Width (mm)	Depth (mm)	References
Plinth cross rails for Spacial SF-SM	1 row (40)	400	-	**NSYSUCR4030**
Plinth cross rails for Spacial SF-SM	1 row (40)	600	-	**NSYSUCR4050**
Plinth cross rails for Spacial SF-SM	1 row (40)	800	-	**NSYSUCR4070**
Plinth cross rails for Spacial SF-SM	1 row (40)	1000	-	**NSYSUCR4090**
Plinth cross rails for Spacial SF-SM	1 row (40)	1200	-	**NSYSUCR40110**
Plinth cross rails for Spacial SF-SM	3 row (90)	400	-	**NSYSUCR9030**
Plinth cross rails for Spacial SF-SM	3 row (90)	600	-	**NSYSUCR9050**
Plinth cross rails for Spacial SF-SM	3 row (90)	800	-	**NSYSUCR9070**
Plinth cross rails for Spacial SF-SM	3 row (90)	1000	-	**NSYSUCR9090**
Plinth cross rails for Spacial SF-SM	3 row (90)	1200	-	**NSYSUCR90110**
Plinth cross rails for Spacial SF-SM	1 row (40)	-	500	**NSYSUCR4040**
Plinth cross rails for Spacial SF-SM	3 row (90)	-	500	**NSYSUCR9040**

Fixing options, Screw M6



NSYSPM6

- M6 x 10 mm

Supply:
50 screws

Characteristics	References
Screw M6	**NSYSPM6**

Fixing options, Caged nuts



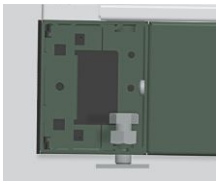
NSYCN9M625

- M6 caged nuts.

Supply:
100 caged nuts.

Characteristics	References
Caged nuts	**NSYCN9M625**

Fixing options, Levelling the plinth



NSYSPLK

- The plinth allows levelling by means of a M12 screw.

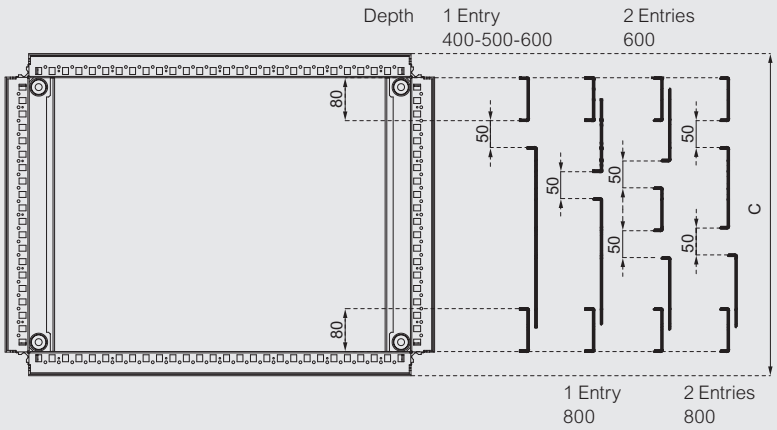
Characteristics	References
Levelling the plinth	**NSYSPLK**

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Steel floor-standing enclosures

Cable entries

Possibilities of cable gland plate adjustment



Plain cable gland plate

- The design of the compact cable gland plate, coupled with the use of the sealing gasket **NSYCEK** enable the maximum dust/water tightness.
- Material: Steel painted with epoxy polyester resin
- Colour: RAL 7035 grey
- Thicknesses: 10/10[e] mm

Supply:
Plain plate and fixing elements

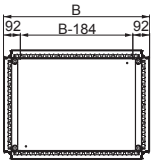

NSYSMEC63

Characteristics	Width (mm)	Depth (mm)	References
Spacial SM Plain cable gland plate	600	300	**NSYSMEC63**
Spacial SM Plain cable gland plate	600	400	**NSYSMEC64**
Spacial SM Plain cable gland plate	600	500	**NSYSMEC65**
Spacial SM Plain cable gland plate	600	600	**NSYSMEC66**
Spacial SM Plain cable gland plate	800	300	**NSYSMEC83**
Spacial SM Plain cable gland plate	800	400	**NSYSMEC84**
Spacial SM Plain cable gland plate	800	500	**NSYSMEC85**
Spacial SM Plain cable gland plate	800	600	**NSYSMEC86**
Spacial SM Plain cable gland plate	1000	300	**NSYSMEC103**
Spacial SM Plain cable gland plate	1000	400	**NSYSMEC104**
Spacial SM Plain cable gland plate	1000	500	**NSYSMEC105**
Spacial SM Plain cable gland plate	1200	300	2x **NSYSMEC63**
Spacial SM Plain cable gland plate	1200	400	2x **NSYSMEC64**
Spacial SM Plain cable gland plate	1200	500	2x **NSYSMEC65**
Spacial SM Plain cable gland plate	1200	600	2x **NSYSMEC66**
Spacial SM Plain cable gland plate	1600	400	2x **NSYSMEC84**
Spacial SM Plain cable gland plate	1600	500	2x **NSYSMEC85**
Spacial SM Plain cable gland plate	1600	600	2x **NSYSMEC86**

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Life Is On Schneider Electric

Plain cable gland plate



- The design of the compact cable gland plate, coupled with the use of the sealing gasket **NSYCEK** enable the maximum dust/water tightness.
- Material: Galvanised steel
- Thicknesses: 15/10e mm

Supply:
Plain plate and fixing elements

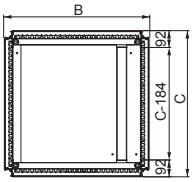

NSYEC35

Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Spacial SF Plain cable gland plate	300	500	**NSYEC35**
Spacial SF Plain cable gland plate	300	600	**NSYEC36**
Spacial SF Plain cable gland plate	400	400	**NSYEC44**
Spacial SF Plain cable gland plate	400	500	**NSYEC45**
Spacial SF Plain cable gland plate	400	600	**NSYEC64**
Spacial SF Plain cable gland plate	400	800	**NSYEC84**
Spacial SF Plain cable gland plate	600	400	**NSYEC64**
Spacial SF Plain cable gland plate	600	500	**NSYEC65**
Spacial SF Plain cable gland plate	600	600	**NSYEC66**
Spacial SF Plain cable gland plate	600	800	**NSYEC68**
Spacial SF Plain cable gland plate	800	400	**NSYEC84**
Spacial SF Plain cable gland plate	800	500	**NSYEC85**
Spacial SF Plain cable gland plate	800	600	**NSYEC86**
Spacial SF Plain cable gland plate	800	800	**NSYEC88**
Spacial SF Plain cable gland plate	1000	400	**NSYEC104**
Spacial SF Plain cable gland plate	1000	500	**NSYEC105**
Spacial SF Plain cable gland plate	1000	600	**NSYEC106**
Spacial SF Plain cable gland plate	1000	800	**NSYEC108**
Spacial SF Plain cable gland plate	1200	400	**NSYEC124**
Spacial SF Plain cable gland plate	1200	500	**NSYEC125**
Spacial SF Plain cable gland plate	1200	600	**NSYEC126**
Spacial SF Plain cable gland plate	1200	800	**NSYEC128**
Spacial SF Plain cable gland plate	1600	400	**NSYEC164**
Spacial SF Plain cable gland plate	1600	500	**NSYEC165**
Spacial SF Plain cable gland plate	1600	600	**NSYEC166**

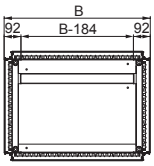
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Steel floor-standing enclosures

Plate with 1 entry



Enclosures of 300 and 400 mm width.



Enclosures of 600, 800, 1000 and 1200 mm width.

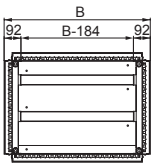
Supply:
Plate with 1 entry; Self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (helps guarantee good sealing) and fixing elements

- Facilitates the entry of cables thanks to a longitudinal opening.
- Material: Galvanised steel
- Thicknesses: 15/10[e] mm


NSYEC351

Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Spacial SF Plate with 1 entry	300	500	**NSYEC351**
Spacial SF Plate with 1 entry	300	600	**NSYEC361**
Spacial SF Plate with 1 entry	400	400	**NSYEC441**
Spacial SF Plate with 1 entry	400	500	**NSYEC451**
Spacial SF Plate with 1 entry	400	600	**NSYEC461**
Spacial SF Plate with 1 entry	400	800	**NSYEC481**
Spacial SF Plate with 1 entry	600	400	**NSYEC641**
Spacial SF Plate with 1 entry	600	500	**NSYEC651**
Spacial SF Plate with 1 entry	600	600	**NSYEC661**
Spacial SF Plate with 1 entry	600	800	**NSYEC681**
Spacial SF Plate with 1 entry	800	400	**NSYEC841**
Spacial SF Plate with 1 entry	800	500	**NSYEC851**
Spacial SF Plate with 1 entry	800	600	**NSYEC861**
Spacial SF Plate with 1 entry	800	800	**NSYEC881**
Spacial SF Plate with 1 entry	1000	400	**NSYEC1041**
Spacial SF Plate with 1 entry	1000	500	**NSYEC1051**
Spacial SF Plate with 1 entry	1000	600	**NSYEC1061**
Spacial SF Plate with 1 entry	1000	800	**NSYEC1081**
Spacial SF Plate with 1 entry	1200	400	**NSYEC1241**
Spacial SF Plate with 1 entry	1200	500	**NSYEC1251**
Spacial SF Plate with 1 entry	1200	600	**NSYEC1261**
Spacial SF Plate with 1 entry	1200	800	**NSYEC1281**
Spacial SF Plate with 1 entry	1600	400	**NSYEC1641**
Spacial SF Plate with 1 entry	1600	500	**NSYEC1651**
Spacial SF Plate with 1 entry	1600	600	**NSYEC1661**

Plate with 2 entries



Supply:
1 plate with 2 entries; Polyurethane adhesive gasket with cross-section of 15 x 25 mm (helps guarantee good sealing) and fixing elements

- Cable entry for very deep enclosures (600 and 800 mm).
- Two longitudinal openings allowing a large number of cables through.
- Material: Galvanised steel
- Thicknesses: 15/10[e] mm


NSYEC662

Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Spacial SF Plate with 2 entries	600	600	**NSYEC662**
Spacial SF Plate with 2 entries	600	800	**NSYEC682**
Spacial SF Plate with 2 entries	800	600	**NSYEC862**
Spacial SF Plate with 2 entries	800	800	**NSYEC882**
Spacial SF Plate with 2 entries	1000	600	**NSYEC1062**
Spacial SF Plate with 2 entries	1000	800	**NSYEC1082**
Spacial SF Plate with 2 entries	1200	600	**NSYEC1262**
Spacial SF Plate with 2 entries	1200	800	**NSYEC1282**
Spacial SF Plate with 2 entries	1600	600	**NSYEC1662**

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Steel floor-standing enclosures

SF Cable gland plate for connectors

- Adapter plate to install cable entry plates for connectors, see page 275.
- To be used together with cable gland plates, 1 or 2 entries, adding or replacing one of the parts.
- Material: Galvanised steel
- Thicknesses: 15/10e mm

Supply:
Plate and fixing elements


NSYDCE8

Characteristics	No. of cuts	Width (mm)	References
Spacial SF Cable gland plate for connectors	2	600	**NSYDCE6**
Spacial SF Cable gland plate for connectors	3	800	**NSYDCE8**
Spacial SF Cable gland plate for connectors	4	1000	**NSYDCE10**
Spacial SF Cable gland plate for connectors	4	1200	**NSYDCE12**

SF Brush-type cable entry gasket

- For plates with 1 or 2 cable entries.
- The cables can have different diameters.


NSYBCE4

Characteristics	Width (mm)	References
Spacial SF Brush-type cable entry gasket	400	**NSYBCE4**
Spacial SF Brush-type cable entry gasket	600	**NSYBCE6**
Spacial SF Brush-type cable entry gasket	800	**NSYBCE8**
Spacial SF Brush-type cable entry gasket	1000	**NSYBCE10**
Spacial SF Brush-type cable entry gasket	1200	**NSYBCE12**
Spacial SF Brush-type cable entry gasket	1600	**NSYBCE16**

SM Brush-type cable entry gasket

- Brush-type gasket for installation on the cable gland plates.
- The cables can have different diameters.


NSYSMBCE6

Characteristics	Width (mm)	References
Spacial SM-Brush-type cable entry gasket	600	**NSYSMBCE6**
Spacial SM-Brush-type cable entry gasket	800	**NSYSMBCE8**
Spacial SM-Brush-type cable entry gasket	1000	**NSYSMBCE10**
Spacial SM-Brush-type cable entry gasket	1200	2x **NSYSMBCE6**
Spacial SM-Brush-type cable entry gasket	1600	2x **NSYSMBCE8**

SF Foam cable entry gasket

- Spare gasket, made from self-extinguishing expanded polyurethane with a cross-section of 15 x 25 mm, for fixing on cable gland plates.


NSYCEJ

Characteristics	References
Spacial SF Foam cable entry gasket	**NSYCEJ**

SF Sealing gasket

- Sealing gasket, made from ethylene-propylene with a cross-section of 3 x 10 mm, for mounting on the perimeter of the cable gland plates. Adhesive to help guarantee good sealing.


NSYCEK

Characteristics	References
Spacial SF Sealing gasket	**NSYCEK**

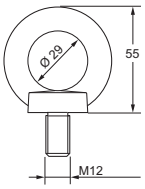
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3

Lifting systems

SF Eyebolts


NSYSFEB





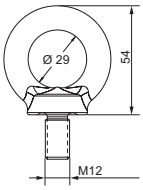
- Set of M12 lifting eyebolts, which screw directly into the structure of the enclosure, in the axis of the uprights.
- Material: Galvanised cast steel
- Maximum load: 340 kg
- Maximum amount of assembled enclosures to be lifted: 1

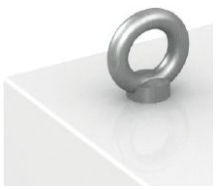
Supply:
4 eyebolts

Characteristics	Enclosures to be lifted	Max. load (kg)	References
Spacial SF Eyebolts	**1**	**340**	**NSYSFEB**

SM Eyebolts


NSYSMEB





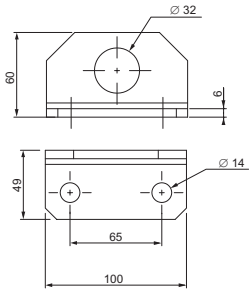
- Set of M12 lifting eyebolts, fixed to the enclosure by fixing nuts.
- Material: Galvanised cast steel
- Maximum load: 340 kg
- Maximum amount of assembled enclosures to be lifted: 1

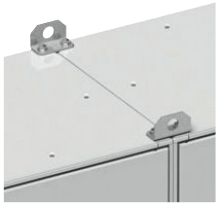
Supply:
4 eyebolts and
4 fixing nuts

Characteristics	Enclosures to be lifted	Max. load (kg)	References
Spacial SM Eyebolts	**1**	**340**	**NSYSMEB**

SF Lifting brackets


NSYSFELB





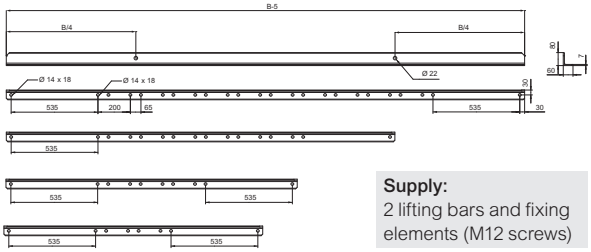
- Set of lifting and transport brackets, fixed to the structure between two coupled enclosures, in the axis of the uprights.
- Material: Zinc-coated steel
- Maximum load: 500 kg
- Maximum amount of assembled enclosures to be lifted: 2

Supply:
4 brackets and fixing elements (M12 screws)

Characteristics	Enclosures to be lifted	Max. load (kg)	References
Spacial SF Lifting brackets	**2**	**500**	**NSYSFELB**

SF Lifting bar


NSYSFTB16



- Set of bars for lifting and transporting enclosures suites.
- They are fixed to the structure of the enclosure, in the axis of the uprights.
- Material: Steel

Supply:
2 lifting bars and fixing elements (M12 screws)

Characteristics	Length (mm)	Enclosures to be lifted	Max. load (kg)	References
Spacial SF Lifting bar	**1600**	**2**	**2000**	**NSYSFTB16**
Spacial SF Lifting bar	**1800**	**3**	**3000**	**NSYSFTB18**
Spacial SF Lifting bar	**2400**	**4**	**3000**	**NSYSFTB24**
Spacial SF Lifting bar	**3200**	**5**	**4000**	**NSYSFTB32**

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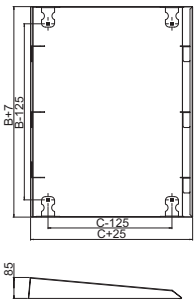
Steel floor-standing enclosures

Roof Canopy



NSYSC630

- Provides excellent protection against splashes from rainwater.
- Canopy mandatory for outdoor use, not compatible with the simultaneous use of lifting elements.
- Spacial SF: It is possible to use a single canopy with combinations of modular enclosures (example of a 1600 mm canopy with two coupled 800 mm enclosures).
- Material: Galvanised steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey



Fixing:
Spacial SF: Fixing by drill holes to be made in the roof of the enclosure
Spacial SM: Fixing by drill holes already made in the roof

Supply:
One canopy, drilling template and fixing elements

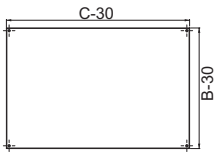
Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Spacial SF/SM Canopy	600	300	**NSYSC630**
Spacial SF/SM Canopy	600	400	**NSYSC640**
Spacial SF/SM Canopy	600	500	**NSYSC650**
Spacial SF/SM Canopy	600	600	**NSYSC660**
Spacial SF/SM Canopy	800	300	**NSYSC830**
Spacial SF/SM Canopy	800	400	**NSYSC840**
Spacial SF/SM Canopy	800	500	**NSYSC850**
Spacial SF/SM Canopy	800	600	**NSYSC860**
Spacial SF/SM Canopy	1000	300	**NSYSC1030**
Spacial SF/SM Canopy	1000	400	**NSYSC1040**
Spacial SF/SM Canopy	1000	500	**NSYSC1050**
Spacial SF/SM Canopy	1000	600	**NSYSC1060**
Spacial SF/SM Canopy	1200	300	**NSYSC1230**
Spacial SF/SM Canopy	1200	400	**NSYSC1240**
Spacial SF/SM Canopy	1200	500	**NSYSC1250**
Spacial SF/SM Canopy	1200	600	**NSYSC1260**
Spacial SF/SM Canopy	1600	400	**NSYSC1640**
Spacial SF/SM Canopy	1600	500	**NSYSC1650**
Spacial SF/SM Canopy	1600	600	**NSYSC1660**
Spacial SF/SM Canopy	1800	500	**NSYSC1850**
Spacial SF/SM Canopy	1800	600	**NSYSC1860**
Spacial SF/SM Canopy	2000	500	**NSYSC2050**
Spacial SF/SM Canopy	2000	600	**NSYSC2060**
Spacial SF/SM Canopy	2400	500	**NSYSC2450**
Spacial SF/SM Canopy	2400	600	**NSYSC2460**

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Steel floor-standing enclosures

Ventilated roof





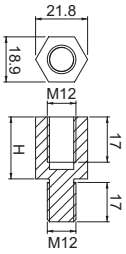
- Roof providing natural ventilation for the enclosure, with IP30 protection.
- Height: An extra 63 mm in relation to the structure.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Fixing: They are screwed onto the structure, at the roof fixing point

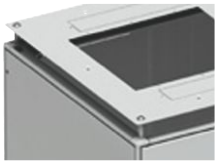
Supply:
One ventilated roof and four elevators


NSYSVR606

Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Spacial SF Ventilated roof	600	600	**NSYSVR606**
Spacial SF Ventilated roof	600	800	**NSYSVR608**
Spacial SF Ventilated roof	800	600	**NSYSVR806**
Spacial SF Ventilated roof	800	800	**NSYSVR808**

Ventilation elevators for roof





Supply:
4 elevators

- Allows the roof to be raised, providing natural ventilation.
- They are screwed onto the structure, at the roof fixing point.
- Material: Zinc-coated steel


NSYRE26

Characteristics	(H) Height (mm)	IP	References
Spacial SF Ventilation elevators for roof	23	10	**NSYRE26**
Spacial SF Ventilation elevators for roof	60	00	**NSYRE60**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Life Is On Schneider Electric

Steel floor-standing enclosures

FL21 cable entry membranes

- Membrane plate for watertight cable entries made from insulating material (fireresistance level UL 94 V-0).
- Direct installation in the FL21 cable entry plate adapter.
- 4 models: Plain plate and membrane plates from 7 to 37 cable entries.
- Material: Grey plastic
- Ingress protection rating: IP66 according to IEC 60529

Comment:
For more information, see page 275

Supply:
Membrane plate and fixing elements.


NSYAECPFLT25

Characteristics	No. of entries	References
FL21 plain metallic plate	0	**NSYAECPFLBP**
FL21 cable entry membranes	7	**NSYAECPFLT7**
FL21 cable entry membranes	27	**NSYAECPFLT25**
FL21 cable entry membranes	37	**NSYAECPFLT35**

Standard cable entry plate


NSYTLC

- Thickness: 15/10e mm

Comment:
For more information, see page 275

Characteristics	References
Standard cable entry plate	**NSYTLC**

Aluminium cable entry plate


NSYTLCU

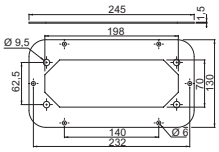
- Thickness: 30/10e mm

Characteristics	References
Aluminium cable entry plate	**NSYTLCU**

FlexiCable

Characteristics	References
FlexiCable	**NSYTLCME**

Adapter for FL21 cable entry plate



- Thickness: 15/10e mm

Characteristics	References
Adapter for FL21 cable entry plate	**NSYTLCFL**

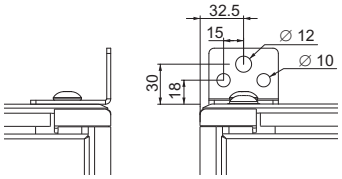
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Wall fixing

SF Wall fixing support


NSYSFWFIX

- Supports for fixing the enclosure on the wall and helping prevent it from turning over.
- They cannot be used for hanging the enclosure.
- They are installed using the roof mounting screws.
- Material: Zinc-coated steel sheet



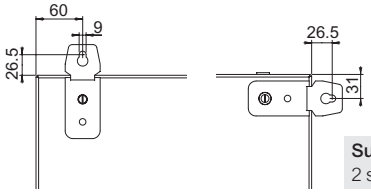
Supply:
2 supports

Characteristics	References
Spacial SF Wall fixing support	**NSYSFWFIX**

SM Wall fixing support


NSYSMWFIX

- Supports for fixing the enclosure on the wall and helping prevent it from turning over.
- They are installed using the drill holes in the back of the enclosure.
- Enclosure fixed from the outside.
- Material: Zinc-coated steel sheet



Supply:
2 supports

Characteristics	References
Spacial SM Wall fixing support	**NSYSMWFIX**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel floor-standing enclosures

Doors SF SM

Inner door

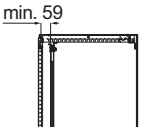
SF



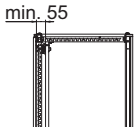
NSYID166

- Door for additional protection. Helps prevent the switchgear from being manipulated by unauthorised personnel.
- Allows the installation of switchgear mounted directly on the door.
- Mounting on the top and bottom frame of the enclosure.
- Depth adjustable with a pitch of 25 mm, from the first fixing point.
- Opening to right or left, with two locks, 3 mm double bar, with central handle.
- Reinforcement frames on the rear, cut-outs with a 25 mm pitch, for equipping the door.
- Maximum acceptable load: 15 kg.
- Inner doors can be mounted in our stainless steel floor-standing enclosures (SFX and SMX).
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

SF



SM



Comment:
Dimensions, see page 17

Supply:
One inner door and fixing elements

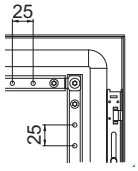
SM



NSYID166

Characteristics	Height (mm)	Width (mm)	References
Spacial SF/SM Inner door	1600	600	**NSYID166**
Spacial SF/SM Inner door	1600	800	**NSYID168**
Spacial SF/SM Inner door	1800	600	**NSYID186**
Spacial SF/SM Inner door	1800	800	**NSYID188**
Spacial SF/SM Inner door	1800	1000	**NSYID1810**
Spacial SF/SM Inner door	2000	600	**NSYID206**
Spacial SF/SM Inner door	2000	800	**NSYID208**
Spacial SF/SM Inner door	2000	1000	**NSYID2010**
Spacial SF/SM Inner door	2200	600	**NSYID226**
Spacial SF/SM Inner door	2200	800	**NSYID228**

SF Side Door





NSYSFD126

- Door for all sides of the enclosure, replaces the side panel.
- Installation directly on the structure of the enclosure, opening 120°.
- Lock with handle and 5 mm double bar insert.
- 4 locking points.
- Reinforcement frame, cut-out with a pitch of 25 mm.
- Opening to right or left.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Comment:
Dimensions, see page 20

Supply:
One side door, four hinges, four catches and handle lock

Characteristics	Height (mm)	Width (mm)	References
Spacial SF Side door	1200	600	**NSYSFD126**
Spacial SF Side door	1200	800	**NSYSFD128**
Spacial SF Side door	1400	600	**NSYSFD146**
Spacial SF Side door	1400	800	**NSYSFD148**
Spacial SF Side door	1600	600	**NSYSFD166**
Spacial SF Side door	1600	800	**NSYSFD168**
Spacial SF Side door	1800	400	**NSYSFD184**
Spacial SF Side door	1800	500	**NSYSFD185**
Spacial SF Side door	1800	600	**NSYSFD186**
Spacial SF Side door	1800	800	**NSYSFD188**
Spacial SF Side door	2000	300	**NSYSFD203**
Spacial SF Side door	2000	400	**NSYSFD204**
Spacial SF Side door	2000	500	**NSYSFD205**
Spacial SF Side door	2000	600	**NSYSFD206**
Spacial SF Side door	2000	700	**NSYSFD207**
Spacial SF Side door	2000	800	**NSYSFD208**
Spacial SF Side door	2200	400	**NSYSFD224**
Spacial SF Side door	2200	500	**NSYSFD225**
Spacial SF Side door	2200	600	**NSYSFD226**
Spacial SF Side door	2200	800	**NSYSFD228**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Partial doors

Front fix panel for modularity

- Top and bottom fix panel to obtain modularity required to install partial doors.
- It is needed to purchase **NSYMIC6** and **NSYMIC8**.
- Height 100 mm fixed panels are delivered as standard for the compartmentalised enclosure, Spacial SFM.
- Possibility to order it separately for Spacial SF framework in kit supply.
- Available in 2 heights (mm).
- Ingress protection rating: IP54 according to IEC 60529


NSYMFP2M6

Characteristics	Height (mm)	Width (mm)	References
Spacial SFM - Front Fix panel for modularity	100	600	**NSYMFP2M6**
Spacial SFM - Front Fix panel for modularity	250	600	**NSYMFP5M6**
Spacial SFM - Front Fix panel for modularity	100	800	**NSYMFP2M8**
Spacial SFM - Front Fix panel for modularity	250	800	**NSYMFP5M8**

Frontal partial doors

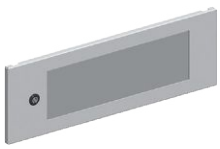
- Plain partial door with lock 5 mm double bar insert.
- They are fixed to the uprights of the framework by means of hinges.
- Drilling template for uprights ref. **NSYMDT** (Only one drilling template required per order).
- Opening to right or left.
- 1, 2 or 4 locking points according different heights.
- Possibility to replace locking insert.
- Available in following heights (mm).
- Ingress protection rating: IP54 according to IEC 60529


NSYMPD3M6

Characteristics	Height (mm)	Width (mm)	References
Spacial SFM Frontal partial door	150	600	**NSYMPD3M6**
Spacial SFM Frontal partial door	200	600	**NSYMPD4M6**
Spacial SFM Frontal partial door	250	600	**NSYMPD5M6**
Spacial SFM Frontal partial door	300	600	**NSYMPD6M6**
Spacial SFM Frontal partial door	400	600	**NSYMPD8M6**
Spacial SFM Frontal partial door	450	600	**NSYMPD9M6**
Spacial SFM Frontal partial door	600	600	**NSYMPD12M6**
Spacial SFM Frontal partial door	800	600	**NSYMPD16M6**
Spacial SFM Frontal partial door	900	600	**NSYMPD18M6**
Spacial SFM Frontal partial door	1000	600	**NSYMPD20M6**
Spacial SFM Frontal partial door	1200	600	**NSYMPD24M6**
Spacial SFM Frontal partial door	150	800	**NSYMPD3M8**
Spacial SFM Frontal partial door	200	800	**NSYMPD4M8**
Spacial SFM Frontal partial door	250	800	**NSYMPD5M8**
Spacial SFM Frontal partial door	300	800	**NSYMPD6M8**
Spacial SFM Frontal partial door	400	800	**NSYMPD8M8**
Spacial SFM Frontal partial door	450	800	**NSYMPD9M8**
Spacial SFM Frontal partial door	600	800	**NSYMPD12M8**
Spacial SFM Frontal partial door	800	800	**NSYMPD16M8**
Spacial SFM Frontal partial door	900	800	**NSYMPD18M8**
Spacial SFM Frontal partial door	1000	800	**NSYMPD20M8**
Spacial SFM Frontal partial door	1200	800	**NSYMPD24M8**

Frontal transparent partial doors

- Glazed (Securit glass) partial door with lock 5 mm double bar insert.
- They are fixed to the uprights of the framework by means of hinges.
- Opening to right or left.
- 1 or 2 locking points according different heights.
- Available in following heights (mm).
- Ingress protection rating: IP54 according to IEC 60529


NSYMPD26T

Characteristics	Height (mm)	Width (mm)	References
Spacial SFM Frontal Transparent partial doors	200	600	**NSYMPD26T**
Spacial SFM Frontal Transparent partial doors	400	600	**NSYMPD46T**
Spacial SFM Frontal Transparent partial doors	600	600	**NSYMPD66T**
Spacial SFM Frontal Transparent partial doors	800	600	**NSYMPD86T**
Spacial SFM Frontal Transparent partial doors	1000	600	**NSYMPD106T**
Spacial SFM Frontal Transparent partial doors	200	800	**NSYMPD28T**
Spacial SFM Frontal Transparent partial doors	400	800	**NSYMPD48T**
Spacial SFM Frontal Transparent partial doors	600	800	**NSYMPD68T**
Spacial SFM Frontal Transparent partial doors	800	800	**NSYMPD88T**
Spacial SFM Frontal Transparent partial doors	1000	800	**NSYMPD108T**

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Steel floor-standing enclosures

Intermediate crossbar


NSYMIC6

- Mounted between partial doors or between doors and control desk, guaranteeing IP54 according to IEC 60529.
- Crossbar with direct fixing to the structure.
- Available in 2 widths (mm).



Supply:
2 crossbars with fixing elements.

Characteristics	Width (mm)	References
Spacial SF-Intermediate Crossbar	600	**NSYMIC6**
Spacial SF-Intermediate Crossbar	800	**NSYMIC8**

Folding panel


NSYCDP36

- Height 300 mm horizontal panel, hinged at the top.
- Helps guarantee" protection of the sets of bars.
- Opening angle: 110°.
- It is installed together with partial doors to create the modularity of the enclosure.
- 2 locking points, 5 mm double bar insert.
- Available in 2 widths (mm).

Characteristics	Width (mm)	References
Spacial SF Folding panel	600	**NSYCDP36**
Spacial SF Folding panel	800	**NSYCDP38**

Control desk


NSYMCOD264

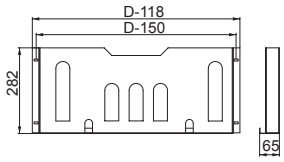
- Support for human-machine dialogue.
- Height 400 mm Control desk is installed together with partial doors to create the modularity of the enclosure.
- 2 locking points, 5 mm double bar insert.
- Available in 2 widths (mm).

Characteristics	Width (mm)	References
Spacial SF Control desk	600	**NSYMCOD264**
Spacial SF Control desk	800	**NSYMCOD284**

Metal document pocket


NSYSDP6M

- Direct mounting on the reinforcement frame of the door.
- Adjustable depth with a pitch of 25 mm.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey



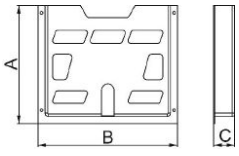
Supply:
1 metal document pocket and fixing elements

Characteristics	(D) Width (mm)	References
Spacial SF/SM Metal document pocket	600	**NSYSDP6M**
Spacial SF/SM Metal document pocket	800	**NSYSDP8M**

Plastic document pocket


NSYDPA5

- Attachment by adhesive tape.
- Material: Polystyrene (PS)
- Colour: RAL 7035 grey (NSYDPA4: RAL 9001)



Comment:
NSYDPA44 not compatible with 19" chassis or modular distribution.

Supply:
1 plastic document pocket

Characteristics	Doc. format	A (mm)	B (mm)	C (mm)	References
Spacial SF/SM Plastic document pocket	A5	174	188	22	**NSYDPA5**
Spacial SF/SM Plastic document pocket	A4	230	247	23	**NSYDPA4**
Spacial SF/SM Plastic document pocket	A4	234	278	40	**NSYDPA44**
Spacial SF/SM Plastic document pocket	A3	285	476	35	**NSYDPA3**

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Steel floor-standing enclosures

Folding support tray

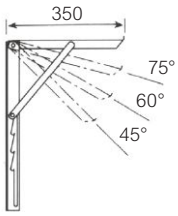


NSYSDT5



NSYSDT8

- Adjustable horizontal support for laptop computers, documents or any other element.
- Installation on the reinforcement frame of the door.
- Can also be installed on the door cross rails, see page 291.
- 4 positions: 45°, 60°, 75° and 90°.
- Maximum load: 30 kg
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey



Supply:
1 folding support tray and fixing elements

Characteristics	Width (mm)	References
Spacial SF/SM-Folding support tray	500	**NSYSDT5**
Spacial SF/SM-Folding support tray	600	**NSYSDT6**
Spacial SF/SM-Folding support tray	800	**NSYSDT8**

180° hinge



- Hinge with opening of 180°.
- Intended to replace the 120° hinges installed as standard.
- They are compatible with the transparent door and can be installed even with enclosure suites.
- Maximum load: 60 kg on the door
- Material: Aluminium and zamak
- Finish: Painted RAL 9005 black
- NEMA Types:
  - SF: NEMA Type 1, 3R and 12
  - SM single door: NEMA Type 1, 2, 3, 3R, 5, 12 and 13

Supply:
4 hinges



NSYSH180NC

Characteristics	References
Spacial SF/SM 180° hinge	**NSYSH180NC**

Door-centring caster



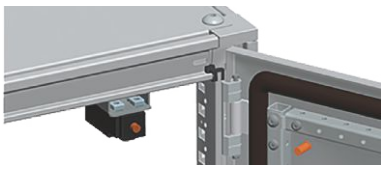
NSYSDRC

- Allows the door to be raised when closing.
- Direct mounting on the reinforcement frame.
- Maximum load: 90 kg

Supply:
One centring roller and fixing elements

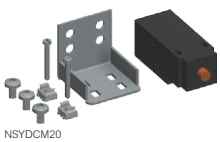
Characteristics	References
Spacial SF/SM Door-centring caster	**NSYSDRC**

Door switch



- The switch is fixed to the structure of the enclosure.
- Drilled M20 cable entry for cable gland.
- NC + NO contact, 240 V AC / 3 A (IEC 60947-5-1)
  250 V DC / 0,1 A (IEC 60947-5-1)

Supply:
1 door switch and fixing elements



NSYDCM20

Characteristics	References
Spacial SF/SFX Door switch	**NSYDCM20**
Spacial SM Door switch	**NSYMDCM20**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Steel floor-standing enclosures

Locking system

Padlock locking


NSYBLKH123



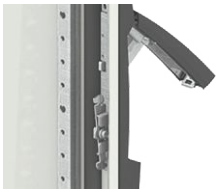
- Padlock locking system, for installation in all the handles of the Spacial SF and Spacial SM enclosures.
- Bolt with 7.5 mm drill hole.

Supply:
One cut-out handle, bolt for padlock and bolt fixing screw

Characteristics	References
Spacial SF/SM Padlock locking	**NSYBLKH123**

CNOMO kit


NSYCNOH123



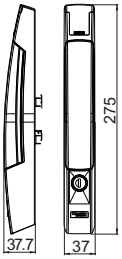
- Locking system to be installed on the central locking bar of the door.
- It works as a locking bar immobiliser, helping prevent the handle from closing while the door is still open.
- It is compatible with all handle lock versions, except the flat lock and the small flat lock.

Supply:
One mechanism and fixing elements

Characteristics	References
Spacial SF/SM CNOMO kit	**NSYCNOH123**

Push button handle with 3524E key


NSYSFHPB



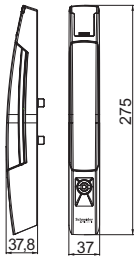
- Push button handle with 3524E key for Spacial SF and Spacial SM enclosures.
- Locking and unlocking by key and opening by pushing the insert.
- Handle material: Polyamide 6 with 30% fibreglass
- Color: RAL 9005
- Fire resistant: 650°C

Supply:
Push button handle, two 3524E keys and fixing elements (insert included)

Characteristics	References
Spacial SF/SM Push button handle with 3524E key	**NSYSFHPB** New

Handle for shape inserts and cylindrical barrels


NSYSFHS1



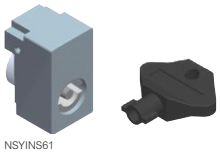
- Easy to change the opening direction of the door, right/left.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- Handle material: Polyamide 6 with 30 % fibreglass
- Colour: RAL 9005
- Mechanical protection rating: IK10 according to IEC 62262
- Fire resistance: 650°C

Supply:
Standard handle and fixing elements (insert not included)

Characteristics	References
Spacial SF/SM Handle for shape inserts and cylindrical barrels	**NSYSFHS1**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Shape inserts


NSYINS61

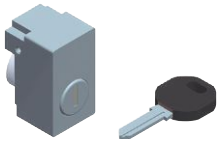
Characteristics	References
6 mm square insert	**NSYINS61**
Female 6 mm square insert	**NSYINS6G1**
7 mm square insert	**NSYINS71**
8 mm square insert	**NSYINS81**
Female 8 mm square insert	**NSYINS8G1**
6.5 mm triangular insert	**NSYINT61**
7 mm triangular insert	**NSYINT71**
8 mm triangular insert	**NSYINT81**
9 mm triangular insert	**NSYINT91**
10 mm triangular insert	**NSYINT101**
10 mm keyless hexagonal insert	**NSYINH31**
3 mm double bar insert	**NSYINDB31**
5 mm double bar insert	**NSYINDB51**
Daimler Benz insert	**NSYINBENZ1**
Fiat insert	**NSYINFIAT1**
Keyless USA slot insert	**NSYINUSA1**
Crown insert	**NSYINCW1**

Push button


NSYINPULS1

Characteristics	References
Push button	**NSYINPULS1**

Cylindrical barrels


NSYIN405E1

Characteristics	References
405E key lock	**NSYIN405E1**
421E key lock	**NSYIN421E1**
455 key lock	**NSYIN4551**
1242E key lock	**NSYIN1242E1**
1332E key lock	**NSYIN1332E1**
2124E key lock	**NSYIN2124E1**
2131A key lock	**NSYIN2131A1**
2132A key lock	**NSYIN2132A1**
2331A key lock	**NSYIN2331A1**
2433A key lock	**NSYIN2433A1**
2452E key lock	**NSYIN2452E1**
3113A key lock	**NSYIN3113A1**
3122E key lock	**NSYIN3122E1**
3123A key lock	**NSYIN3123A1**
3131A1 key lock	**NSYIN3131A1**
3133A key lock	**NSYIN3133A1**
3422E key lock	**NSYIN3422E1**
3432E key lock	**NSYIN3432E1**
6101 key lock	**NSYIN6101**
EDF1300 key lock	**NSYINF1301**
EDF1400 key lock	**NSYINF1401**
Michelin 8079 keyless lock	**NSYINICHEL8791**
Michelin 8133 keyless lock	**NSYINICHEL8131**
Michelin 8376 keyless lock	**NSYINICHEL8371**
E1 keyless lock	**NSYINE11**

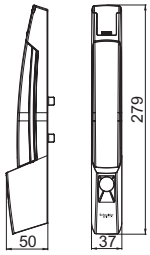
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Steel floor-standing enclosures

Handles for insert types DIN, KABA, ASSA, Insert handle


NSYSFHD2

- The inserts are easily and quickly mounted without any screws and allow the installation of profiled DIN, KABA and ASSA locks.
- To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. **NSYLADP**.
- Easy to change the opening direction of the door, right/left.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- Handle material: Polyamide 6 with 30 % fibreglass
- Colour: RAL 9005
- Mechanical protection rating: IK10 according to IEC 62262
- Fire resistance: 650°C



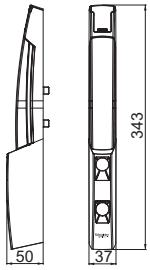
Supply:
One handle for DIN, KABA and ASSA inserts and fixing elements (insert not included)

Characteristics	References
Spacial SF/SM Insert handle	**NSYSFHD2**

Handles for insert types DIN, KABA, ASSA, Double-insert handle


NSYSFHD3

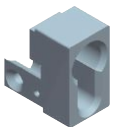
- The double insert handle can perform the "AND" and "OR" functions (are supplied with the handle).
  - "AND" function: One insert blocks the activation of the other insert.
  - "OR" function: Either insert can release the handle.
- Easy to change the opening direction of the door, right/left.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. **NSYLADP**.
- Handle material: Polyamide 6 with 30 % fibreglass
- Colour: RAL 9005
- Mechanical protection rating: IK10 according to IEC 62262
- Fire resistance: 650°C

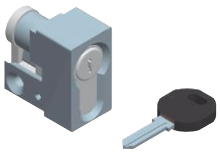


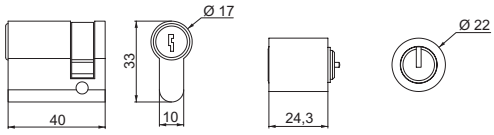
Supply:
One handle for DIN, KABA and ASSA inserts and fixing elements (insert not included)

Characteristics	References
Spacial SF/SM Double-insert handle	**NSYSFHD3**

Lock system: DIN, KABA and ASSA


NSYINDIN2


NSYIN1242E2



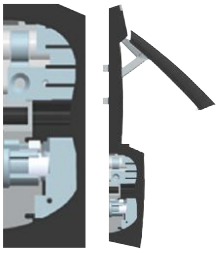
Comment:
NSYINKBA2: Adapter for receiving the KABA8, KABA20 and KABA start cylinders.

Characteristics	References
Spacial SF/SM Adapter for DIN cylinder	**NSYINDIN2**
Spacial SF/SM Adapter for KABA cylinder	**NSYINKBA2**
Spacial SF/SM Adapter for ASSA cylinder	**NSYINASSA2**
Spacial SF/SM 1242E key lock	**NSYIN1242E2**
Spacial SF/SM Reinforced key lock	**NSYINKR2**
Spacial SF/SM JIS key lock	**NSYINKJIS2**
Spacial SF/SM FAC key lock	**NSYINKFAC2**

Adapter for shape inserts and cylindrical barrels


NSYLADP

- Plastic adapter for installing shape inserts and cylindrical barrels in handle lock types DIN, KABA, ASSA.
- See shape inserts and cylindrical barrels.
- See insert types DIN, KABA, ASSA.



Supply:
1 unit

Characteristics	References
Spacial SF/SM Adapter for shape inserts and cylindrical barrels	**NSYLADP**

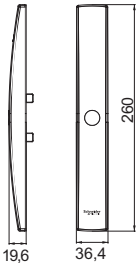
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Steel floor-standing enclosures

Flat escutcheon lock



- Optional flat escutcheon lock. Replaces the handle lock.
- Easy to change the opening direction of the door, right/ left.
- Possibility of changing the turning direction of the insert.
- Handle material: Polyamide 6 with 30 % fibreglass
- Colour: RAL 9005
- Mechanical protection rating: IK10 according to IEC 62262
- Fire resistance: 650°C



Supply:
Flat lock, shape insert, key and fixing elements


NSYSFLOCK24


NSYSFLOCKT8


NSYSFLOCKT7


NSYSFLOCKT6


NSYSFLOCKSG8


NSYSFLOCKS8


NSYSFLOCKS7

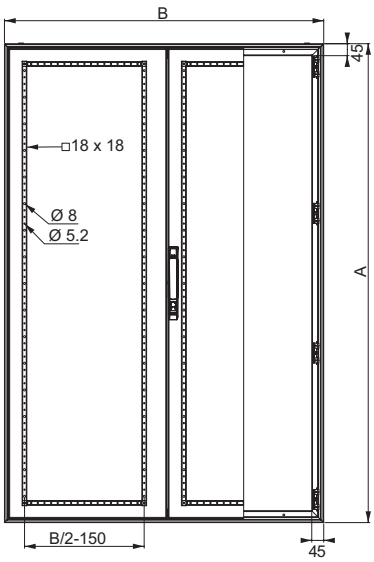

NSYSFLOCKS6

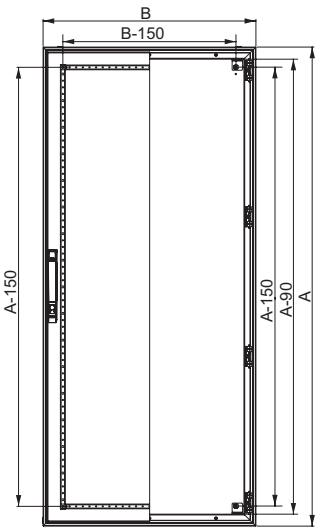

NSYSFLOCKDB5

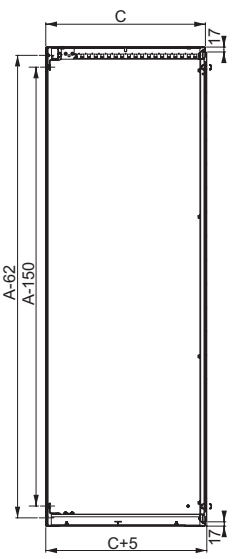
Characteristics	References
Flat lock + screwdriver slot, 2 mm groove	**NSYSFLOCK24**
Flat lock + 8 mm triangular insert	**NSYSFLOCKT8**
Flat lock + 7 mm triangular insert	**NSYSFLOCKT7**
Flat lock + 6.5 mm triangular insert	**NSYSFLOCKT6**
Flat lock + 8 mm female square insert	**NSYSFLOCKSG8**
Flat lock + 8 mm square insert	**NSYSFLOCKS8**
Flat lock + 7 mm square insert	**NSYSFLOCKS7**
Flat lock + 6 mm square insert	**NSYSFLOCKS6**
Flat lock + 5 mm double bar insert	**NSYSFLOCKDB5**

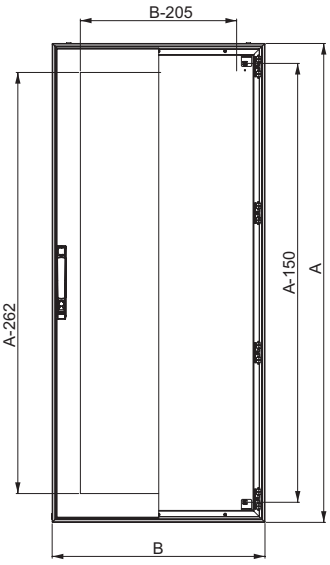
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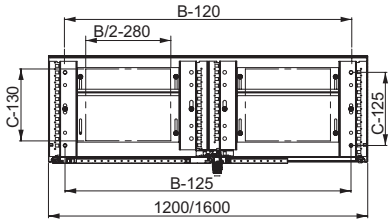
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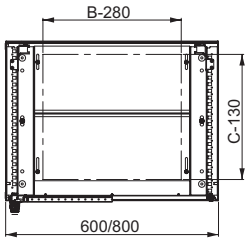






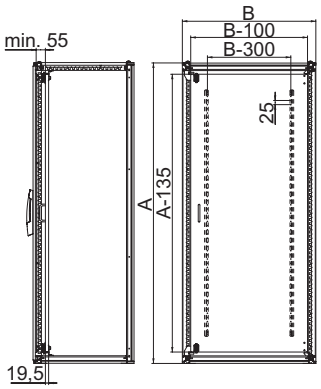




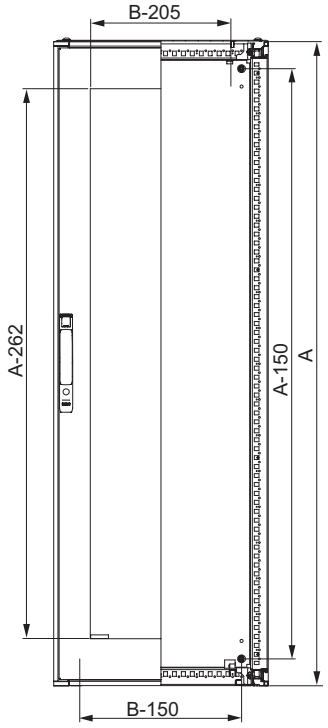


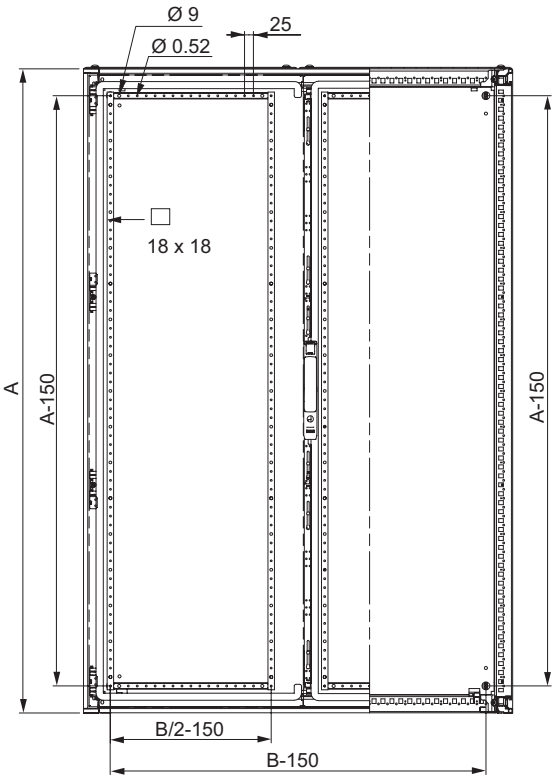
Models with a width of 1200 mm
without top/bottom adjustment rails

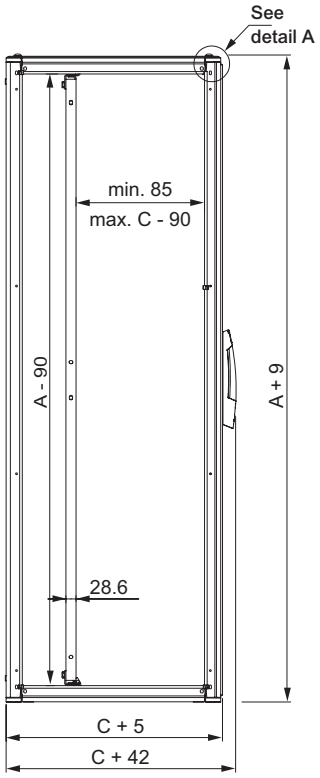
Inner door

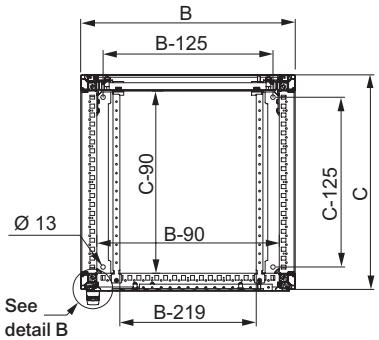


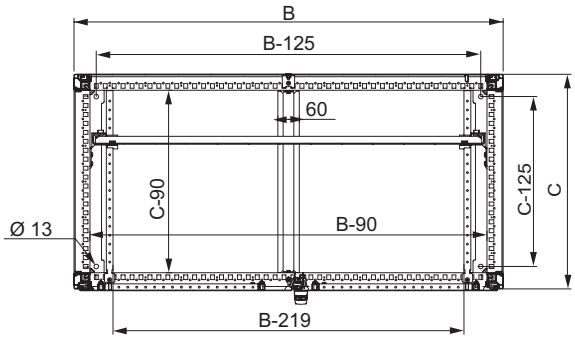
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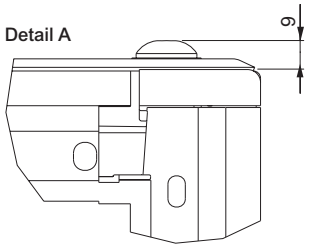


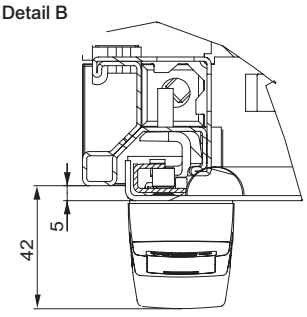




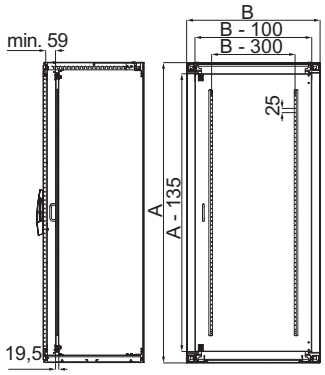




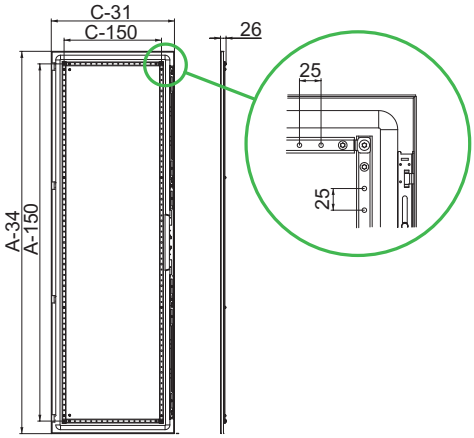




Inner door



Side door



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Spacial SBX



Life Is On Schneider Electric

Stainless-Steel Industrial Boxes

Spacial SBX

Introduction	114
Characteristics	117
Common Accessories	118
Dimensions	122

4

What is stainless steel?



How is the stainless steel grade determined?

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

Thanks to an elaborate composition

The following table shows the percentages of the main alloy elements that make up stainless steels. The resistance of the material to aggressive agents in the environment depends mainly on these alloys.

Stainless steel type		Chemical composition (%)			
AISI grade	N. Europe	Carbon	Chromium	Nickel	Molybdenum
304L	1.4307	< 0.03	17 - 19	8 - 10	0
316L	1.4404	< 0.03	17 - 19	10 - 13	2 - 2.25



Choosing a stainless steel grade AISI 304L stainless steel

The most commonly used type in the food and beverage industry for its resistance to corrosion and easy cleaning.

- Prevention against corrosion, especially in the presence of organic acids.
- Resistance to the action of nitrous gas in the presence of condensation water and in most aggressive environments.



AISI 316L stainless steel

Recommended in salty or chlorinated environments due to its very high resistance to corrosion thanks to the presence of molybdenum.

- Improved resistance to corrosion.
- Particularly well adapted to environments charged with acidity, bromine and saline halides or which use very corrosive additives and solvents.

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The finish

The finish: 3 solutions against aggressive environmental agents

Surface condition plays an important role in the fight against bacteria. The lower the roughness, the fewer bacteria become incrusted. Reduced roughness means fewer bacteria, less adherence of materials and an impeccable finish. To choose a finish is also to choose an appearance of the enclosures that matches the environment of other machines and equipment.



Solution 1: Scotch-Brite® brushing

The method used consists of brushing as defined by the ASTM (American Society for Testing and Material).

- Finish very commonly used for the chemical and food and beverage industries.
- Surface roughness is improved thanks to an additional polishing process which offers more efficient characteristics against polluting elements.
- Surface roughness: Ra ≤ 0.8 µm.



Solution 2: Micro-beading (on request)

Exclusiveness, an impeccable finish with smooth silky appearance.

The method:
- Bombardment with miniscule ceramic balls of the entire surface to be treated at very high speed.
- Closes micro-cracks caused during lamination by flattening.

The result:
- Increased hardness.
- Reduced surface roughness: Ra ≈ 0.8 µm.
- A perfectly even surface, with a silky appearance (no scratches and no burrs).
- Reduces the adherence of materials.
- Allows disinfection.
- Typical application: Pharmaceutical and food and beverage industries.



Solution 3: Protective painting (on request)

The highest protection against aggressions, external pollution and projections of metal particles.

- Provides the ultimate protection against corrosion.
- Typical applications: Marine, seaside, off-shore.

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New Stainless-Steel Industrial Boxes

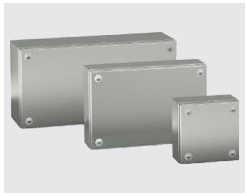
Simplicity, ergonomics and quality.

Save Time

Get the Best Esthetic

Get a High Quality Cut-Out





Selection

- 6 sizes
- 80 mm and 120 mm in depth.

Personalized cut-outs.



- Enclosure delivered with cut-outs, so you can focus on your added-value work
- Cut-outs made with an industrial laser machine for a perfect result, burr-free, with high accuracy machining tolerances
- Scotch-Brite® brushed.
- External surfaces with no scratches



Sturdy with Good Ingress Protection

- Thickness of 1.2 mm
- Mechanical protection rating up to IK10.
- Ingress protection rating up to IP66.



Added Value to your Work

- Quality and esthetics.
- Same dimensions as steel boxes (SBM range).
- Mounting with versatile external brackets.
- Certification (on request): UL, Veritas and BVM.



Ergonomics

- Cover opening and accessory mounting with just a screwdriver.

See page 522 for details or consult our web site www.se.com

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Characteristics	Spacial SBX Flat box
	Box with plain faces Single-piece body (rectangular structure). Front design incorporating folded gutters. Flat rear. 2 drilled profiles for installing mounting plates and DIN rails, with mounting centers of 12.5 mm. Equipped with 4 half-turn thread screws to help help ensure maximum watertightness. Polyurethane sealing gasket. **Protection of personnel** Earthing connection mandatory for all boxes: Spacial SBX Stainless-Steel boxes are equipped with an M6 x 10 mm earthing stud welded in the cover, to be linked with the body for equipotential connection. Earthing braid to be ordered separately (Ø 6.4 mm terminal).
Material	AISI 304L stainless steel, thickness of 1.2 mm.
Finish	Scotch-Brite® brushed.
Ingress protection rating	IP66
Mechanical protection rating	IK10
Standard compliance with enclosure standard	IEC 62208 and the RoHS directive.
Certifications	• UL, BV, BVM • NEMA Type 4, 4X, 13 according to UL 508A standard • Fire class: M0
Installation	**Indoor installation** Direct wall-mounting (4 x Ø 10 mm holes with sealing plugs to maintain the IP rating) or with the help of fixing lugs installed from the outside (to be ordered separately, see the specific accessory pages). Distance between mounting holes enables the installation of the box in the same locations as many existing enclosures. **Outdoor installation** Compliant with IEC 62208 regarding type tests specified in §9.12 resistance to ultra-violet (UV) radiation and §9.13 resistance to corrosion. It is always advisable to place the box under shelter to avoid water stagnation on the upper part of the enclosure.
Maximum load capacity	On the body: 50 kg/m²
Other characteristics	**Vibration constraints** Specific construction of the Spacial SBX - Single-piece body (rectangular structure). The rear is flat without added parts - this helps ensure compliance with certain vibration constraints. The tests were conducted according to the marine application by Bureau Veritas Marine.

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Stainless-Steel Industrial Boxes



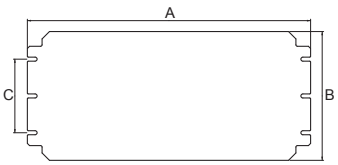




Dimensions			Box		Mounting plate	DIN rail	Fixing lugs	Sealing kit
Height (mm)	Width (mm)	Depth (mm)	Supply: 1 piece		Supply: 1 piece	Supply: 10 pieces	Supply: 4 pieces	Supply: 1 piece
			References		References	References	References	References
150	150	80	**NSYSBX15158**	New	**NSYMM11SB**	**NSYAMRD15357SB**		
150	300	80	**NSYSBX15308**	New	**NSYMM13SB**	**NSYAMRD30357SB**		
200	200	80	**NSYSBX20208**	New	**NSYMM22SB**	**NSYAMRD20357SB**		
200	300	80	**NSYSBX20308**	New	**NSYMM23SB**	**NSYAMRD30357SB**	**NSYAEFPFSBX**	**NSYPPSB**
200	400	120	**NSYSBX204012**	New	**NSYMM24SB**	**NSYAMRD40357SB**		
300	300	120	**NSYSBX303012**	New	**NSYMM33SB**	**NSYAMRD30357SB**		

Mounting plate

- Material: Galvanised steel
- Installation: Mounting by means of 2* or 4 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB**. Mounting plate installation points compatible with many other brands of accessories.



Comment:
* Only 2 screws for mounting plates with height of 150 mm

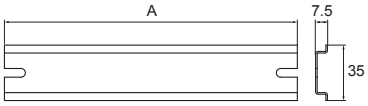
Supply:
1 unit, supplied without screws


NSYMM11SB

Characteristics	Dimensions Height (mm)	Width (mm)	Mounting plate, Dimensions A (mm)	B (mm)	C (mm)	Thickness (mm)	References
Mounting plate	150	150	135	135	-	1.5	**NSYMM11SB**
Mounting plate	150	300	135	285	-	1.5	**NSYMM13SB**
Mounting plate	200	200	185	185	100	1.5	**NSYMM22SB**
Mounting plate	200	300	185	285	100	1.5	**NSYMM23SB**
Mounting plate	200	400	185	385	100	2.0	**NSYMM24SB**
Mounting plate	300	300	185	185	200	1.5	**NSYMM33SB**

Symmetrical DIN rails 35 x 7.5 mm

- Material: Galvanised steel
- Installation: Mounting by means of 2 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB** (All boxes are delivered with 5 x Ø 5 mm self-tapping screws).



Supply:
10 rails, supplied without screws


NSYAMRD15357SB

Characteristics	Box Width (mm)	DIN rail Length A (mm)	References
Symmetrical DIN rail	150	135	**NSYAMRD15357SB**
Symmetrical DIN rail	200	185	**NSYAMRD20357SB**
Symmetrical DIN rail	300	285	**NSYAMRD30357SB**
Symmetrical DIN rail	400	385	**NSYAMRD40357SB**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Self-tapping screws

- Same reference for all dimensions
- Self-tapping, Pozidriv head, screws, for Ø 5 mm holes.

Supply:
100 units


NSYAMFSB

Characteristics	References
Self-tapping screws	**NSYAMFSB**

Sealing kit

- The sealing kit helps to set up a lead-sealed wire of cover opening.
- Colour: Green
- Ingress protection rating: IP66 according to IEC 60529
- Installation: Replaces the standard sealing washer on the box
- Same reference for all dimensions

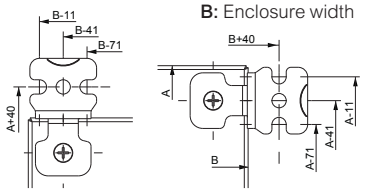
Supply:
1 unit


NSYPPSB

Characteristics	References
Sealing kit SBM	**NSYPPSB**

Mounting lugs

A: Enclosure height
B: Enclosure width



Vertical position Horizontal position

- Wall-mounting lugs to be mounted directly on the rear of the box, either in horizontal or vertical position. Their versatile design complies with the mounting dimensions of many other enclosures.
- Installation: Horizontal or vertical position, distance between wall and enclosure: 10 mm
- Maximum load: 70 kg

Supply:
4 wall-mounting lugs, screws and pre-mounted sealing gaskets


NSYAEFPFSBX

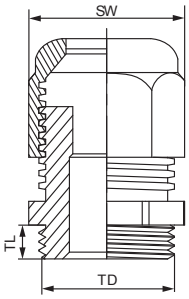
Characteristics	References
Wall-mounting lugs	**NSYAEFPFSBX**

4

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Simple-5

- ISO cable gland.
- Material: PA6 Polyamide, neoprene gasket
- Colour: RAL 7035 grey
- Cable entry material: Combined
- Installation possibilities: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP68
- Cable retention: High
- Cable diameter (mm): From 12 to 40
- Cable Installation time: Slow
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 15 to 46
- Certificates: Glow wire resistance: 960°C
- Standard: Compliance with VDE, UL and CSA
- Flame resistance: 750 °C



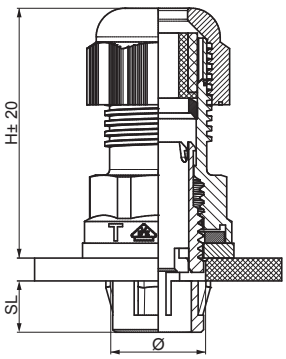
Supply:
The cable glands are supplied with nuts
Pack of 20 (M12 to M20), of 10 (M25 and M32), of 5 (M40)


ISM71503

Characteristics	Dimensions					References
	Cable (Ø mm)	Drill hole (Ø mm)	TD	TL	SW	
Cable gland M12, RAL 7035	3 / 6.5	12.2 (0 + 0.2)	12	6	15	**ISM71501**
Cable gland M16, RAL 7035	4 / 8	16.2 (0 + 0.2)	16	8	19	**ISM71502**
Cable gland M20, RAL 7035	6 / 12	20.2 (0 + 0.2)	20	10	24	**ISM71503**
Safety Cable gland M20, RAL 3000	6 / 12	20.2 (0 + 0.2)	20	10	24	**IMT36150**
Cable gland M25, RAL 7035	11 / 17	25.2 (0 + 0.2)	25	8	29	**ISM71504**
Cable gland M32, RAL 7035	15 / 21	32.2 (0 + 0.3)	32	10	36	**ISM71505**
Cable gland M40, RAL 7035	19 / 28	40.5 (0 + 0.3)	40	10	46	**ISM71506**

Synthetic snap in cable gland

- Without thread.
- Easy assembly and disassembly.
- Suitable for walls from 0.5 to 4 mm thick.
- Material: PA6 Polyamide, neoprene gasket
- Colour: RAL 7035 grey, RAL 7001, RAL 9005.
  Other colours on demand
- Cable entry material: Non armoured
- Installation possibilities:
  On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP66
- Cable retention: High
- Cable diameter (mm): From 16 to 40
- Cable Installation time: Slow
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Thread type: Metric EN 60423
  Other types are available on demand
- Cut-out dimensions (mm):
  Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 22 to 46
- Certificates: UL 94 V-2 (except for the size M40)
- Standard: DIN EN 62444, UL 514B, UL 514B§8.26.7
- Temperature range: -20°C to + 100°C



Supply:
The cable glands are supplied with nuts
Pack of 20 (M16 and M20), of 10 (M25 and M32), of 5 (M40)

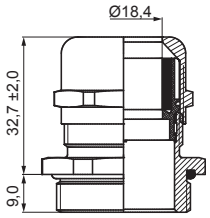

NSYCGSP16

Characteristics	Dimensions							References	
	Ø	Ø min / max	Drill Ø	SL	SD	H			
Synthetic snap in cable gland	M16	5/10	16.2 to 16.4	9	15.9	42.5	22	**NSYCGSP16**	New
Synthetic snap in cable gland	M20	6/12	20.2 to 20.4	9	19.9	41.5	24	**NSYCGSP20**	New
Synthetic snap in cable gland	M25	11/17	25.2 to 25.4	9	24.9	43.5	29	**NSYCGSP25**	New
Synthetic snap in cable gland	M32	15/21	32.2 to 32.4	9	31.9	49.5	36	**NSYCGSP32**	New
Synthetic snap in cable gland	M40	19/28	40.2 to 40.4	11.5	39.9	56	46	**NSYCGSP40**	New

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Stainless steel cable gland with lamellar insert

- Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For outdoor use, or for aggressive environments.
- Material: Stainless steel AISI 304L or AISI 316L, neoprene gasket
- Cable entry material: Non armoured
- Installation possibilities: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP68
- Cable retention: High
- Cable diameter (mm): From 12 to 40
- Cable Installation time: Slow
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Thread type: Metric EN 60423
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 14 to 43
- Certificates: UL 94 V-2
- Standard: DIN EN 62444, UL 514
- Temperature range: -20°C to + 100°C



Supply:
The cable glands are supplied with nuts
Pack of 5 (M12 and M16), of 4 (M20 and M25), of 2 (M32 and M40)


NSYCGX12

Characteristics	Dimensions							References	
	Ø	Ø min / max	Drill Ø	TD	TL	H			
AISI 304L	M12	3/6.5	12 to 12.2	12	12	22	14	**NSYCGX12**	New
AISI 304L	M16	5/10	16 to 16.2	16	12	28.5	20	**NSYCGX16**	New
AISI 304L	M20	6/12	20 to 20.2	20	12	24	22	**NSYCGX20**	New
AISI 304L	M25	11/17	25 to 25.2	25	12	32.5	27	**NSYCGX25**	New
AISI 304L	M32	15/21	32 to 32.3	32	15	36	34	**NSYCGX32**	New
AISI 304L	M40	19/28	40 to 40.3	40	15	43.5	43	**NSYCGX40**	New
AISI 316L	M12	3/6.5	12 to 12.2	12	12	22	14	**NSYCGX12H**	New
AISI 316L	M16	5/10	16 to 16.2	16	12	28.5	20	**NSYCGX16H**	New
AISI 316L	M20	6/12	20 to 20.2	20	12	24	22	**NSYCGX20H**	New
AISI 316L	M25	11/17	25 to 25.2	25	12	32.5	27	**NSYCGX25H**	New
AISI 316L	M32	15/21	32 to 32.3	32	15	36	34	**NSYCGX32H**	New
AISI 316L	M40	19/28	40 to 40.3	40	15	43.5	43	**NSYCGX40H**	New

Earth braids

Supply:
10 earth braids
(nuts and washers not included)
Reference by unit. Order by multiples of 10 (10, 20, 30...)

- They help guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.
- Material: Tinned copper.


NSYEB156D6

Characteristics	Section (mm²)	Terminal Ø (mm)	Length (mm)	Width (mm)	References
Earth braids	6	6.5	150	12	**NSYEB156D6**
Earth braids	10	6.5	150	17	**NSYEB1510D6**

Earth cables

Supply:
10 earth cables (nuts and washers not included).
Reference by unit. Order by multiples of 10 (10, 20, 30...)

- Make it easier to install a safe earth connection, with a perfect contact, with optimised length.
- Material: Brass and copper alloy terminal, green and yellow PVC insulating sheath


NSYEL136D6

Characteristics	Section (mm²)	Terminal Ø (mm)	Length (mm)	References
Earth cables	6	6.4	130	**NSYEL136D6**
Earth cables	6	6.4	160	**NSYEL166D6**
Earth cables	6	8.3	160	**NSYEL166D8**
Earth cables	10	8.3	170	**NSYEL1710D6**
Earth cables	6	6.4	220	**NSYEL226D6**
Earth cables	6	13	220	**NSYEL226D13**
Earth cables	25	8.3	220	**NSYEL2225D8**
Earth cables	10	6.4	250	**NSYEL2510D6**
Earth cables	25	8.3	350	**NSYEL3525D8**

Earthing strip

Supply:
- 1 earthing strip and fixing elements

- Perforated brass bar, 15 x 3 mm.
- 1 m long.
- 87 connection points, M5 drill holes

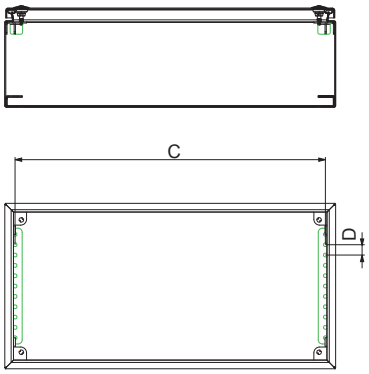

NSYECB1M153

Characteristics	References
Earthing strip	**NSYECB1M153**

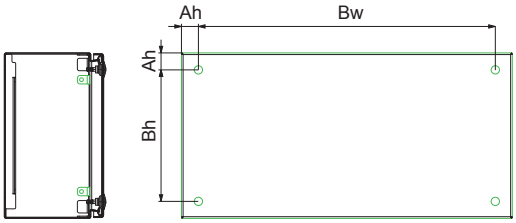
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Stainless-Steel Industrial Boxes

Section A-A



Section B-B

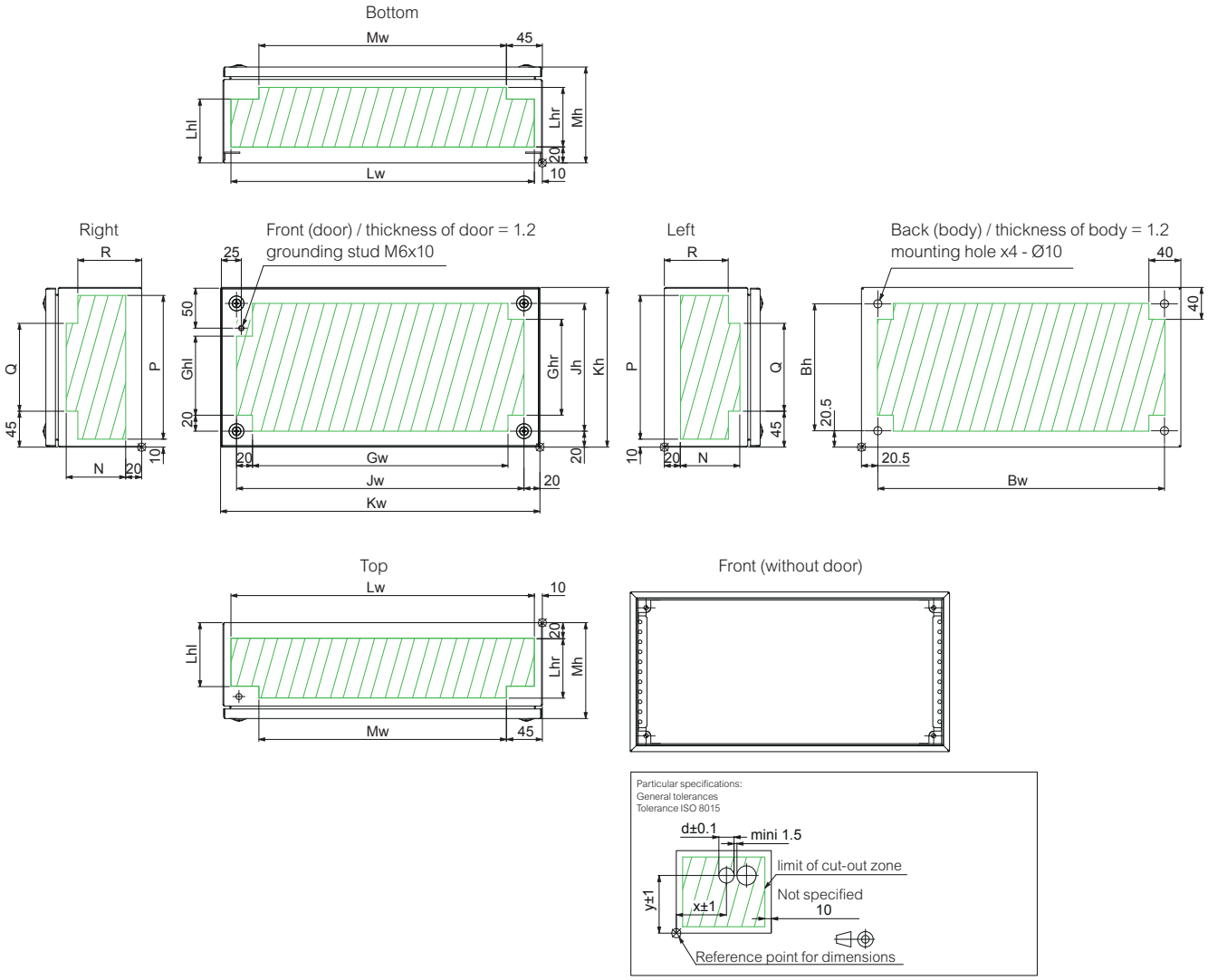


4

Dimensions Height (mm)	Width (mm)	Depth (mm)	Sheet thickness (mm)	Box installation Ah (mm)	Bh (mm)	Bw (mm)	Mounting C (mm)	D (mm)
150	150	80	1.2	20.5	109	109	125	12.5
150	300	80	1.2	20.5	109	259	275	12.5
200	200	80	1.2	20.5	159	159	175	12.5
200	300	80	1.2	20.5	159	259	275	12.5
200	400	120	1.2	20.5	159	359	375	12.5
300	300	120	1.2	20.5	259	259	275	12.5

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Limit of Cut-Out Zone



Dimensions			References	Dimensions for allowed zone for cut-out																
Height (mm)	Width (mm)	Depth (mm)		Bh (mm)	Bw (mm)	Ghr (mm)	Ghl (mm)	Gw (mm)	Jh (mm)	Jw (mm)	Kh (mm)	Kw (mm)	Lhl (mm)	Lhr (mm)	Lw (mm)	Mh (mm)	Mw (mm)	N (mm)	P (mm)	Q (mm)	R (mm)
150	150	80	NSYSBX15158	109	109	70	49	70	110	110	150	150	40	34.5	130	80	60	34.5	130	60	40
150	300	80	NSYSBX15308	109	259	70	49	220	110	260	150	300	40	34.5	280	80	210	34.5	130	60	40
200	200	80	NSYSBX20208	159	159	120	99	120	160	160	200	200	40	34.5	180	80	110	34.5	180	110	40
200	300	80	NSYSBX20308	159	259	120	99	220	160	260	200	300	40	34.5	280	80	210	34.5	180	110	40
200	400	120	NSYSBX204012	159	359	120	99	320	160	360	200	400	80	74.5	380	120	310	74.5	180	110	80
300	300	120	NSYSBX303012	259	259	220	199	220	260	260	300	300	80	74.5	280	120	210	74.5	280	210	80

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Stainless steel wall-mounting enclosures



5

Life Is On Schneider Electric

Stainless steel wall-mounting enclosures

Spacial S3X, Stainless steel wall-mounting enclosures

Introduction	126
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Dimensions	135

5

What is stainless steel?



How is the stainless steel grade determined?

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

Thanks to an elaborate composition

The following table shows the percentages of the main alloy elements that make up stainless steels. The resistance of the material to aggressive agents in the environment depends mainly on these alloys.

Stainless steel type		Chemical composition (%)			
AISI grade	N. Europe	Carbon	Chromium	Nickel	Molybdenum
304L	1.4307	< 0.03	17 - 19	8 - 10	0
316L	1.4404	< 0.03	17 - 19	10 - 13	2 - 2.25



Choosing a stainless steel grade AISI 304L stainless steel

The most commonly used type in the food and beverage industry for its resistance to corrosion and easy cleaning.

- Prevention against corrosion, especially in the presence of organic acids.
- Resistance to the action of nitrous gas in the presence of condensation water and in most aggressive environments.



AISI 316L stainless steel

Recommended in salty or chlorinated environments due to its very high resistance to corrosion thanks to the presence of molybdenum.

- Improved resistance to corrosion.
- Particularly well adapted to environments charged with acidity, bromine and saline halides or which use very corrosive additives and solvents.

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The finish

The finish: 3 solutions against aggressive environmental agents

Surface condition plays an important role in the fight against bacteria. The lower the roughness, the fewer bacteria become incrusted. Reduced roughness means fewer bacteria, less adherence of materials and an impeccable finish. To choose a finish is also to choose an appearance of the enclosures that matches the environment of other machines and equipment.



Solution 1: Scotch-Brite® brushing

The method used consists of brushing as defined by the ASTM (American Society for Testing and Material).

- Finish very commonly used for the chemical and food and beverage industries.
- Surface roughness is improved thanks to an additional polishing process which offers more efficient characteristics against polluting elements.
- Surface roughness: Ra ≤ 0.8 µm.



Solution 2: Micro-beading (on request)

Exclusiveness, an impeccable finish with smooth silky appearance.

The method:
- Bombardment with miniscule ceramic balls of the entire surface to be treated at very high speed.
- Closes micro-cracks caused during lamination by flattening.

The result:
- Increased hardness.
- Reduced surface roughness: Ra ≈ 0.8 µm.
- A perfectly even surface, with a silky appearance (no scratches and no burrs).
- Reduces the adherence of materials.
- Allows disinfection.
- Typical application: Pharmaceutical and food and beverage industries.



Solution 3: Protective painting (on request)

The highest protection against aggressions, external pollution and projections of metal particles.

- Provides the ultimate protection against corrosion.
- Typical applications: Marine, seaside, off-shore.

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Stainless steel wall-mounting enclosures

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

This range can be configured according to your needs



4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining



Finishes

- Two types of steel offered as standard: 304L and 316L, with Scotch-Brite® brushed finish.
- Painted or micro-beaded finish (on request).



Robustness and durability

Resistance to external mechanical impacts:

- IK10: Plain door, IK08: Glazed door.
- Door reinforcement frame or profile.
- Stainless steel hinges.



Large range of accessories

- Stainless steel accessories: canopy, wall fixing lugs.
- Accessories of the standard offer: mounting plate, inner door, modular chassis and step slides.
- Large selection of locks with 100 % stainless steel transformation.



Convenience and time saving

- 304L or 316L stainless steel wall fixing lugs.
- Vertical reinforcement perforated profiles, which make it easier to equip the door.
- Reversible door opening to 120°.
- Easy installation directly on the machine thanks to the 4 rear drill holes.



Sealing

- Protection rating of IP66 (1 door) or IP55 (2 doors) according to IEC 60529: Complete protection against dust and water sprays.
- Polyurethane gasket.
- Gutter-shaped front profile.
- Three closure points for the double door.

See page 522 for details or consult our web site www.se.com

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Comment:
For more information, see page 135

Characteristics	NSYS3X●●●●	NSYS3X●●●●T	NSYS3X●●●●H
	304L stainless steel Enclosure with plain door.	304L stainless steel Enclosure with glazed door, Securit® glass, 4 mm thick.	316L stainless steel Enclosure with plain door.
Material	AISI 304L		AISI 316L
Finish	Scotch-Brite® brushed		
Thickness	10/10e - 15/10e mm		
Ingress protection rating	IP66 (1 door) or IP55 (2 doors) according to IEC 60529		
Mechanical protection rating	IK10 according to IEC 62262	IK08 according to IEC 62262	IK10 according to IEC 62262
Standards and certifications	See technical guides page 614		
Installation	Outdoor installation: Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure		
Other characteristics	• Single-piece body (cross-shaped structure). Gutter-shaped front profile • 4 rear studs for fixing the material • 2 cut-out vertical profiles on the door (from a height of 600 mm), with drill holes with a diameter of 4.25 mm and a pitch of 25 mm for installing accessories • Door strengthening frame (from a height of 1000 mm), cross-section of 20 mm x 15 mm, with drill holes with a diameter of 5 mm and a pitch of 25 mm • Standard lock with 3 mm double bar lock (chrome-plated zamak) • 2 locking points for heights of more than 500 mm or three points for two-door enclosures • Stainless steel hinges screwed to the body of the enclosure. They make it easier to remove and invert the door. Opening angle: 120° • Maximum load on the door: 50 kg/m² • Polyurethane gasket • M6 x 16 mm screws on the door and on the body, allowing equipotential connection between the earth connections (on request) • 4 holes for fixing to the wall directly or with the help of mounting lugs (on request), blocked by sealing plugs		

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					304L stainless steel		316L stainless steel
							
External dimensions							
Height (mm)	Width (mm)	Depth (mm)	No. of locks	No. of doors	Plain door	Glazed door. The glazed door has no reinforcement.	Plain door
300	200	150	1	1	NSYS3X3215	-	NSYS3X3215H
300	250	150	1	1	NSYS3X302515	-	NSYS3X302515H
300	300	150	1	1	NSYS3X3315	-	NSYS3X3315H
400	300	150	1	1	NSYS3X4315	-	NSYS3X4315H
400	300	200	1	1	NSYS3X4320	NSYS3X4320T	NSYS3X4320H
400	400	200	1	1	NSYS3X4420	-	NSYS3X4420H
400	600	200	1	1	NSYS3X4620	-	NSYS3X4620H
500	400	200	2	1	NSYS3X5420	NSYS3X5420T	NSYS3X5420H
600	400	200	2	1	NSYS3X6420	NSYS3X6420T	NSYS3X6420H
600	600	250	2	1	NSYS3X6625	-	NSYS3X6625H
600	1000	300		2	NSYS3X601030	-	-
600	1200	300	(1)	2	NSYS3X601230	-	-
700	500	250	2	1	NSYS3X7525	NSYS3X7525T	NSYS3X7525H
800	600	250	2	1	NSYS3X8625	NSYS3X8625T	NSYS3X8625H
800	800	300	2	1	NSYS3X8830	-	NSYS3X8830H
800	1000	300		2	NSYS3X801030	-	-
800	1200	300	(1)	2	NSYS3X801230	-	-
1000	800	300	2	1	NSYS3X10830	NSYS3X10830T	NSYS3X10830H
1000	1000	300	(1)	2	NSYS3X101030	-	NSYS3X101030H
1200	800	300	2	1	NSYS3X12830	-	NSYS3X12830H
1200	1000	300	(1)	2	NSYS3X121030	-	NSYS3X121030H

(1) Three-point closure system.

Accessories

									
External dimensions									
Height (mm)	Width (mm)	Depth (mm)	No. of modules	Mounting plate Plain	Mounting plate Silkscreened	Mounting plate Microperforated	Mounting plate Telequick	Modular Chassis	Step slides
300	200	150	-	NSYMM32	-	NSYMF32	NSYMR32	-	-
300	250	150	-	NSYMM3025	-	-	NSYMR3025	-	-
300	300	150	-	NSYMM33	-	NSYMF33	NSYMR33	-	-
400	300	150	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	-
400		200	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	NSYSDCR200
400	400	200	-	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	NSYSDCR200
400	600	200	-	NSYMM64	NSYMS64	NSYMF64	NSYMR46	-	NSYSDCR200
500	400	200	48	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDLM48	NSYSDCR200
600	400	200	48	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDLM48P	NSYSDCR200
600	600	250	84	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYDLM84P	NSYSDCR250
600	1000	300*	-	NSYMM106	-	NSYMF106	NSYMR106	-	NSYSDCR300
600	1200	300*	-	NSYMM126	-	NSYMF126	-	-	NSYSDCR300
700	500	250	66	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDLM66	NSYSDCR250
700	500	250	88	-	-	-	-	NSYDLM88	-
800	600	250	84	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDLM84	NSYSDCR250
800	600	250	112	-	-	-	-	NSYDLM112	-
800	800	300	-	NSYMM88	-	NSYMF88	NSYMR88	-	NSYSDCR300
800	1000	300(1)	-	NSYMM108	-	NSYMF108	NSYMR108	-	NSYSDCR300
800	1200	300(1)	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
1000	800	300	234	NSYMM108	-	NSYMF108	NSYMR108	NSYDLM240	NSYSDCR300
1000	1000	300	-	NSYMM1010	-	NSYMF1010	NSYMR1010	-	NSYSDCR300
1200	800	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
1200	1000	300	-	NSYMM1210	-	NSYMF1210	NSYMR1210	-	NSYSDCR300

(1) Three-point closure system.

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Life Is On Schneider Electric

Stainless steel wall-mounting enclosures

Plinth

- Material: Stainless steel, AISI 304L or AISI 316L
- Finish: Scotch-Brite® brushing, to help guarantee the durability in application where the contact with the floor increase the risk of corrosion
- Installation: It is necessary to order separately the plinth fixing kit (ref. **NSYAPFXWM**) composed by fixing elements and drilling jig


NSYSPFX8100

Characteristics	Width	References
Plinth height 100 mm, Kit (4 corners + front and back), AISI 304L	800	**NSYSPFX8100**
Plinth height 100 mm, Kit (4 corners + front and back), AISI 304L	1000	**NSYSPFX10100**
Plinth height 100 mm, Kit (4 corners + front and back), AISI 316L	600	**NSYSPFX6100H**
Plinth height 100 mm, Kit (4 corners + front and back), AISI 316L	800	**NSYSPFX8100H**
Plinth height 100 mm, Kit (4 corners + front and back), AISI 316L	1000	**NSYSPFX10100H**


NSYSPSX3100

Characteristics	Depth	References
Plinth height 100 mm, Set of 2 side panels, AISI 304L	300	**NSYSPSX3100**
Plinth height 100 mm, Set of 2 side panels, AISI 316L	300	**NSYSPSX3100H**


NSYSPFX8200

Characteristics	Width	References
Plinth height 200 mm, Kit (4 corners + front and back), AISI 304L	800	**NSYSPFX8200**
Plinth height 200 mm, Kit (4 corners + front and back), AISI 304L	1000	**NSYSPFX10200**
Plinth height 200 mm, Kit (4 corners + front and back), AISI 316L	600	**NSYSPFX6200H**
Plinth height 200 mm, Kit (4 corners + front and back), AISI 316L	800	**NSYSPFX8200H**
Plinth height 200 mm, Kit (4 corners + front and back), AISI 316L	1000	**NSYSPFX10200H**


NSYSPSX3200

Characteristics	Depth	References
Plinth height 200 mm, Set of 2 side panels (x2), AISI 304L	300	**NSYSPSX3200**
Plinth height 200 mm, Set of 2 side panels (x2), AISI 316L	300	**NSYSPSX3200H**

Plain mounting plate screw




NSYS13M5HS

Characteristics	Supply	References
Plain mounting plate screw, Self-tapping screw M5 x 13	100	**NSYS13M5HS**
Plain mounting plate screw, Self-tapping screw M5 x 16	100	**NSYS16M5HS**
Plain mounting plate screw, Self-tapping screw M6 x 16	100	**NSYS16M6HS**

Accessories

Clip-on nuts: page 260
Reference: **AF1EA6**
Cable entries: page 262
Reference: **NSYSAM504SE**

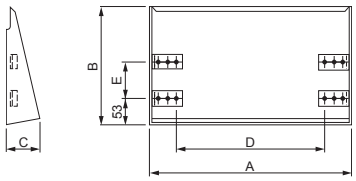
Stainless steel cable gland with lamellar insert: page 264
Reference: **NSYCGX12**
Lighting: page 286
Reference: **NSYLAMLDS**

Adhesive plastic document pocket: page 290
Reference: **NSYDPA44**
Door switch: page 290
Reference: **NSYINLCRN**

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Stainless steel wall-mounting enclosures

Canopy




NSYTX2015

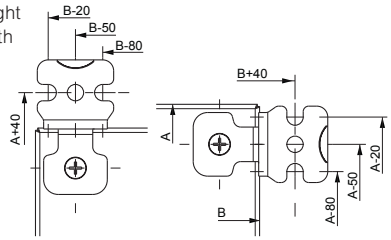
- Material: 304L stainless steel sheet
- Finish: Scotch-Brite® brushed
- Thickness: 15/10e mm
- Installation: Direct fixing to the body of the enclosure

Supply:
Delivered with the fixings required for installation

Characteristics	Width (mm)	Depth (mm)	Dimensions A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	References
Canopy	200	150	205	183	51	120	-	**NSYTX2015**
Canopy	250	150	205	183	51	120	-	**NSYTX2515**
Canopy	300	150	305	183	51	220	-	**NSYTX3015**
Canopy	300	200	305	233	51	220	70	**NSYTX3020**
Canopy	400	200	405	233	70	320	70	**NSYTX4020**
Canopy	600	200	605	233	70	520	70	**NSYTX6020**
Canopy	600	250	605	283	70	520	120	**NSYTX6025**
Canopy	1000	300	1005	333	70	920	170	**NSYTX10030**
Canopy	1200	300	1205	333	70	1120	120	**NSYTX12030**
Canopy	500	250	505	283	70	420	120	**NSYTX5025**
Canopy	800	300	805	333	70	720	170	**NSYTX8030**

Wall fixing lugs

- **A:** Enclosure height
- **B:** Enclosure width



Vertical position Horizontal position


NSYPFCX

Installation:
Mounting of the wall fixing lugs in horizontal or vertical position. Fixing from the outside.
- Wall-enclosure separation of 12 mm
- Maximum load: 250 kg

Supply:
Set of four wall fixing lugs

Characteristics	References
Wall fixing-lug, 304L stainless steel	**NSYPFCX**
Wall fixing-lug, 316L stainless steel	**NSYPFC2X**

Support bracket for enclosure with anti-tilt kit and reinforcement


NSYCOCNS1400

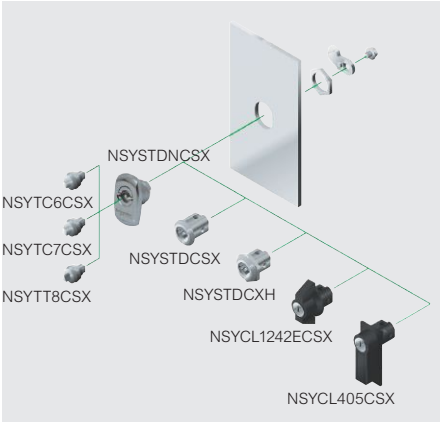
- Material: Steel
- The support bracket is used when the enclosure cannot be hung from a wall or a post.
- Suitable for outdoor use.
- Maximum enclosure dimensions: 1000 x 800 x 300 mm.
- Floor attachment by standard M12 fastenings.
- Finish: Epoxy polyester paint
- Colour: RAL 7035 grey
- Maximum load: 120 kg

Characteristics	Height (mm)	References
Support bracket for enclosure with anti-tilt kit and reinforcement	1400	**NSYCOCNS1400**
Support bracket for enclosure with anti-tilt kit and reinforcement	1800	**NSYCOCNS1800**

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Stainless steel wall-mounting enclosures

1 point lock options




NSYSTDNCSX


NSYSTDCX2H


NSYCBXHCRN


NSYCL610CSX


NSYCBXHCRN

- Protection rating: IP66
- For the closures of double door enclosures, contact us.

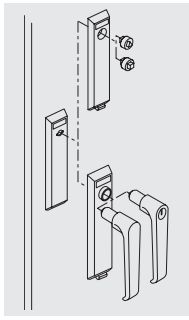
Characteristics	Type	Material	References
Double bar lock	Escutcheon with insert, 3 mm	Chrome-plated zamak	**NSYSTDNCSX**
Insert	triangular, 8 mm	304L stainless steel	**NSYTT8CSX**
Insert	square, 7 mm	304L stainless steel	**NSYTC7CSX**
Insert	square, 6 mm	304L stainless steel	**NSYTC6CSX**
Round lock	round, 3 mm (spare)	Chromeplated zamak	**NSYSTDCSX**
Round lock	round, 3 mm	304L stainless steel	**NSYSTDCXH**
Round lock	round	316 stainless steel, Consult us for availability.	**NSYSTDCX2H** New
Handle lock	Padlock	316 stainless steel, Consult us for availability.	**NSYCBXHCRN** New
Handle lock	1242E	Chrome-plated zamak	**NSYCL1242ECSX**
Handle lock	405	Polyamide	**NSYCL405CSX**
Handle lock	610	Polyamide	**NSYCL610CSX**

3 points lock options


NSYTSML


NSYTSMLS3D





- Protection rating: IP66

Type	Material	References
Handle lock	100% stainless steel	**NSYTSML**
Screw driver insert	Zamak	**NSYTSMLS3D**

Wall-mounting door retainer Steel

To block the door in the open position.
- It is installed on enclosures with heights from 400 mm and widths from 300 mm.
- Door opening angle: 120°.
- Earthing connection of the enclosure by means of the reinforcement rail.
- Earthing accessories supplied with the enclosure (earth-connection wire to be ordered separately), see page 295.
- Material: Steel

Comment:
It is not compatible with installing the 19" swing rack and the internal door.


NSYAEDRSCST

Characteristics	References
Wall-mounting door retainer Steel	**NSYAEDRSCST**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Stainless steel wall-mounting enclosures

Eyebolts, Consult us for availability

- Material: Stainless steel 304L
- Maximum load: 210 kg per enclosure when slinging at 60°
- Supply reinforcing brackets attached to therings (these brackets also act as a drilling template)



NSYAELYTCRXG8

Characteristics	References
Batch of 2 M8 eyebolts	**NSYAELYTCRXG8** New

Inner door

- 3 mm double bar lock.
- Not compatible with door retainer and door switch. Consult us.
- Maximum load: 30 kg/m²

Installation: As standard it can be mounted an inner door and a mounting plate, on the step slides, at the same time

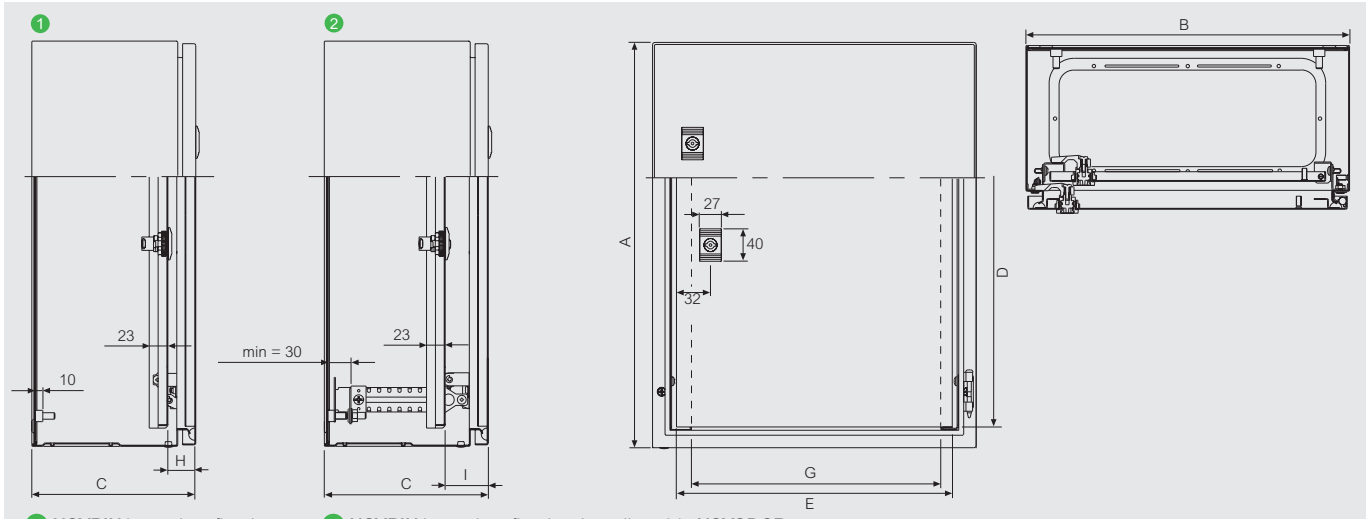
- Can be mounted either on the front side of the enclosure or on step slides (not suplied with standard)

Supply:
1 inner door



NSYPIN43

Characteristics	Height (mm)	Width (mm)	D (mm)	E (mm)	G (mm)	H (mm)	I min. (mm)	References
Inner door for wall-mounting enclosures	400	300	349	241	208	32	51	**NSYPIN43**
Inner door for wall-mounting enclosures	500	400	449	341	308	32	51	**NSYPIN54**
Inner door for wall-mounting enclosures	600	400	549	341	308	32	51	**NSYPIN64**
Inner door for wall-mounting enclosures	700	500	649	441	408	32	51	**NSYPIN75**
Inner door for wall-mounting enclosures	800	600	749	541	508	32	51	**NSYPIN86**
Inner door for wall-mounting enclosures	1000	800	949	741	708	32	51	**NSYPIN108**
Inner door for wall-mounting enclosures	1200	800	1149	741	708	32	52	**NSYPIN128**



● **NSYPIN** inner door fixed directly to the enclosure.

● **NSYPIN** inner door fixed to the adjustable **NSYSDCR●●** support.
In this case, both the inner door and the mounting plate may be depth adjustable.

Height (mm)	Width (mm)	D (mm)	E (mm)	G (mm)	H (mm)	I min. (mm)	References
400	300	349	241	208	32	51	**NSYPIN43**
500	400	449	341	308	32	51	**NSYPIN54**
600	400	549	341	308	32	51	**NSYPIN64**
700	500	649	441	408	32	51	**NSYPIN75**
800	600	749	541	508	32	51	**NSYPIN86**
1000	800	949	741	708	32	51	**NSYPIN108**
1200	800	1149	741	708	32	52	**NSYPIN128**

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Stainless steel wall-mounting enclosures

Fig. 1

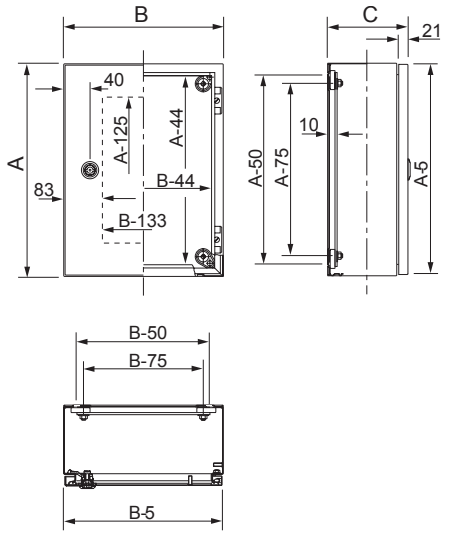
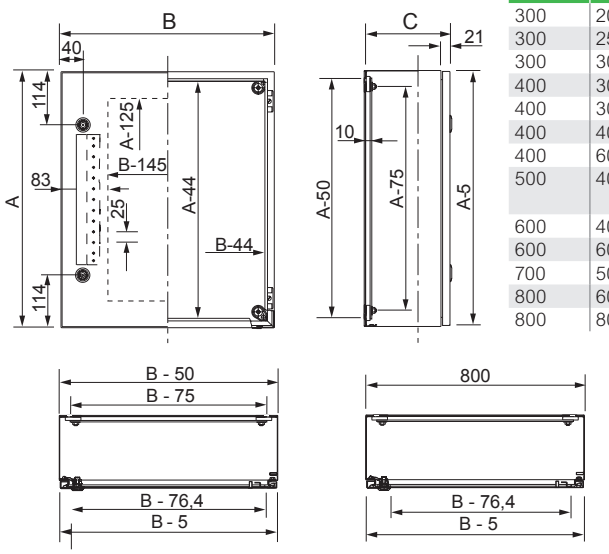


Fig. 2



External dimensions (mm)			Fig.
A	B	C	
300	200	150	1
300	250	150	1
300	300	150	1
400	300	150	1
400	300	200	1
400	400	200	1
400	600	200	1
500	400	200	2 Without door reinforcement
600	400	200	2
600	600	250	2
700	500	250	2
800	600	250	2
800	800	300	2

Fig. 3

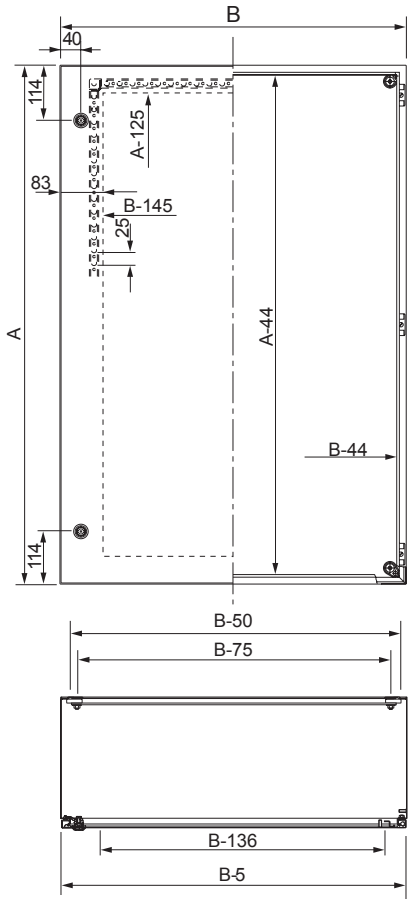
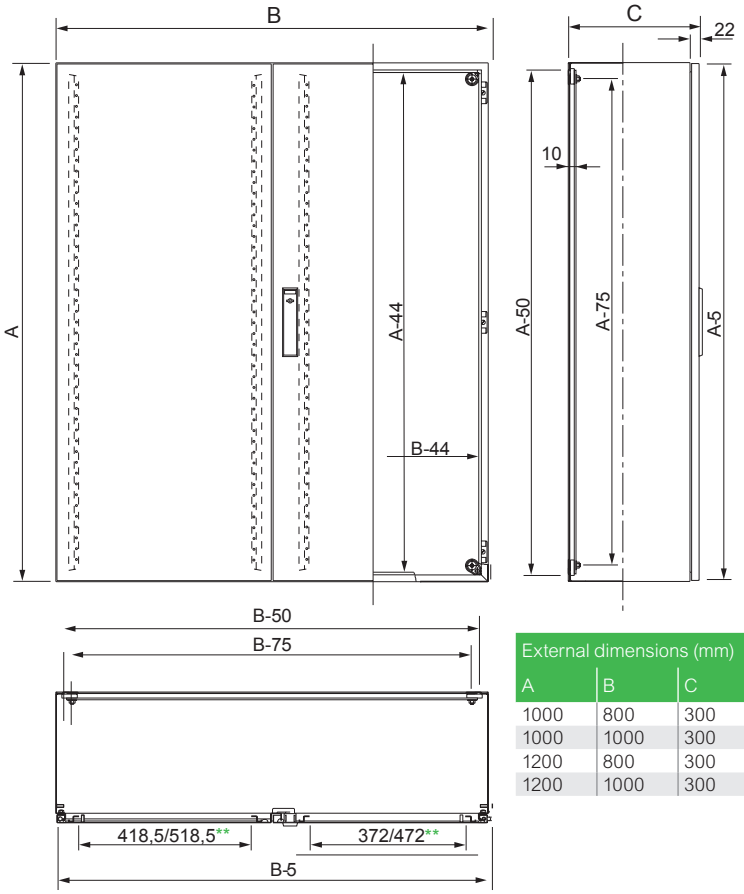


Fig. 4



External dimensions (mm)			Fig.
A	B	C	
1000	800	300	3
1000	1000	300	4
1200	800	300	3
1200	1000	300	4

** For glazed door.

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Spacial SMX



Spacial SFX



Stainless steel floor-standing enclosures

Spacial SMX SFX

Introduction	138
Characteristics	139
Accessories	140
Dimensions	144

Stainless steel floor-standing enclosures

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

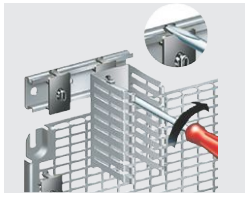






Material and finishes

- AISI 304L as standard in Spacial SMX and SFX.
- AISI 316L as standard in Spacial SMX and on request in Spacial SFX.
- Finishes:
- Scotch-Brite® brushed (standard).
- Micro-beaded (on request).
- Painted (on request).



Convenience and time saving

- Complete range of accessories for installation, cable management, etc.
- 316L stainless steel plinth: easy cable entry.
- 304L or 316L stainless steel plinth: easy cable entry (Spacial SFX and SMX).
- Reversible door opening to 120°.
- Padlock lock with key or form insert.
- Adjustment rails perforated with a pitch of 25 mm.
- Perforated reinforcement frame allowing accessories to be mounted on the door.



Sealing

- Protection rating against dust and water IP66 or IP55 depending model according to IEC 60529.
- 3-point closures.
- Canopy (optional):
- helps protect the sealing plane of the door,
- helps guarantee correct water drainage,
- no stagnation on the top.
- Single-piece cable gland plate with polyurethane gasket.



Compatible with the other ranges

- The mounting plates and other accessories of the Spacial SM and SF standards metal offers.



Hygiene

- The high quality of the standard finish enables very easy maintenance while avoiding contamination.
- The hygienic feet made from 316L stainless steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures.



Robustness and durability

- Resistance to external mechanical impacts: IK10 according to IEC 62262.
- 3 hinges made entirely from stainless steel.
- Door reinforcement frame.



Resistance to corrosion

- High resistance to corrosion. 304L and 316L stainless steels provide the best solutions for applications in extremely demanding environments.

See page 522 for details or consult our web site www.se.com

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.





Characteristics	Spacial SMX	Spacial SFX
	• Stainless steel sheet floor-standing enclosure, folded and welded. • Single and double front door, with reinforcement frame.	• Enclosure made up of a structure, consisting of top and bottom, rear panel and vertical profiles. • Single and double front door, with reinforcement frame.
Material	304L stainless steel, 316L stainless steel	304L stainless steel, 316L version (on request)
Finish	Scotch-Brite® brushed finish Micro-beaded and painted finishes (on request)	
Thickness	15/10e mm	Consult us
Ingress protection rating	IP66 according to IEC 62208 (single door enclosure)	
Mechanical protection rating	IK10 according to IEC 62262	
Standards and certifications	See technical guides page 614	
Installation	Outdoor installation: Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). **Comment:** For SMX and SFX is not mandatory the installation of a canopy for outdoor use	
Other characteristics	• Plain front door. Opening to left or right to 120° with reinforcement frame installed: • 3 stainless steel hinges • 3-point closure with handle made from painted zamak, 5 mm double bar • acceptable load of 50 kg	
Supply	• Welded compact body • Single-piece cable gland plate with sealing gasket • Welded mounting plate support brackets	• Welded rear panel • 4 mounting plate-supporting brackets • Single-piece cable gland plate with sealing gasket

Comment:
Dimensions,
see page 144

External dimensions				304L	316L	304L
						
Height (mm)	Width (mm)	Depth (mm)	Number of front doors	Stainless steel enclosure	Stainless steel enclosure	Stainless steel suitable enclosure
1400	1000	300	2	**NSYSMX141030**	–	–
1600	800	400	1	**NSYSMX16840**	–	–
1800	600	400	1	**NSYSMX18640**	–	**NSYSFX18640**
1800	800	400	1	**NSYSMX18840**	**NSYSMX18840H**	**NSYSFX18840**
1800	1200	400	2	**NSYSMX181240**	**NSYSMX181240H**	**NSYSFX181240**
1800	1600	400	2	**NSYSMX181640**	**NSYSMX181640H**	–
2000	600	500	1	–	–	**NSYSFX20650**
2000	800	400	1	–	–	**NSYSFX20840**
2000	800	500	1	**NSYSMX20850**	–	–
2000	800	600	1	–	–	**NSYSFX20860**
2000	1000	400	2	**NSYSMX201040**	**NSYSMX201040H**	–
2000	1000	600	2	–	–	**NSYSFX201060**
2000	1200	500	2	**NSYSMX201250**	**NSYSMX201250H**	–
2000	1200	600	2	–	–	**NSYSFX201260**
2000	1600	600	2	**NSYSMX201660**	**NSYSMX201660H**	–

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Stainless steel floor-standing enclosures

Plinth

- Material: Stainless steel, AISI 304L or AISI 316L
- Finish: Scotch-Brite® brushing, to help guarantee the durability in application where the contact with the floor increase the risk of corrosion
- Installation: It is necessary to order separately the plinth fixing kit (ref. **NSYAPFXWM**) composed by fixing elements and drilling jig

Comment:
Ventilated plinths made up of stainless steel from heavy duty outdoor enclosures (page 413) are compatible to Spacial SMX stainless steel compact enclosures.

Front and rear plinths

Supply:
4 corners, 2 panels (front and rear), 4 corner covers and fixing elements


NSYSPFX10100

Characteristics	AISI	Height (mm)	Width (mm)	References
Front and rear plinths	304L	100	600	**NSYSPFX6100**
Front and rear plinths	304L	100	800	**NSYSPFX8100**
Front and rear plinths	304L	100	1000	**NSYSPFX10100**
Front and rear plinths	304L	100	1200	**NSYSPFX12100**
Front and rear plinths	304L	100	1600	**NSYSPFX16100**
Front and rear plinths	316L	100	600	**NSYSPFX6100H**
Front and rear plinths	316L	100	800	**NSYSPFX8100H**
Front and rear plinths	316L	100	1000	**NSYSPFX10100H**
Front and rear plinths	316L	100	1200	**NSYSPFX12100H**
Front and rear plinths	316L	100	1600	**NSYSPFX16100H**

Side plinths

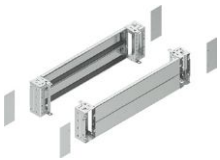
Supply:
2 side panels, 4 corner covers and fixing elements


NSYSPSX3100

Characteristics	AISI	Height (mm)	Depth (mm)	References
Side plinths	304L	100	300	**NSYSPSX3100**
Side plinths	304L	100	400	**NSYSPSX4100**
Side plinths	304L	100	500	**NSYSPSX5100**
Side plinths	304L	100	600	**NSYSPSX6100**
Side plinths	316L	100	300	**NSYSPSX3100H**
Side plinths	316L	100	400	**NSYSPSX4100H**
Side plinths	316L	100	500	**NSYSPSX5100H**
Side plinths	316L	100	600	**NSYSPSX6100H**

Front and rear plinths

Supply:
4 corners, 2 panels (front and rear), 4 corner covers and fixing elements


NSYSPFX10200

Characteristics	AISI	Height (mm)	Width (mm)	References
Front and rear plinths	304L	200	600	**NSYSPFX6200**
Front and rear plinths	304L	200	800	**NSYSPFX8200**
Front and rear plinths	304L	200	1000	**NSYSPFX10200**
Front and rear plinths	304L	200	1200	**NSYSPFX12200**
Front and rear plinths	304L	200	1600	**NSYSPFX16200**
Front and rear plinths	316L	200	600	**NSYSPFX6200H**
Front and rear plinths	316L	200	800	**NSYSPFX8200H**
Front and rear plinths	316L	200	1000	**NSYSPFX10200H**
Front and rear plinths	316L	200	1200	**NSYSPFX12200H**
Front and rear plinths	316L	200	1600	**NSYSPFX16200H**

Side plinths

Supply:
2 side panels, 4 corner covers and fixing elements


NSYSPSX3200

Characteristics	AISI	Height (mm)	Depth (mm)	References
Side plinths	304L	200	300	**NSYSPSX3200**
Side plinths	304L	200	400	**NSYSPSX4200**
Side plinths	304L	200	500	**NSYSPSX5200**
Side plinths	304L	200	600	**NSYSPSX6200**
Side plinths	316L	200	300	**NSYSPSX3200H**
Side plinths	316L	200	400	**NSYSPSX4200H**
Side plinths	316L	200	500	**NSYSPSX5200H**
Side plinths	316L	200	600	**NSYSPSX6200H**

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Stainless steel floor-standing enclosures

SMX Canopy


NSYSCMX10030

- Helps guarantee very high protection of the enclosure when used outdoors.
- Material: 304L stainless steel sheet
  Other types of stainless steel, contact us
- Finish: Scotch-Brite® brushed
- Other finishes, contact us
- Thickness 15/10e
- Installation: It is fixed in the same holes as the eyebolt.

Supply:
Delivered with fixings. Other dimensions and canopy for sets, contact us

Characteristics	Width (mm)	Depth (mm)	References
Top-mounting	600	400	**NSYSCMX6040** New
Top-mounting	800	400	**NSYSCMX8040** New
Top-mounting	800	500	**NSYSCMX8050** New
Top-mounting	1000	300	**NSYSCMX10030** New
Top-mounting	1000	400	**NSYSCMX10040** New
Top-mounting	1200	400	**NSYSCMX12040** New
Top-mounting	1200	500	**NSYSCMX12050** New
Top-mounting	1600	400	**NSYSCMX16040** New
Top-mounting	1600	600	**NSYSCMX16060** New

SFX Canopy


NSYSCX6040

Supply:
Delivered with fixings. Other dimensions and canopy for sets, contact us

Characteristics	Width (mm)	Depth (mm)	References
Top-mounting	600	400	**NSYSCX6040**
Top-mounting	600	500	**NSYSCX6050**
Top-mounting	800	400	**NSYSCX8040**
Top-mounting	800	600	**NSYSCX8060**
Top-mounting	1000	600	**NSYSCX10060**
Top-mounting	1200	400	**NSYSCX12040**
Top-mounting	1200	600	**NSYSCX12060**
Top-mounting (used when coupling 2 SFX together)	1200	500	**NSYSCX12050**
Top-mounting (used when coupling 2 SFX together)	1600	400	**NSYSCX16040**
Top-mounting (used when coupling 2 SFX together)	1600	600	**NSYSCX16060**

Locking options


NSYTDB5ME


NSYTDB5ME


NSYBCME

- The enclosures Spacial SMX and SFX are delivered as standard with retractable handle made from
- painted zamak with 5 mm double bar insert, spare ref. **NSYMCSX**
- Transformation of the standard insert by other shape inserts or barrels according the following table:

Door switch for Spacial SF and SFX: page 290
Reference: **NSYDCM20**
Door switch for Spacial SM: page 290
Reference: **NSYMDCM20**

Characteristics	Type	Supply	References
Shape insert	5 mm doublebar insert.	Insert with key	**NSYTDB5ME**
Shape insert	Square insert, 6 mm	Insert with key	**NSYTC6ME**
Shape insert	Square insert, 8 mm	Insert with key	**NSYTC8ME**
Shape insert	Triangular insert, 6.5 mm	1 pack	**NSYTT6ME**
Shape insert	Triangular insert, 8 mm	1 pack	**NSYTT8ME**
Padlocking system	Padlocking device	1 pack	**NSYBCME**
Barrels	Reinforced key and barrel	1 pack	**NSYTLRME**
Barrels	JIS key and barrel	1 pack	**NSYTLJISME**
Barrels	Manual	1 pack	**NSYTMME**
Barrels	Barrel and key 405E	Barrels with 1 key	**NSYTCL405ME**
Barrels	Barrel and key 610E	Barrels with 1 key	**NSYTCL610ME**
Barrels	Barrel and key 1242E	Barrels with 1 key	**NSYTL1242EME**

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Stainless steel floor-standing enclosures

SFX Side panels


NSY2SPX184

- Side panels including a polyurethane sealing gasket.
- Their special design helps guarantee the protection of the door gasket
- 304L stainless steel sheet

Characteristics	Height (mm)	Depth (mm)	References
Set of 2 side panels	1800	400	**NSY2SPX184**
Set of 2 side panels	2000	400	**NSY2SPX204**
Set of 2 side panels	2000	500	**NSY2SPX205**
Set of 2 side panels	2000	600	**NSY2SPX206**

SMX Plain mounting plate


NSYMP1410

Characteristics	Height (mm)	Width (mm)	References
Plain mounting plate	1400	1000	**NSYMP1410**
Plain mounting plate	1600	800	**NSYMP168**
Plain mounting plate	1800	600	**NSYMP186**
Plain mounting plate	1800	800	**NSYMP188**
Plain mounting plate	1800	1200	**NSYMP1812**
Plain mounting plate	1800	1600	**NSYMP1816**
Plain mounting plate	2000	800	**NSYMP208**
Plain mounting plate	2000	1000	**NSYMP2010**
Plain mounting plate	2000	1200	**NSYMP2012**
Plain mounting plate	2000	1600	**NSYMP2016**

6

SFX Plain mounting plate


NSYMP186

Characteristics	Height (mm)	Width (mm)	References
Plain mounting plate	1800	600	**NSYMP186**
Plain mounting plate	1800	800	**NSYMP188**
Plain mounting plate	1800	1200	**NSYMP1812**
Plain mounting plate	2000	600	**NSYMP206**
Plain mounting plate	2000	800	**NSYMP208**
Plain mounting plate	2000	1000	**NSYMP2010**
Plain mounting plate	2000	1200	**NSYMP2012**

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Stainless steel floor-standing enclosures

SMX SFX Uprights vertical


NSYVR18


NSYTVR14

Characteristics	Height (mm)	References
Uprights vertical, Standard	1800	**NSYVR18**
Uprights vertical, Standard	2000	**NSYVR20**
Uprights vertical, Technical	1400	**NSYTVR14**
Uprights vertical, Technical	1600	**NSYTVR16**
Uprights vertical, Technical	1800	**NSYTVR18**
Uprights vertical, Technical	2000	**NSYTVR20**

Eyebolts


NSYSMXEB

- Material: Stainless steel 304L
- Installation: It is fixed using fixing nuts supplied
- Maximum load: 340 kg for 1 eyebolt in vertical direction.

Supply:
Set of four M12 eyebolts

Characteristics	References
Eyebolt	**NSYSMXEB** New

SFX Lifting bracket


NSYPUNX

- Material: Treated steel
- Installation: They are fixed instead of the eyebolts on two suitable enclosures side-by-side, helping guarantee the rigidity of the enclosure when lifted
- Maximum load: 1300 kg when slinging at 60°

Supply:
Set of four lifting brackets

Characteristics	References
Lifting bracket for SFX	**NSYPUNX**

SMX Wall fixing lugs


NSYFCMX

- Material: Stainless steel 304L
- Installation: Mounting of the wall fixing lugs in horizontal or vertical position; Fixing from the outside
- Maximum load: Horizontal: 180 kg, Vertical: 350 kg

Supply:
Set of four wall fixing lugs

Characteristics	References
Wall fixing lugs for SMX	**NSYFCMX**

Hygienic feet

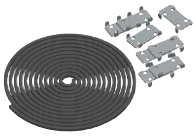

NSYPHX200

- Recommended for applications that require special hygiene conditions.
- Material: 316L stainless steel
- Installation: Adjustable between 140 mm and 200 mm height
- Maximum load: Per foot: 100 kg

Supply:
Set of 4 adjustable feet

Characteristics	References
Hygienic feet	**NSYPHX200**

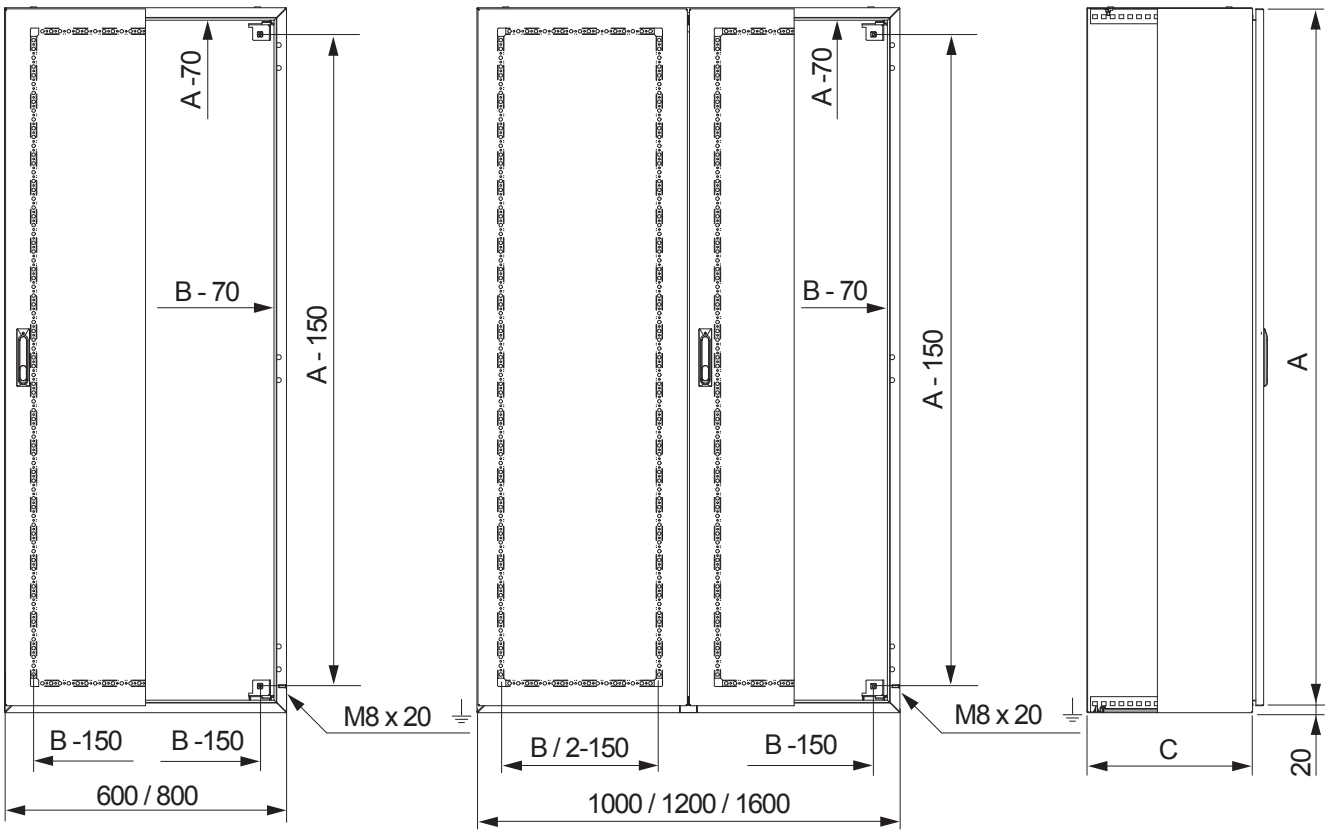
SFX Coupling kit

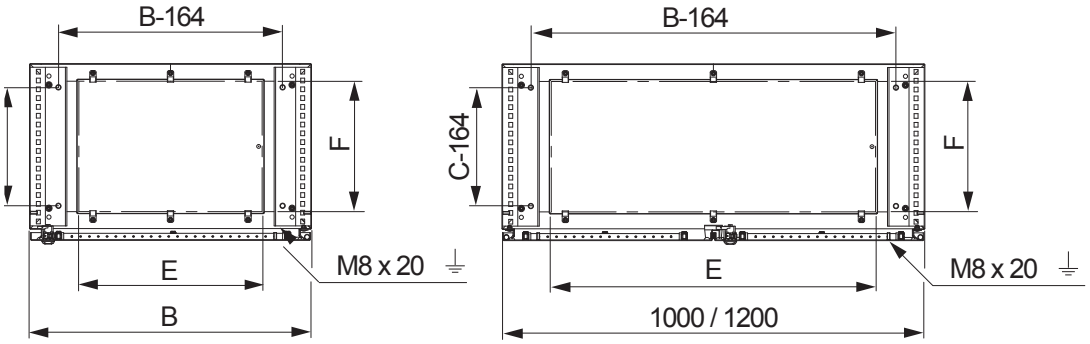

NSYSFBK19

- Used for joining enclosures side by side.
- Material: Flat connectors and brackets: Zinc-coated steel (**NSYSFBK19**); Sealing gasket: EPDM (**NSYSFXJG**)
- Ingress protection rating: IP55
- Installation: Fixing from the inside of the enclosures

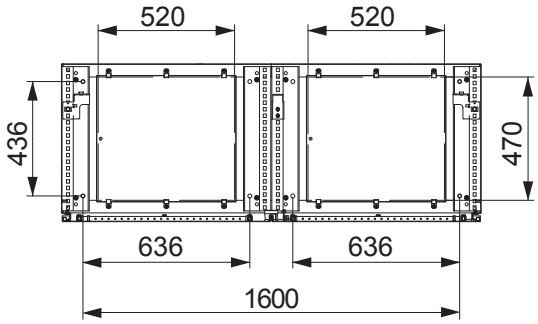
Characteristics	References
Coupling kit for SFX	**NSYSFBK19**
Coupling kit for SFX	**NSYSFXJG**

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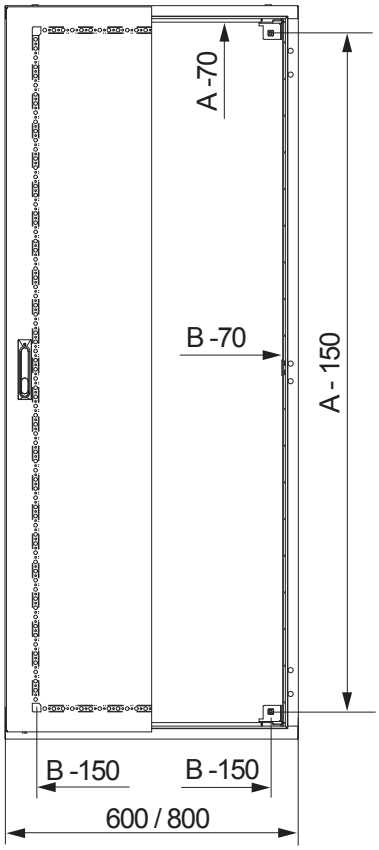
Enclosure width of 1000 and 1200 mm

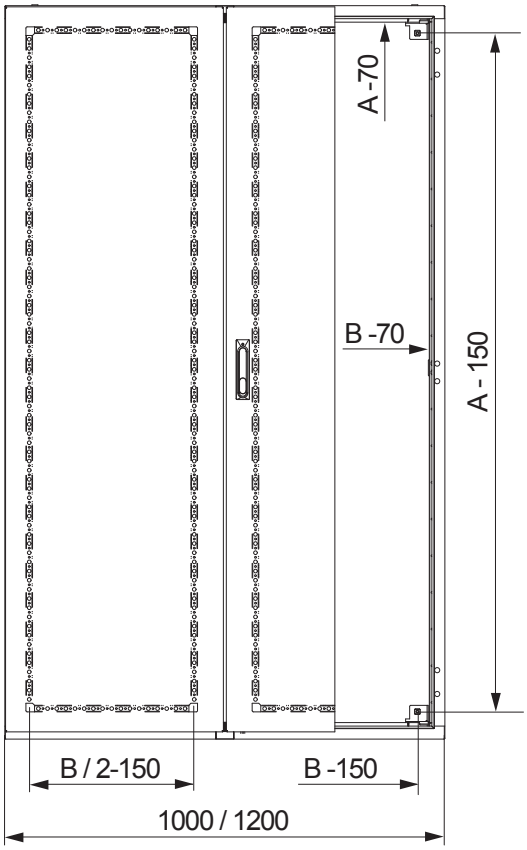


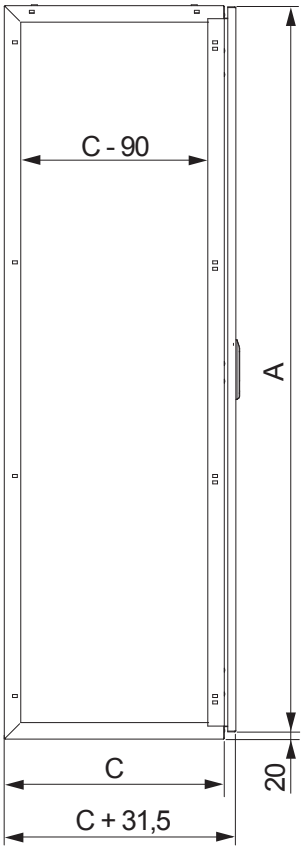
Enclosure width of 1600 mm

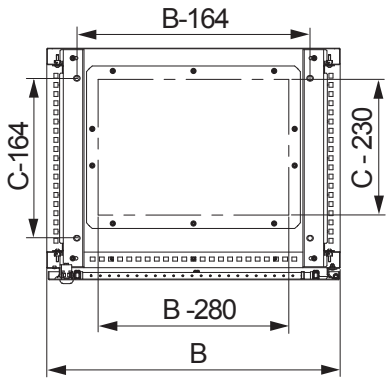
Floor-standing enclosure			No. of front doors	No. of cable gland plates	Dimensions	
Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)			E (mm)	F (mm)
1400	1000	300	1	1	720	270
1600	800	400	1	1	520	270
1800	600	400	1	1	520	270
1800	800	400	1	1	520	270
1800	1200	400	2	1	920	270
1800	1600	400	2	2	1320	270
2000	800	500	1	1	520	370
2000	1000	400	2	1	720	270
2000	1200	500	2	1	920	370
2000	1600	600	2	2	1320	470

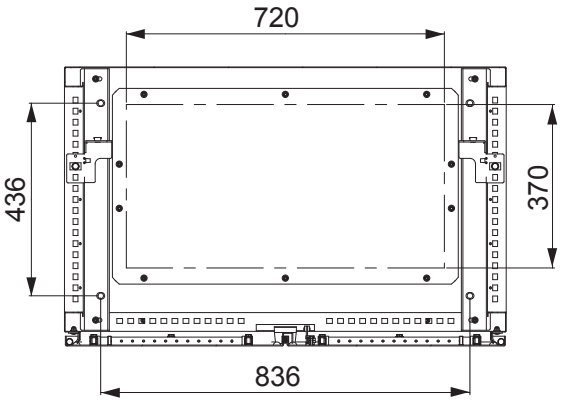
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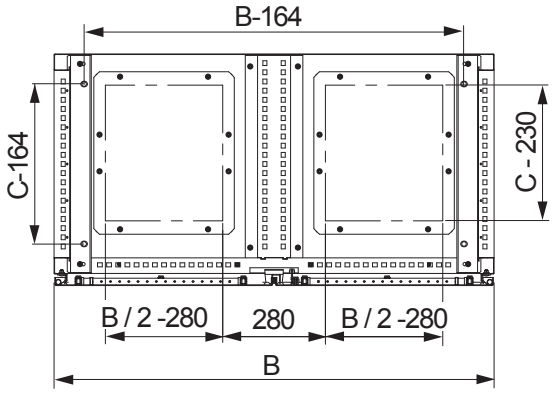








Enclosure width 1000



Enclosure width 1200 mm

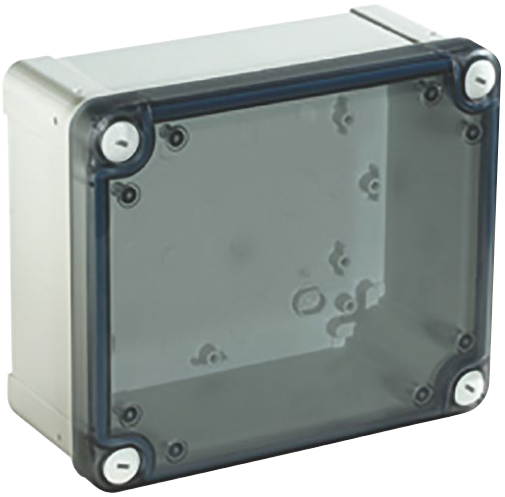
External dimensions			Number of front doors	No. of cable gland plates
Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)		
1800	600	400	1	1
1800	800	400	1	1
1800	1200	400	2	2
2000	600	500	1	1
2000	800	400	1	1
2000	800	600	1	1
2000	1000	600	2	1
2000	1200	600	2	2

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Thalassa TBS



Thalassa TBP



7

Thalassa PLS



Life Is On Schneider Electric

Insulating boxes

Thalassa TBS - TBP Insulating industrial boxes

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Thalassa PLS Insulating modular boxes



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Insulating industrial boxes

Insulating industrial boxes:
- ABS for conventional applications (IK07) with the usual constraints,
- polycarbonate for enhanced impact resistance (IK08) and for outdoor applications or applications directly exposed to UV,
- polycarbonate certified UL, IP66 rating for all ranges, Protection against electrical impacts Class II.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining





Easy to install
- 3 methods of fixing the box to its support



Smart
- Fixing studs on the cover.



Easy to use
- Only one tool is required: A flat screwdriver.

See page 522 for details or consult our web site www.se.com

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Class II






Characteristics	Universal boxes with IP66	Equipped button boxes, in ABS with IP54	ABS boxes for buttons, to be equipped
	Boxes that can be coupled (exactly the same dimensions) with kit ref. **13934**. Locks from box size of 116 x 116 x 62 mm: • cover locking by 4 plastic captive screws with coarse thread outside the sealed area, • plumbable lock. Locks from box size of 138 x 93 x 72 mm: • the standard screws (flat screwdriver) can be replaced with other standardised screws. The 4 reinforced edges of the cover help ensure its robustness and perfect support during customisation operations. Adaptable hinges on all the 20 and 40 mm covers.		
Material	ABS boxes: • transparent cover made of polycarbonate • glow wire resistance: 650°C according to IEC 60695-2-11 • usage temperature: -25°C...+60°C • installation temperature: -15 C...+40°C Polycarbonate boxes: • glow wire resistance: 960°C • usage temperature: -25°C...+80°C • installation temperature: -15°C...+60°C	ABS boxes: • glow wire resistance: 650°C according to IEC 60695-2-11 • usage temperature: -25°C...+60°C • installation temperature: -15 C...+40°C	
Colour	• Body: RAL 7035 grey • Cover: RAL 7035 grey or transparent		
Ingress protection rating	IP66 according to IEC 60529	IP54 according to IEC 60529	–
Mechanical protection rating	ABS: IK07 according to IEC 62262 Polycarbonate: IK08 according to IEC 62262	ABS: IK07 according to IEC 62262	
Standards	IEC 62208		
Certifications	• IEC 62208 certified by TÜV • UL 508A: Polycarbonate range • Product Environmental Profile • Class II according to IEC 61140 Polycarbonate range: • NEMA 4.4X according to NEMA 250 • self-extinguishing: UL 94 V-0	• IEC 62208 certified by TÜV • Product Environmental Profile • Class II according to IEC 61140	
Installation	Fixing the box: • Outside the sealed sensitive volume by the 4 chimneys in the corners from box size of 138 x 93 x 72 mm • Through the rear of the box by 2 or 4 elongated holes to be perforated • With fixing lugs from box size of 116 x 116 x 62 mm (ref. **NSYAEFTB**) Outdoor installation, only for polycarbonate range: Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). Equipment installation: • Studs for fixing the equipment in the body and the cover of the box by means of a Ø 4 mm self-tapping screw (ref. **NSYAMFSTB**, screw Ø 4 x 10 mm with Pozidriv and slotted head) • Option of installing rails, plates or other types of supports (card, etc.) • Spacers and stand-offs to be installed on the studs, for adjusting the height of the equipment		

Comment:
For external use and based on the configuration of the installation, a canopy must be installed on the upper side of the boxes or the boxes should be installed under a shelter to protect them against the different weather conditions and to avoid water stagnation between body and lid. Anti-condensation valves must be installed to help prevent condensation and deformations of the boxes.

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Insulating industrial boxes

Comment:
Dimensions, see page 170

Overall external dimensions			Overall internal dimensions							Universal boxes with IP66			
										ABS IP66 IK07		PC-UL IP66 IK08	
													
										Opaque cover	Transparent cover	Opaque cover	Transparent cover
Height (mm)	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Depth (mm)	Body (mm)	Cover (mm)	Minor pack.	Cover screw	References	References	References	References
74	74	54	65	65	47	37	10	5	Metal	**NSYTBS775**	-	**NSYTBP775**	-
89	89	54	80	80	47	37	10	5	Metal	**NSYTBS885**	-	**NSYTBP885**	-
116	74	62	105	65	55	45	10	5	Metal	**NSYTBS1176**	-	**NSYTBP1176**	-
116	74	94	105	65	85	45	40	3	Metal	**NSYTBS1179H**	-	-	-
116	116	62	105	105	55	45	10	5	Plastic	**NSYTBS11116**	-	**NSYTBP11116**	-
138	116	133	105	105	125	45	80	2	Plastic	**NSYTBS111113H**	-	-	-
164	93	72	125	80	65	45	20	2	Plastic	**NSYTBS1397**	**NSYTBS1397T**	**NSYTBP1397**	**NSYTBP1397T**
192	121	87	150	105	80	60	20	2	Plastic	**NSYTBS16128**	**NSYTBS16128T**	**NSYTBP16128**	**NSYTBP16128T**
192	121	87	175	105	80	60	20	2	Plastic	**NSYTBS19128**	**NSYTBS19128T**	**NSYTBP19128**	**NSYTBP19128T**
192	121	105	175	105	100	60	40	2	Plastic	**NSYTBS191210H**	**NSYTBS191210HT**	**NSYTBP191210H**	**NSYTBP191210HT**
192	164	87	175	150	80	60	20	1	Plastic	**NSYTBS19168**	**NSYTBS19168T**	**NSYTBP19168**	**NSYTBP19168T**
192	164	105	175	150	100	60	40	1	Plastic	**NSYTBS191610H**	**NSYTBS191610HT**	**NSYTBP191610H**	**NSYTBP191610HT**
241	194	87	225	175	80	60	20	1	Plastic	**NSYTBS24198**	**NSYTBS24198T**	**NSYTBP24198**	**NSYTBP24198T**
241	194	107	225	175	100	80	20	1	Plastic	**NSYTBS241910**	**NSYTBS241910T**	**NSYTBP241910**	**NSYTBP241910T**
241	194	107	225	175	100	60	40	1	Plastic	**NSYTBS241910H**	**NSYTBS241910HT**	**NSYTBP241910H**	**NSYTBP241910HT**
241	194	127	225	175	120	80	40	1	Plastic	**NSYTBS241912H**	**NSYTBS241912HT**	**NSYTBP241912H**	**NSYTBP241912HT**
291	241	88	275	225	80	60	20	1	Plastic	**NSYTBS29248**	**NSYTBS29248T**	**NSYTBP29248**	**NSYTBP29248T**
291	241	128	275	225	120	100	20	1	Plastic	**NSYTBS292412**	**NSYTBS292412T**	**NSYTBP292412**	**NSYTBP292412T**
291	241	128	275	225	120	60	60	1	Plastic	**NSYTBS292412H**	**NSYTBS292412HT**	**NSYTBP292412H**	**NSYTBP292412HT**
291	241	168	275	225	160	100	60	1	Plastic	**NSYTBS292416H**	**NSYTBS292416HT**	**NSYTBP292416H**	**NSYTBP292416HT**
341	291	128	325	275	120	100	20	1	Plastic	**NSYTBS342912**	**NSYTBS342912T**	**NSYTBP342912**	**NSYTBP342912T**
341	291	168	325	275	160	100	60	1	Plastic	**NSYTBS342916H**	**NSYTBS342916HT**	**NSYTBP342916H**	**NSYTBP342916HT**

Mounting plates made to adapt to all usage scenarios

Installation:

- Fixing by means of Ø 4 mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB**
- To raise the plate, use the stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**, **NSYAMFET304TB** and the screw **NSYAMFESTB**

Supply:
Plates supplied without screws

Box		Mounting plate dimensions			Mounting plates	
						
					Material: Galvanised steel	**Material:** Insulating polyester plate reinforced with fibreglass, halogen-free: Glow wire resistance 750°C according to IEC 60695-2-11.
					Thickness: 15/10e mm	Thickness: 25/10e mm
Height (mm)	Width (mm)	A (mm)	B (mm)	Minor pack.	References	References
192	164	168.5	140	1	**NSYAMPM1916TB**	**NSYAMPA1916TB**
241	194	215	168.5	1	**NSYAMPM2419TB**	**NSYAMPA2419TB**
291	241	265	215	1	**NSYAMPM2924TB**	**NSYAMPA2924TB**
341	291	315	265	1	**NSYAMPM3429TB**	**NSYAMPA3429TB**

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Insulating industrial boxes

Button description

- Emergency switching off function with a red, Ø 40 mm, "turn to unlock" palm button.
- Start / Stop function with 2 push buttons.
- Up / Down / Stop function with 3 push buttons.

Technical features of the switches:

- "NC" switch with positive opening manoeuvre according to IEC 60947-5-1 appendix K,
- mechanical durability of the emergency switch: 0.1 million cycles,
- mechanical durability of the "NC" and "NO" switches: 5 million cycles,
- protection against short circuits: 10 A.

- Ref. **XALEK1702** houses an emergency switching off palm button with mechanical locking according to standards IEC 60364-5-53 and 60947-5-5.

Comment:
Dimensions, see page 170



Overall external dimensions			Overall internal dimensions								Boxes equipped with IP54 ABS buttons	ABS button boxes, to be equipped
Height (mm)	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Depth (mm)	Body (mm)	Cover (mm)	Minor pack.	No. of holes	Function	References	References
74	74	83	-	-	-	-	-	1	-	Emergency switching off	**XALEK170**	-
116	74	62	105	65	55	45	10, Grey	5	2	-	-	**XALE2**
116	74	62	105	65	55	45	10, Grey	5	3	-	-	**XALE3**
116	74	75	-	-	-	-	-	1	-	Start / stop	**XALE2141**	-
116	74	75	-	-	-	-	-	1	-	Up / down / stop	**XALE3255**	-

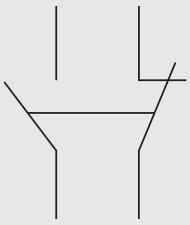
Function	Type of push	Type NO
Emergency switching off	Latching, red	1
Start/stop		
Start	Flush, green	1
Stop	Projecting, red	-
Up / down / stop		
Up	Flush, black	-
Down	Flush, white	-
Stop	Projecting, red	-



Function	Type of push	Type NC
Emergency switching off	Latching, red	1
Start/stop		
Start	Flush, green	-
Stop	Projecting, red	1
Up / down / stop		
Up	Flush, black	-
Down	Flush, white	-
Stop	Projecting, red	1



Function	Type of push	Type C / O
Emergency switching off	Latching, red	-
Start/stop		
Start	Flush, green	-
Stop	Projecting, red	-
Up / down / stop		
Up	Flush, black	1
Down	Flush, white	1
Stop	Projecting, red	-



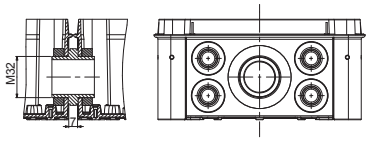
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Insulating industrial boxes

Coupling kit


13934



The coupling kit allows you to join several boxes with dimensions from 138 x 93 mm.
- Material: Polystyrene, glow wire resistance: 650°C according to IEC 60695-2-11
- Ingress protection rating: IP66 according to IEC 60529
- Installation: The kit is installed by drilling a hole with Ø 32 mm in the boxes to be coupled

Supply:
The kit consists of 2 linking parts, nuts and seals

Characteristics	Drilling Ø	Minor pack.	Reference
Coupling kit	32 mm	1	**13934**

Sealed anti-condensation valve


NSYCAG12LPH1

Controls the pressure to avoid condensation and/or deformations of the boxes due to the internal temperature increase. Applications Protection of equipment for luminaires, industrial control, transportation, pumps, etc.
- Material: PA6-V2, acrylic co-polymer membrane, water and oil repellent
- Ingress protection rating: IP68
- Installation: The valve is installed by drilling a hole with Ø 12 mm in the box
- Usage temperature: -40...+105°C
- Permeability: Air flow under ΔP = 0.7 bar
- Pressure difference: Condition for IP68

Supply:
10 valves, nuts and seals

Characteristics	Permeability	Pressure difference	Drilling Ø	Minor pack.	Reference
Sealed anti-condensation valve IP68	16 litres/h	ΔP < 1 bar	12 mm	1	**NSYCAG12LPH1**
Sealed anti-condensation valve IP68	120 litres/h	ΔP < 0.1 bar	12 mm	1	**NSYCAG12LPH2**

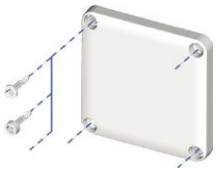
Cover accessories Set


NSYAEDST620TB


NSYAEDSB320TB


NSYAEDS20TB

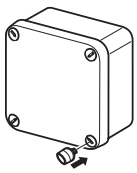
- The Thalassa boxes are delivered as standard with slotted-head screws for flat screwdrivers from 4 to 5.5 mm.
- With box sizes from 138 x 93 x 72 mm, these screws canbe replaced for screws with different standardised heads, to comply with most cases.
- After removing the standard screw, simply positionthe new screw by pressing on it.
- The adapter clips (intermediate parts for tightening thecover on the body of the box) are the same as those for thestandard screws. They are not delivered with the shape screws.
- A single key for opening the boxes as well as the other enclosures of your installation.



Supply:
Set of 4 shape screws

Characteristics	Minor pack.	Reference
Triangle screw Ø8 mm, for Thalassa boxes, Height of the lid 20 mm	1	**NSYAEDST820TB**
Double bar screw Ø5 mm, for Thalassa boxes, Height of the lid 20 mm	1	**NSYAEDSB520TB**
Spare standard plastic screw for Thalassa boxes, Height of the lid 20 mm	1	**NSYAEDS20TB**
Spare standard plastic screw for Thalassa boxes, Height of the lid 40 mm	1	**NSYAEDS40TB**
Spare standard plastic screw for Thalassa boxes, Height of the lid 60 mm	1	**NSYAEDS60TB**

Cover accessories Pack




NSYAEDKTB

- The handle (or thumbwheel) allows the screws to be handled without any tools. It is ideally associated with a box equipped with hinges.
- It snaps onto the head of the standard plastic screw.

Supply:
Pack of 4 handles

Characteristics	Minor pack.	Reference
Handles	1	**NSYAEDKTB**

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Insulating industrial boxes

Terminal blocks

- The new Linergy TR terminal blocks have 3 types of connections: screw, spring or "push-in" and they can be mounted on a DIN rail.
- Available in grey, blue, orange, red, green, black or white color.

Supply:
Minor pack. 50

Terminal blocks Screw connection


NSYTRV22

Characteristics	H (mm)	W (mm)	D (mm)	Reference
Screw connection Passthrough, 2.5 mm², grey	47.7	5.2	47.5	**NSYTRV22**
Screw connection Passthrough, 2.5 mm², blue	47.7	5.2	47.5	**NSYTRV22BL**
Screw connection Protective earth, 2.5 mm²	47.7	5.2	47.5	**NSYTRV22PE**
Screw connection Passthrough, 4 mm², grey	47.7	6.2	47.5	**NSYTRV44**
Screw connection Passthrough, 4 mm², blue	47.7	6.2	47.5	**NSYTRV44BL**
Screw connection Protective earth, 4 mm²	47.7	6.2	47.5	**NSYTRV44PE**

Terminal blocks Spring connection


NSYTRR22

Characteristics	H (mm)	W (mm)	D (mm)	Reference
Spring connection Passthrough, 2.5 mm², grey	36.5	5.2	48.5	**NSYTRR22**
Spring connection Passthrough, 2.5 mm², blue	36.5	5.2	48.5	**NSYTRR22BL**
Spring connection Protective earth, 2.5 mm²	36.5	5.2	48.5	**NSYTRR22PE**
Spring connection Passthrough, 4 mm², grey	36.5	6.2	56	**NSYTRR42**
Spring connection Passthrough, 4 mm², blue	36.5	6.2	56	**NSYTRR42BL**
Spring connection Protective earth, 4 mm²	36.5	6.2	56	**NSYTRR42PE**

Terminal blocks "Push-in" connection


NSYTRP22

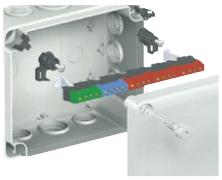
Characteristics	H (mm)	W (mm)	D (mm)	Reference
"Push-in" connection Passthrough, 2.5 mm², grey	36.5	5.2	48.5	**NSYTRP22**
"Push-in" connection Passthrough, 2.5 mm², blue	36.5	5.2	48.5	**NSYTRP22BL**
"Push-in" connection Protective earth, 2.5 mm²	36.5	5.2	48.5	**NSYTRP22PE**
"Push-in" connection Passthrough, 4 mm², grey	36.5	6.2	56	**NSYTRP42**
"Push-in" connection Passthrough, 4 mm², blue	36.5	6.2	56	**NSYTRP42BL**
"Push-in" connection Protective earth, 4 mm²	36.5	6.2	56	**NSYTRP42PE**

4-hole terminal blocks


IMT34003


IMT34005


IMT34007

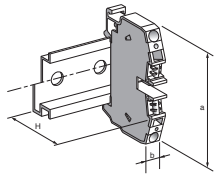


- The terminal-block support bar is particularly well suited to the thermoplastic boxes.
- Boxes with sizes from 192 x 116 mm can accommodate a terminal-block support bar of 12 x 2 mm.
- The screwing terminal blocks are easily clipped onto this bar.
- Terminal-block connection capacity: See the selection table below.
- 4-hole terminal block length (Lb): 30 mm.
- The earth terminal snap fits into boxes with dimensions of less than 116 x 116 mm.

Supply:
Red (live) Minor pack. 10
Blue (neutral) Minor pack. 5
Green (earth) Minor pack. 5

Characteristics	Reference
4-hole terminal blocks 2 x 10^2 + 2 x 16^2 – Red (live)	**IMT34003**
Earth terminal block 2 x 252 – Red (live)	**IMT34009**
4-hole terminal blocks 2 x 10^2 + 2 x 16^2 – Blue (neutral)	**IMT34005**
4-hole terminal blocks 2 x 10^2 + 2 x 16^2 – Green (earth)	**IMT34007**

Terminal-block support bar


IMT34000

Supply:
Minor pack. 1

- Discover our complete terminal blocks range in **LVYED213001EN**.

Characteristics	No. of Terminal blocks 2 x 102 + 2 x 162 4 holes	Support length Ls (mm)	Height or width (mm)	Min.depth (mm)	Reference
Terminal-block support bar	4	140	192	87	**IMT34000**
Terminal-block support bar	6	185	241	87	**IMT34001**
Terminal-block support bar	8	235	291	128	**IMT34002**

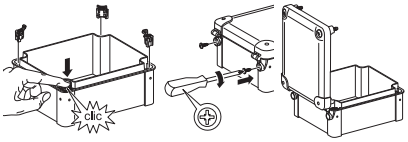
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Insulating industrial boxes

Hinges, Set of 2 hinges


NSYAEDH20TB

- The hinges can be adapted to all covers with a height of 20 and 40 mm with dimensions from 138 x 93 mm.
- The hinge allows the lid to open fully to 200°.
- Ingress protection rating: IP66 according to IEC 60529
- Installation: The hinge does not require any machining and is installed
- easily even with the box already equipped
- Maximum load: Hinged cover: 10 kg/m²



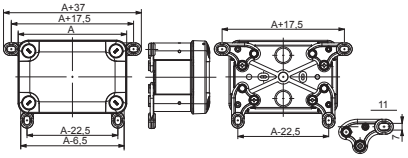
Supply:
The hinges (2 per set) are delivered with the fixings, minor pack 1

Characteristics	Height of the lid (mm)	References
Set of 2 hinges	20	**NSYAEDH20TB**
Set of 2 hinges	40	**NSYAEDH40TB**

Hinges, Set of 4 fixing lugs


NSYAEFTB

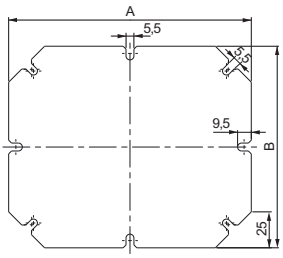
- Plastic fixing lugs for installation on boxes with dimensions from 116 x 116 mm.
- Option of vertical or horizontal installation.
- Installation: Installation by a single screw at the last moment, with the box closed and equipped
- Maximum load: Body: 30 kg/m², Cover: 10 kg/m²



Supply:
4 lugs + screws, minor pack 1

Characteristics	Reference
Set of 4 fixing lugs	**NSYAEFTB**

Mounting plates

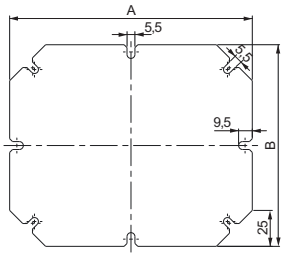


- Mounting plates made to adapt to all usage scenarios.
- Material: Galvanised steel
- Thickness: 15/10e mm
- Installation: Fixing by means of Ø 4 mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB**
- To raise the plate, use the stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**,
- **NSYAMFET304TB** and the screw **NSYAMFESTB**

Supply:
Plates supplied without screws


NSYAMPM1916TB

Characteristics	Box		Dimensions		Minor pack.	References
	Height (mm)	Width (mm)	A (mm)	B (mm)		
Mounting plate	192	164	168.5	140	1	**NSYAMPM1916TB**
Mounting plate	241	194	215	168.5	1	**NSYAMPM2419TB**
Mounting plate	291	241	265	215	1	**NSYAMPM2924TB**
Mounting plate	341	291	315	265	1	**NSYAMPM3429TB**



- Mounting plates made to adapt to all usage scenarios.
- Material: Insulating polyester plate reinforced with fibreglass, halogen-free: Glow wire resistance 750°C.
- Thickness: 25/10e mm
- Installation: Fixing by means of Ø 4 mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB**
- To raise the plate, use the stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**,
- **NSYAMFET304TB** and the screw **NSYAMFESTB**

Supply:
Plates supplied without screws


NSYAMPA1916TB

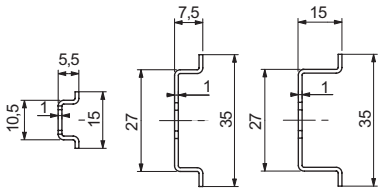
Characteristics	Box		Dimensions		Minor pack.	References
	Height (mm)	Width (mm)	A (mm)	B (mm)		
Insulating mounting plate	192	164	168.5	140	1	**NSYAMPA1916TB**
Insulating mounting plate	241	194	215	168.5	1	**NSYAMPA2419TB**
Insulating mounting plate	291	241	265	215	1	**NSYAMPA2924TB**
Insulating mounting plate	341	291	315	265	1	**NSYAMPA3429TB**

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Life Is On Schneider Electric

Insulating industrial boxes

Symmetric DIN rails



- A 15 x 5 mm rail is provided for the compact terminal blocks.
- To raise the rail, use stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**, **NSYAMFET304TB** and the screw **NSYAMFESTB**.
- Installation: Fixing of the rails with Ø 4 mm self-tapping screws, (not included), Pozidrive and slotted head, ref. **NSYAMFSTB**

Supply:
Supplied without screws
(except for the 15 x 5 mm rails)


NSYAMRD11155TB


NSYAMRD11357TB


NSYAMRD243515TB

Characteristics	Height (mm)	Depth (mm)	Length (mm)	Box (mm)	References
Symmetric DIN rail	15	5	97	105	**NSYAMRD11155TB**
Symmetric DIN rail	15	5	140	150	**NSYAMRD16155TB**
Symmetric DIN rail	15	5	168	175	**NSYAMRD19155TB**
Symmetric DIN rail	15	5	214	225	**NSYAMRD24155TB**
Symmetric DIN rail	15	5	264	275	**NSYAMRD29155TB**
Symmetric DIN rail	15	5	316	325	**NSYAMRD34155TB**
Symmetric DIN rail	35	7.5	97	105	**NSYAMRD11357TB**
Symmetric DIN rail	35	7.5	140	150	**NSYAMRD16357TB**
Symmetric DIN rail	35	7.5	168	175	**NSYAMRD19357TB**
Symmetric DIN rail	35	7.5	214	225	**NSYAMRD24357TB**
Symmetric DIN rail	35	7.5	264	275	**NSYAMRD29357TB**
Symmetric DIN rail	35	7.5	316	325	**NSYAMRD34357TB**
Symmetric DIN rail	35	15	214	225	**NSYAMRD243515TB**
Symmetric DIN rail	35	15	264	275	**NSYAMRD293515TB**
Symmetric DIN rail	35	15	316	325	**NSYAMRD343515TB**

Screws for rails


NSYAMFSTB

- Ø 4 x 10 mm

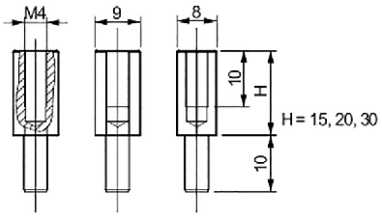
Supply:
Pack of 100 screws

Characteristics	References
Screws Ø4 mm, height 10 mm	**NSYAMFSTB**

7

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Stand-offs



- Stand-offs consisting of a Ø 4 mm self-tapping thread at one end (for direct screwing into the rivets of the box) and an M4 tapping on the other end, for direct installation of a card with an M4 screw, ref. **NSYAMFESTB**, or of a spacer.
- Material: Steel

Supply:
Set of four M4 self-tapping stand-offs


NSYAMFET154TB

Characteristics	Minor pack.	References
Stand-offs M4, steel, height: 15 mm	1	**NSYAMFET154TB**
Stand-offs M4, steel, height: 20 mm	1	**NSYAMFET204TB**
Stand-offs M4, steel, height: 30 mm	1	**NSYAMFET304TB**

Screw for stand-offs and spacers


NSYAMFESTB

- M4 x 10 mm screw for fixing cards on the spacers and stand-offs.
- The plate always at the right level.
- A single Ø 4 mm screw for fixing any element.

Supply:
Batch of 50 screws

Characteristics	Minor pack.	References
Screw Ø4x100 for fixing cards on the spacers and stand-offs	1	**NSYAMFESTB**

7

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Insulating industrial boxes

Simple-1	Simple-2	Simple-3	Simple-4	Simple-5	Synthetic snap in cable gland
				New	
					
Mixed membrane entries for enclosure thickness 20/10e - 32/10e mm.	PVC adjustable conesha-ped entries for enclosure thickness 30/10e - 32/10e mm.	Quick cable entries for enclosure thickness 10/10e - 40/10e mm (5/10e - 20/10e mm for ref. **IMT36179**).	PVC adjustable conesha-ped entries for PG tubes or for enclosure thickness 12/10e - 15/10e mm.	Presse-étoupe ISO.	Without thread. Easy assembly and dis-assembly. Suitable for walls from 0.5 to 4 mm thick.
ISM71071	**NSYECPC3**	**IMT36179**	**NSYEC7**	**ISM71501**	**NSYCGSP16**
ISM71072	**NSYECPC5**	**IMT36180**		**ISM71502**	**NSYCGSP20**
ISM71073	**NSYECPC6**	**IMT36181**		**ISM71503**	**NSYCGSP25**
ISM71074	**NSYECPC9**	**IMT36182**		**ISM71504**	**NSYCGSP32**
IMT36172	**NSYECPC15**	**IMT36183**		**ISM71505**	**NSYCGSP40**
IMT36173		**IMT36184**		**ISM71506**	
		IMT36185		**IMT36150**	

Accesories bag for enclosure TBS/TBP



NSYTBPASBS

Characteristics	References
Spare Parts	**NSYTBPASBS**

Simple-1

- Mixed membrane entries for enclosure thickness 20/10e - 32/10e mm.
- Material: SBS
- Colour: RAL 7035 grey or RAL 9010 white
- Cable entry material: Soft membrane
- Cable glands to be fitted: Not applicable
- Installation possibilities: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP55 according to IEC 60529
- Cable retention: Low
- Cable diameter (mm): From 20 to 40
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 23 to 44
- Flame resistance: 750°C

Supply:
Minor packaging of 10 pieces



ISM71074

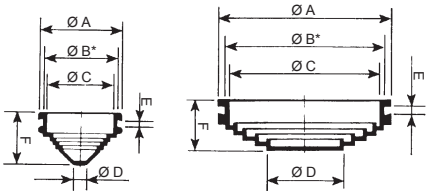
Characteristics	Drill hole Ø (mm)	Cable / conduit Ø (mm)	References
Mixed membrane entries for IP55 direct cable entries, RAL 9010	23	4 - 20	**IMT36172**
Mixed membrane entries for IP55 direct cable entries, RAL 9010	29	4 - 25	**IMT36173**
Mixed membrane entries for IP55 direct cable entries, RAL 7035	23	4 - 20	**ISM71071**
Mixed membrane entries for IP55 direct cable entries, RAL 7035	29	4 - 25	**ISM71072**
Mixed membrane entries for IP55 direct cable entries, RAL 7035	36	4 - 32	**ISM71073**
Mixed membrane entries for IP55 direct cable entries, RAL 7035	44	4 - 40	**ISM71074**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulating industrial boxes

Simple-2

- PVC adjustable coneshaped entries for enclosure thickness 30/10e - 32/10e mm.
- Material: PVC
- Cable entry material: Soft membrane
- Cable glands to be fitted: Not applicable
- Installation possibilities: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP55 according to IEC 60529
- Cable retention: Low
- Cable diameter (mm): From 5 to 87
- Cable Installation time Fast
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 25 to 98



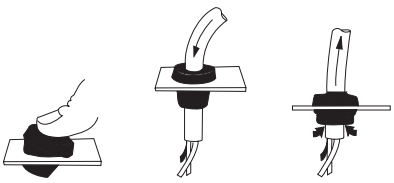
Supply:
NSYECPC3 50 cable entries, **NSYECPC5** and **NSYECPC6** each 25 cable entries, **NSYECPC9** and **NSYECPC15** each 10 cable entries


NSYECPC15

Characteristics	Dimensions (mm)						Capacity		References
	Ø A	Ø B	Ø C	Ø D	E	F	Cable (Ø mm)	Tube	
PVC adjustable coneshaped entrie 25x3 mm	25	21.5	18	5	3.2	13	5-18	PG 9-11	**NSYECPC3**
PVC adjustable coneshaped entrie 32x3 mm	33	29.5	26	5	3.2	20	5-26	PG 9-16	**NSYECPC5**
PVC adjustable coneshaped entrie 43x3 mm	43	38.5	36	5	3.2	22	5-36	PG 9-21	**NSYECPC6**
PVC adjustable coneshaped entrie 70x3 mm	70	63	60	28	3	20	28-60	PG 21-48	**NSYECPC9**
PVC adjustable coneshaped entrie 98x3 mm	98	90	87	28	3	23	28-87	PG 21-48	**NSYECPC15**

Simple-3

- Quick cable entries for enclosure thickness 10/10e - 40/10e mm (5/10e - 20/10e mm for ref. **IMT36179**).
- Material: EPDM plastic
- Colour: Grey cable entries: NCS 5500; Black cable entries: NCS 9000
- Cable entry material: Combined
- Cable glands to be fitted: Not applicable
- Installation possibilities: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP67 according to IEC 60529
- Cable retention: Medium
- Cable diameter (mm): From 12 to 50
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No3
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 12.5 to 50.7
- Flame resistance: 750°C



Supply:
50 (M12 to M32)
25 (M40 and M50)


IMT36179

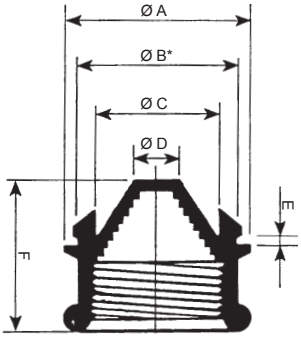
Characteristics	Dimensions			References
	ISO	Drill hole (Ø mm)	Cable (Ø mm)	
Quick cable entries	M12	12.5	3 - 5	**IMT36179**
Quick cable entries	M16	16	5 - 7	**IMT36180**
Quick cable entries	M20	20.3	7 - 10	**IMT36181**
Quick cable entries	M25	25.3	10 - 14	**IMT36182**
Quick cable entries	M32	32.4	14 - 20	**IMT36183**
Quick cable entries	M40	40.7	20 - 26	**IMT36184**
Quick cable entries	M50	50.7	26 - 35	**IMT36185**

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Insulating industrial boxes

PVC adjustable cone-shaped entries

- PVC adjustable coneshaped entries for PG tubes or for enclosure thickness 12/10e - 15/10e mm.
- Material: PVC
- Colour: Black
- Cable entry material: Combined
- Cable glands to be fitted: Not applicable
- Installation possibilities: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP55 according to IEC 60529
- Cable retention: Low
- Cable diameter (mm): From 16 to 44
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 25 to 52



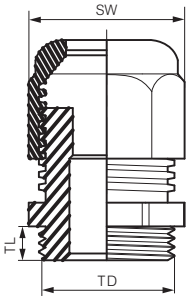
Supply:
25 cable entries


NSYEC7

Characteristics	Dimensions (mm)						Capacity		References
	Ø A	Ø B	Ø C	Ø D	E	F	Cable (Ø mm)	Tube	
PVC adjustable cone-shaped entries	52	48.5	44	13	1.5	30	13 to 44	PG 36	**NSYEC7**

Simple-5

- Presse-étoupe ISO
- Material: PA6 Polyamide, neoprene gasket
- Colour: RAL 7035 grey
- Cable entry material: Combined
- Installation possibilities: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP68
- Cable retention: High
- Cable diameter (mm): From 12 to 40
- Cable Installation time: Slow
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 15 to 46
- Certificates: Glow wire resistance: 960°C
- Standard: Compliance with VDE, UL and CSA
- Flame resistance: 750 °C



Supply:
The cable glands are supplied with nuts Pack of 20 (M12 to M20), of 10 (M25 and M32), of 5 (M40)


ISM71503

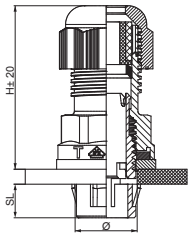
Characteristics	Dimensions					References
	Cable (Ø mm)	Drill hole (Ø mm)	TD	TL	SW	
Cable gland M12, RAL 7035	3 / 6.5	12.2 (0 + 0.2)	12	6	15	**ISM71501**
Cable gland M16, RAL 7035	4 / 8	16.2 (0 + 0.2)	16	8	19	**ISM71502**
Cable gland M20, RAL 7035	6 / 12	20.2 (0 + 0.2)	20	10	24	**ISM71503**
Safety Cable gland M20, RAL 3000	6 / 12	20.2 (0 + 0.2)	20	10	24	**IMT36150**
Cable gland M25, RAL 7035	11 / 17	25.2 (0 + 0.2)	25	8	29	**ISM71504**
Cable gland M32, RAL 7035	15 / 21	32.2 (0 + 0.3)	32	10	36	**ISM71505**
Cable gland M40, RAL 7035	19 / 28	40.5 (0 + 0.3)	40	10	46	**ISM71506**

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Insulating industrial boxes

Synthetic snap in cable gland

- Without thread.
- Easy assembly and disassembly.
- Suitable for walls from 0.5 to 4 mm thick.
- Material: PA6 Polyamide, neoprene gasket
- Colour: RAL 7035 grey, RAL 7001, RAL 9005. Other colours on demand
- Cable entry material: Non armoured
- Installation possibilities: On cable gland plate or directly on enclosure
- Flexibility of the installation: Low
- Reversibility: Medium
- Ingress protection rating: IP66
- Cable retention: High
- Cable diameter (mm): From 16 to 40
- Cable Installation time: Slow
- Quantity of cables to be fitted for a given surface: +
- Cable entries for cables with connectors: No
- Thread type: Metric EN 60423 Other types are available on demand
- Cut-out dimensions (mm): Various circular hole diameters according to cable diameter
- External dimensions (mm): From Ø 22 to 46
- Certificates: UL 94 V-2 (except for the size M40)
- Standard: DIN EN 62444, UL 514B, UL 514B§8.26.7
- Temperature range: -20°C to + 100°C



Supply:
The cable glands are supplied with nuts Pack of 20 (M16 and M20), of 10 (M25 and M32), of 5 (M40)


NSYCGSP16

Characteristics	Dimensions (mm)							References	
	Ø	Ø min / max	Drill Ø	SL	SD	H			
Synthetic snap in cable gland	M16	5/10	16.2 to 16.4	9	15.9	42.5	22	**NSYCGSP16**	New
Synthetic snap in cable gland	M20	6/12	20.2 to 20.4	9	19.9	41.5	24	**NSYCGSP20**	New
Synthetic snap in cable gland	M25	11/17	25.2 to 25.4	9	24.9	43.5	29	**NSYCGSP25**	New
Synthetic snap in cable gland	M32	15/21	32.2 to 32.4	9	31.9	49.5	36	**NSYCGSP32**	New
Synthetic snap in cable gland	M40	19/28	40.2 to 40.4	11.5	39.9	56	46	**NSYCGSP40**	New

Snap in cable gland disassembling tool

- Material: Plastic


NSYDT16


NSYDT20

Characteristics	Ø	References	
Tool to quickly disassemble cable gland	M16	**NSYDT16**	New
Tool to quickly disassemble cable gland	M20	**NSYDT20**	New
Tool to quickly disassemble cable gland	M25	**NSYDT25**	New
Tool to quickly disassemble cable gland	M32	**NSYDT32**	New
Tool to quickly disassemble cable gland	M40	**NSYDT40**	New

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PLS boxes: Polyester rear and PC transparent cover with wing screws for manual opening.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

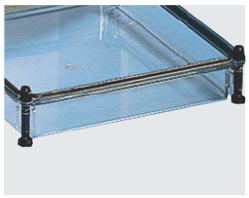
Painting

Machining





Green Premium™



Protection

IP66.
Gasket between body and cover.
IK09.
Insulation Class II.

Modular

The dimensions of the sides, multiples of 9 cm, allow the creation of assemblies.



Easy

Bosses with inserts, at the rear of the body, for fixing plates or various supports.

See page 522 for details or consult our web site www.se.com

Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure.
Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use painted enclosures available through the P&S offer.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulating modular boxes

According to Reach and RoHs & Halogen free

Class II

Characteristics	Complete box NSYPLS5454AG	NSYPLS1827G	NSYPLSC5472AG	NSYPLSC1827G	NSYPLSP1827G
					
	• Insulating boxes that can be coupled by all their side surfaces, allowing the creation of the greatest variety of modular assemblies. • The product references show the two lateral dimensions in cm. • 14 sizes of insulating boxes; The sides are multiples of 9 cm. • Body made from polyester reinforced with fibreglass, moulded by hot compression, 9 sizes. • 3 types of cover available according to the sizes: • standard cover, made from transparent polycarbonate with neoprene gasket, 45 mm high, or 95 mm high (final index A) according to the sizes, • opaque polycarbonate cover (index C), with neoprene gasket, 45 mm high, or 95 mm high (final index A) according to the sizes, • polyester reinforced with fiberglass cover (index P) with PUR gasket, 45 mm high. • Complete box includes body, cover, locking screws and sealing device. • The bodies (prefix F) and the covers (prefix T) are supplied separately as standard references. The separate covers are supplied without locking screws or sealing accessories. • The PLS enclosures with transparent cover are also offered in batches; The reference refers to the complete batch. • Excellent resistance to corrosion; Can withstand most chemical agents. • Full insulation to create class II assemblies. • Standard lock with slot screws outside the volume of the boxes. Delivered with sealing system. • External wall-mounting by 4 lugs, to be ordered separately. • Service temperature: -40 to +80°C. • Bosses with M6 inserts for fixing the mounting plate. • Halogen-free and compliant with the RoHS directive.				
Colour	RAL 7035 grey (opaque bodies and cover)				
Ingress protection rating	IP66				
Mechanical protection rating	IK09				
Certifications	• Certification according to standard IEC 62208, helping guarantee IP, IK, resistance to heat and fire (self-extinguishing), insulation to 5000 V, and load of the mounting plate, 100 kg/m² • UL508A* CAN/CSA-C22.2 - Types 1, 2, 3, 3R, 3S, 4, 4X, 12 and 13				
Installation	Outdoor installation: Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure and help protect against the sun radiation.				
Options	-				
Supply	-				

* **NSYPLS**, **NSYPLSP** and **NSYPLSC** followed by suffixes.

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	Insulating modular boxes with modular distribution chassis	Modular distribution chassis
	NSYDLS12	**NSYPLS1827DLS12**
	PLS boxes, polyester body and PC transparent cover with hinges and wing screws for manual opening. Built-in DLS modular chassis, made up of an insulating protection panel, RAL 7011 colour, 35 mm DIN rails and a 2 x 16 + 5 x 6 mm² neutral/earth connection strip. • Opening for cable entry, delivered with lock plate, ref. **NSYTL27270G**. • Double-insulating installation. • Plastic external hinges, allowing opening to 180°. • Removable 36 mm blanking covers (2 modules): 1 per row in the standard offer.	Built-in DLS modular chassis, made up of an insulating protection panel, RAL 7011 colour, 35 mm DIN rails and a 2 x 16 + 5 x 6 mm² neutral/earth connection strip.
	-	-
	IP43	IP43
	IK09	IK09
	-	-
	Indoor	Indoor
	The boxes can be equipped with a double bar lock and handle ref. **NSYCL27M**, or a lock with key ref. **NSYCL27L405**, by specific demand	-
	The modular chassis can be ordered separately	-

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Insulating modular boxes

			Complete box		
					
Dimensions			Transparent cover	Opaque cover	Polyester cover
Height (mm)	Width (mm)	Depth (mm)	References	References	References
180	270	180	**NSYPLS1827G**	**NSYPLSC1827G**	**NSYPLSP1827G**
270	270	180	**NSYPLS2727G**	**NSYPLSC2727G**	**NSYPLSP2727G**
270	270	230	**NSYPLS2727AG**	**NSYPLSC2727AG**	-
270	360	180	**NSYPLS2736G**	**NSYPLSC2736G**	**NSYPLSP2736G**
270	360	230	**NSYPLS2736AG**	**NSYPLSC2736AG**	-
270	540	180	**NSYPLS2754G**	**NSYPLSC2754G**	**NSYPLSP2754G**
270	540	230	**NSYPLS2754AG**	**NSYPLSC2754AG**	-
360	270	180	-	-	-
360	360	180	**NSYPLS3636G**	**NSYPLSC3636G**	**NSYPLSP3636G**
360	540	180	**NSYPLS3654G**	**NSYPLSC3654G**	**NSYPLSP3654G**
360	540	230	**NSYPLS3654AG**	**NSYPLSC3654AG**	-
360	720	230	**NSYPLS3672AG**	**NSYPLSC3672AG**	-
540	270	180	-	-	-
540	540	180	**NSYPLS5454G**	**NSYPLSC5454G**	**NSYPLSP5454G**
540	540	230	**NSYPLS5454AG**	**NSYPLSC5454AG**	-
540	720	230	**NSYPLS5472AG**	**NSYPLSC5472AG**	-

7

			Rear	Low covers: 45 mm		
						
Dimensions			Rear 135 mm	Transparent	Opaque	Polyester
Height (mm)	Width (mm)	Depth (mm)	References	References	References	References
180	270	180	**NSYFPLS1827G**	**NSYTPLS1827**	**NSYTPLSC1827G**	**NSYTPLSP1827G**
270	270	180	**NSYFPLS2727G**	**NSYTPLS2727**	**NSYTPLSC2727G**	**NSYTPLSP2727G**
270	270	230	**NSYFPLS2727G**	-	-	-
270	360	180	**NSYFPLS2736G**	**NSYTPLS2736**	**NSYTPLSC2736G**	**NSYTPLSP2736G**
270	360	230	**NSYFPLS2736G**	-	-	-
270	540	180	**NSYFPLS2754G**	**NSYTPLS2754**	**NSYTPLSC2754G**	**NSYTPLSP2754G**
270	540	230	**NSYFPLS2754G**	-	-	-
360	360	180	**NSYFPLS3636G**	**NSYTPLS3636**	**NSYTPLSC3636G**	**NSYTPLSP3636G**
360	540	180	**NSYFPLS3654G**	**NSYTPLS3654**	**NSYTPLSC3654G**	**NSYTPLSP3654G**
360	540	230	**NSYFPLS3654G**	-	-	-
360	720	230	**NSYFPLS3672G**	-	-	-
540	540	180	**NSYFPLS5454G**	**NSYTPLS5454**	**NSYTPLSC5454G**	**NSYTPLSP5454G**
540	540	230	**NSYFPLS5454G**	-	-	-
540	720	230	**NSYFPLS5472G**	-	-	-

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	Insulating modular boxes with modular distribution chassis				Modular distribution chassis
					
	No. of 18 mm modules	No. of rows	Approximate weight (kg)	References	References
	12	1	1.7	**NSYPLS1827DLS12**	**NSYDLS12**
	24	2	2.5	**NSYPLS2727DLS24**	**NSYDLS24**
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	24	2	2.7	**NSYPLS3627DLS24**	**NSYDLS242**
	36	3	2.8	**NSYPLS3627DLS36**	**NSYDLS36**
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	4	3.8	**NSYPLS5427DLS48**	-
	48	-	-	-	**NSYDLS48**
	-	-	-	-	-
	-	-	-	-	-

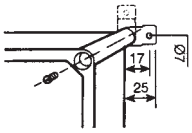
	High covers: 95 mm		Metallic mounting plates		Insulating mounting plates	
						
	Transparent	Opaque	Plain	Telequick	Polyester	Bakelite
	References	References	References	References	References	References
	-	-	**NSYPMM1827**	**NSYPMR1827**	**NSYPMA1827G**	**NSYPMB1827**
	-	-	**NSYPMM2727**	**NSYPMR2727**	**NSYPMA2727G**	**NSYPMB2727**
	NSYTPLS2727A	**NSYTPLSC2727AG**	**NSYPMM2727**	**NSYPMR2727**	**NSYPMA2727G**	**NSYPMB2727**
	-	-	**NSYPMM2736**	**NSYPMR2736**	**NSYPMA2736G**	**NSYPMB2736**
	NSYTPLS2736A	**NSYTPLSC2736AG**	**NSYPMM2736**	**NSYPMR2736**	**NSYPMA2736G**	**NSYPMB2736**
	-	-	**NSYPMM2754**	**NSYPMR2754**	**NSYPMA2754G**	**NSYPMB2754**
	NSYTPLS2754A	**NSYTPLSC2754AG**	**NSYPMM2754**	**NSYPMR2754**	**NSYPMA2754G**	**NSYPMB2754**
	-	-	**NSYPMM3636**	-	**NSYPMA3636G**	**NSYPMB3636**
	-	-	**NSYPMM3654**	**NSYPMR3654**	**NSYPMA3654G**	**NSYPMB3654**
	NSYTPLS3654A	**NSYTPLSC3654AG**	**NSYPMM3654**	**NSYPMR3654**	**NSYPMA3654G**	**NSYPMB3654**
	NSYTPLS3672A	**NSYTPLSC3672AG**	**NSYPMM3672**	**NSYPMR3672**	**NSYPMA3672G**	**NSYPMB3636**
	-	-	**NSYPMM5454**	**NSYPMR5454**	**NSYPMA5454G**	**NSYPMB3654**
	NSYTPLS5454A	**NSYTPLSC5454AG**	**NSYPMM5454**	**NSYPMR5454**	**NSYPMA5454G**	**NSYPMB3654**
	NSYTPLS5472A	**NSYTPLSC5472AG**	**NSYPMM5472**	**NSYPMR5472**	**NSYPMA5472G**	**NSYPMB5472**

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Insulating modular boxes

Wall fixing lugs


NSYPF27N




NSYPF27X

- Passivated zinc-coated steel
- Stainless steel

Supply:
Set of 4 lugs and fixings

Characteristics	References
Wall fixing lug, passivated zinc-coated steel	**NSYPF27N**
Wall fixing lug, stainless steel	**NSYPF27X**

Post fixing device

Supply:
Contains all the elements required for mounting on a post

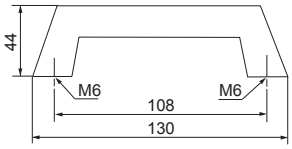

NSYFSP27270

Characteristics	Max. length of enclosure rear side (mm)	References
Post fixing device	270	**NSYFSP27270**
Post fixing device	360	**NSYFSP27360**
Post fixing devicec	540	**NSYFSP27540**

Plastic carrying handle


NSYATM27

- Material: Plastic
- Ingress protection rating: IP43



Characteristics	References
Plastic carrying handle	**NSYATM27**

7

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Life Is On Schneider Electric

Insulating modular boxes

Coupling frames



NSYUM27180

- Ingress protection rating: Frame with full opening: IP65 between enclosures

Comment:
Use the boxes dimensional drawings to identify what coupling frame you need. Consider the sides and surfaces you will join. Not UL certified.

Characteristics	For surfaces (mm)	Opening (mm)	References
Full-opening frame	180	110	**NSYUM27180**
Full-opening frame	270	200	**NSYUM27270**
Full-opening frame	360	290	**NSYUM27360**



NSYUCC270

- Ingress protection rating: Frame with full opening: IP44 between enclosures

Comment:
Use the boxes dimensional drawings to identify what coupling frame you need. Consider the sides and surfaces you will join. Not UL certified.

Supply:
References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

Characteristics	For surfaces (mm)	Opening (mm)	References
Partial-opening frame	270	200	**NSYUCC270**
Partial-opening frame	360	290	**NSYUCC360**

Side plates



NSYTL27270G

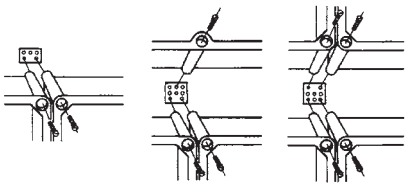
- Ingress protection rating: IP65

Characteristics	For surfaces (mm)	Width (mm)	References
Side plate	270	200	**NSYTL27270G**
Side plate	360	290	**NSYTL27360G**

Box coupling unit piece



NSYPS2C27



- For coupling 2, 3 or 4 boxes, with optional wallmounting.
- M6 x 8 mm screw with cylindrical head.

Supply:
To be ordered in multiples of 25

Characteristics	References
Box coupling unit piece for coupling 2 boxes	**NSYPS2C27**
Box coupling unit piece for coupling 3 or 4 boxes	**NSYPS4C27**

7

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Insulating modular boxes

Closing for PLS boxes

- Slotted screw: Included in the standard references of boxes **NSYPLS●●●**.
- Wing screw: Included in the standard references of modular distribution boxes **NSYPLS●●●DLS●●●**.
- Triangular screw: **NSYLT27**

Supply:
Set of 4, 6 or 8 screws.
The references also include 4 M6 screws for fixing mounting plates and 2 steel sealing accessories


NSYTCD274


NSYTCM274


NSYTCT274

Characteristics	Tool	References
Set of 4 slotted screws	Flat-blade screwdriver	**NSYTCD274**
Set of 6 slotted screws	Flat-blade screwdriver	**NSYTCD276**
Set of 8 slotted screws	Flat-blade screwdriver	**NSYTCD278**
Set of 4 wing screws	Manual	**NSYTCM274**
Set of 4 triangular screws	Triangular key	**NSYTCT274**

Closing locks

- Option of installing a side lock, on the opposite side to where the hinges are installed
- Ingress protection rating: IP43


NSYCL27M


NSYCL27L405

Characteristics	Tool	References
Double bar side lock and handle	NSYDBP	**NSYCL27M**
Side lock with key 405	Key 405	**NSYCL27L405**

Sealing and opening


NSYLT27

Characteristics	References
Triangular key for PLS	**NSYLT27**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulating modular boxes

External hinges



NSYBE27G

Comment:
IP level cannot be guaranteed due to type of application and installation

- To open the door to 180°.
- Material: Plastic

Supply:
Set of 2 hinges

Characteristics	References
External hinges, plastic	**NSYBE27G**

Internal hinges

Comment:
IP level cannot be guaranteed due to type of application and installation



NSYBL27

- To open the door to 180°.
- Material: Brass

Supply:
Set of 2 hinges

Characteristics	References
Internal hinges, brass	**NSYBL27**

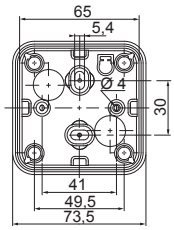
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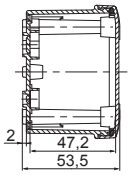
Insulating industrial boxes

Box of 74 x 74 x 54 mm (external dimensions) **NSYTB●●●775**

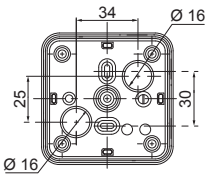
Interior



Side

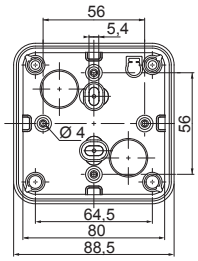


Rear

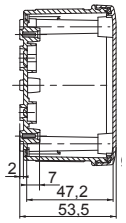


Box of 89 x 89 x 54 mm (external dimensions) **NSYTB●●●885**

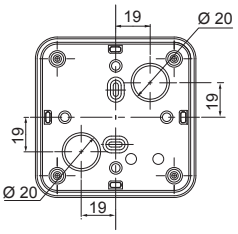
Interior



Side

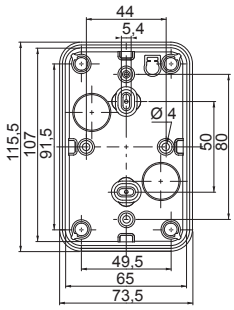


Rear

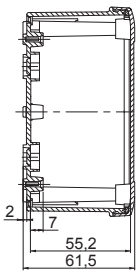


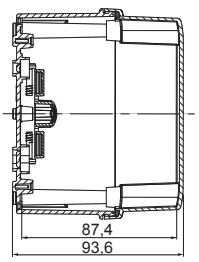
Box of 116 x 74 x 62 or 94 mm (external dimensions) **NSYTB●●●1176** or **NSYTB●●●1179**

Interior

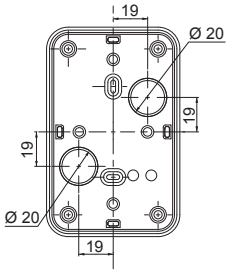


Side



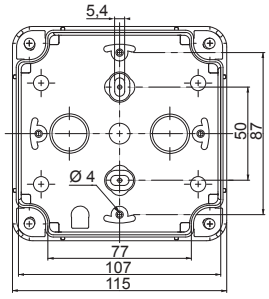


Rear

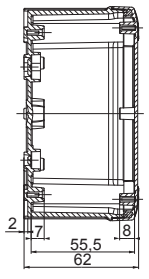


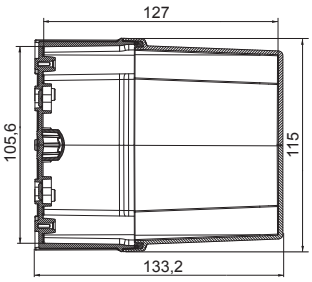
Box of 116 x 116 x 62 or 133 mm (external dimensions) **NSYTB●●●11116** or **NSYTB●●●111113**

Interior

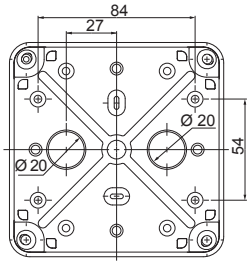


Side

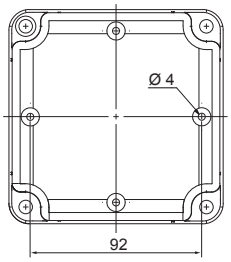




Rear

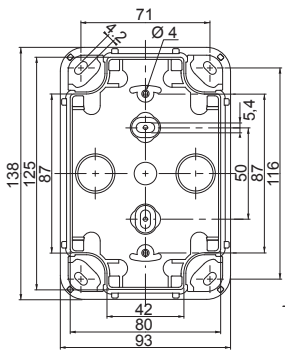


Cover

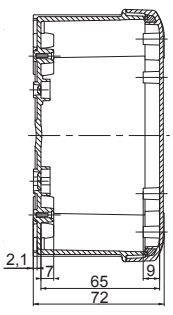


Box of 138 x 93 x 72 mm (external dimensions) **NSYTB●●●1397**

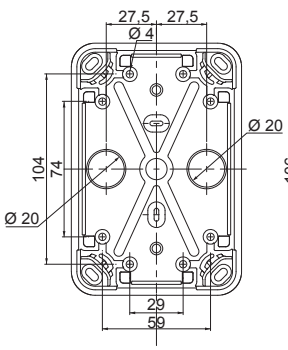
Interior



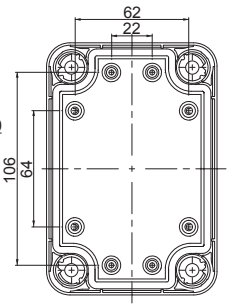
Side



Rear



Cover



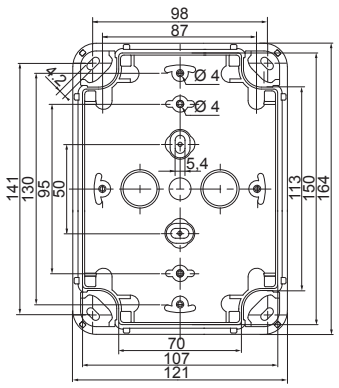
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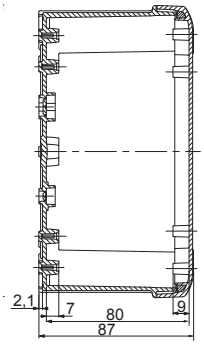
Insulating industrial boxes

Box of 164 x 121 x 87 mm (external dimensions) **NSYTB●●●16128**

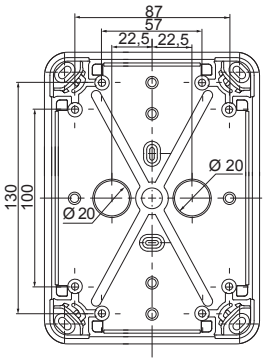
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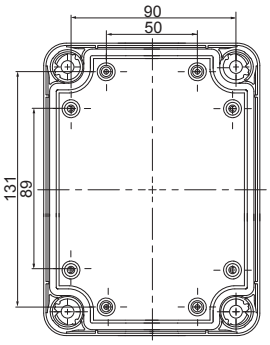
Side



Rear

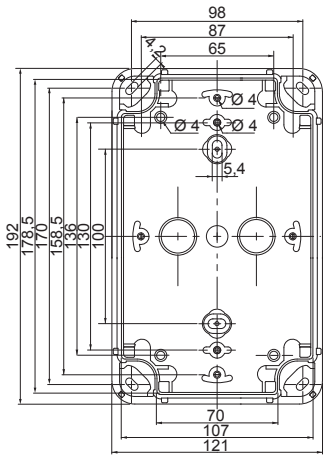


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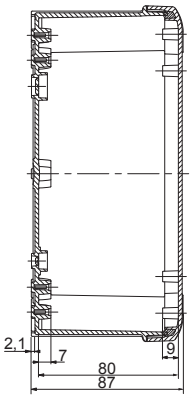


Box of 192 x 121 x 87 or 105 mm (external dimensions) **NSYTB●●●19128** or **NSYTB●●●191210**

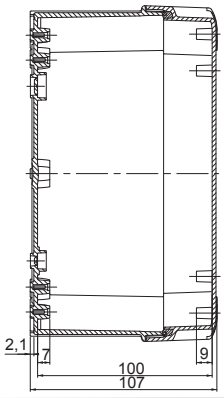
Interior



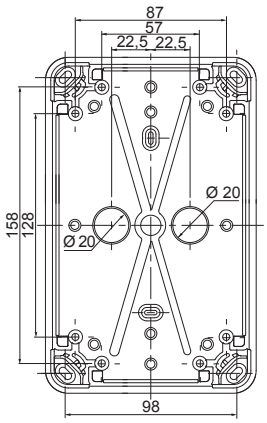
Side
Height 80 mm
(60 + 20 mm)



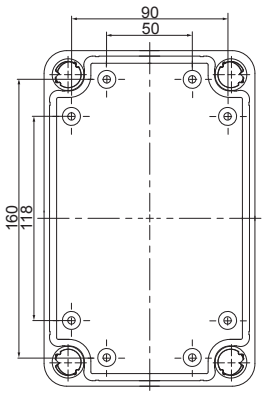
Side
Height 100 mm
(60 + 40 mm)



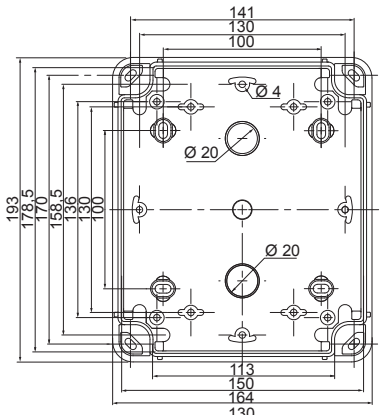
Rear

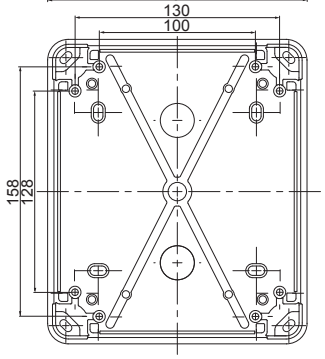


Cover

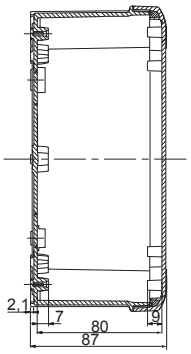


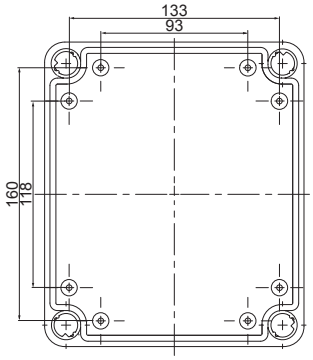
Box of 192 x 164 x 87 or 105 mm (external dimensions) **NSYTB●●●19168** or **NSYTB●●●191610**



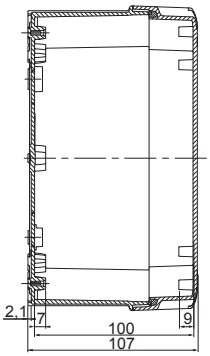


Height 80 mm
(60 + 20 mm)





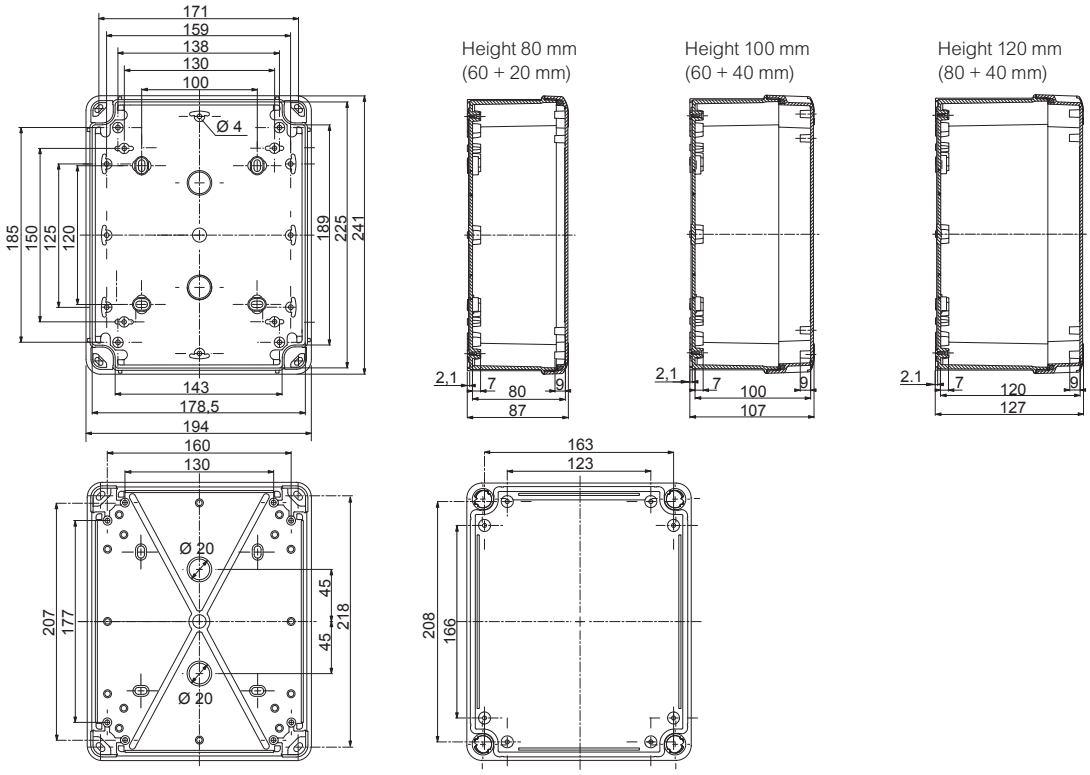
Height 100 mm
(60 + 40 mm)



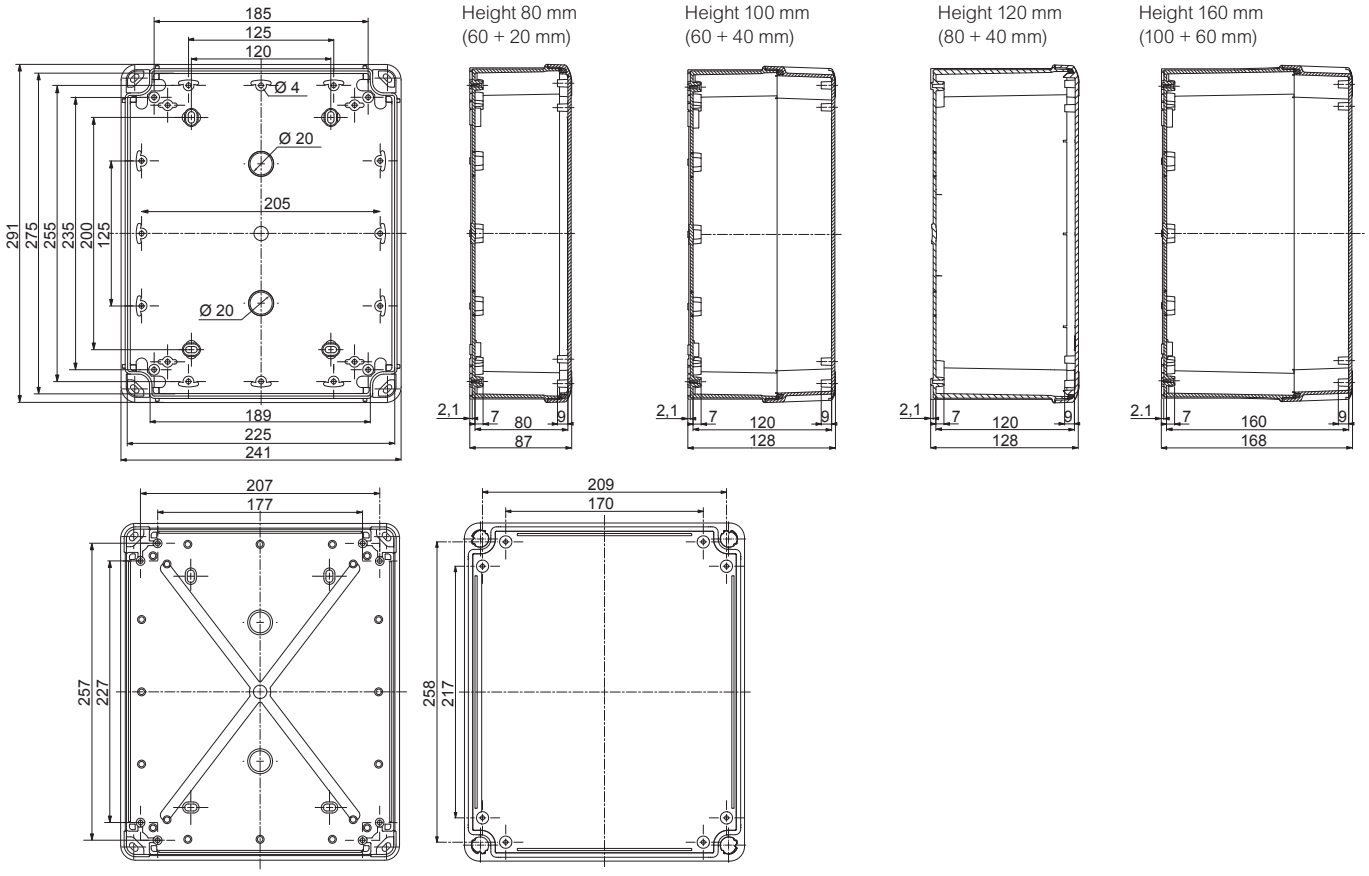
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Insulating industrial boxes

Box of 241 x 194 x 87, 107 or 127 mm (external dimensions)
NSYTB●●●24198, **NSYTB●●●241910** or **NSYTB●●●241912**



Box of 291 x 241 x 88, 128 or 168 mm (external dimensions)
NSYTB●●●29248, **NSYTB●●●292412** or **NSYTB●●●292416**

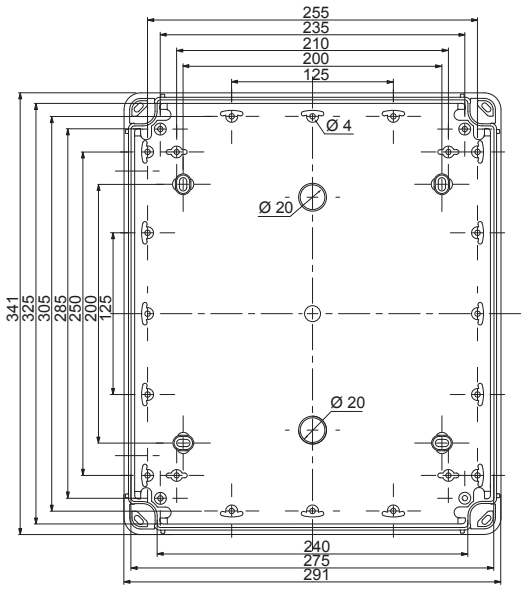


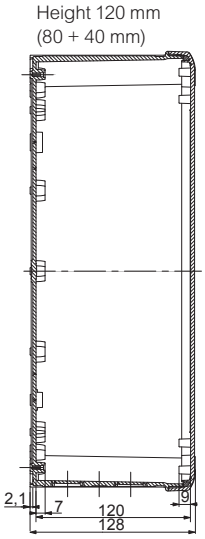
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

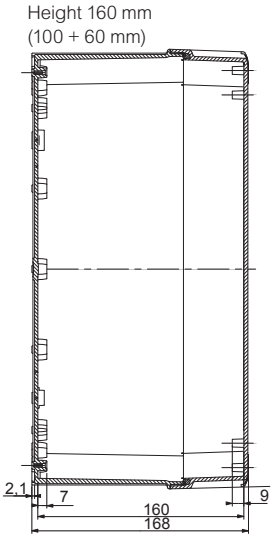
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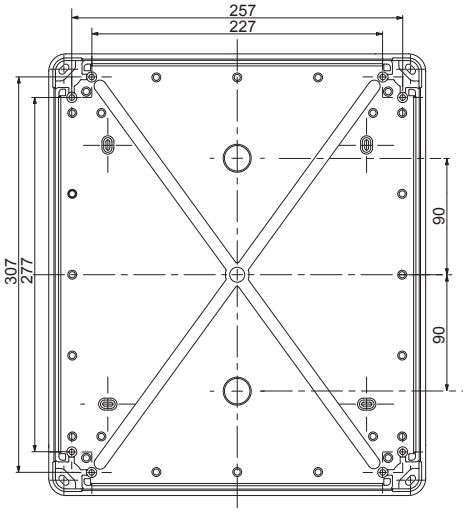
Insulating industrial boxes

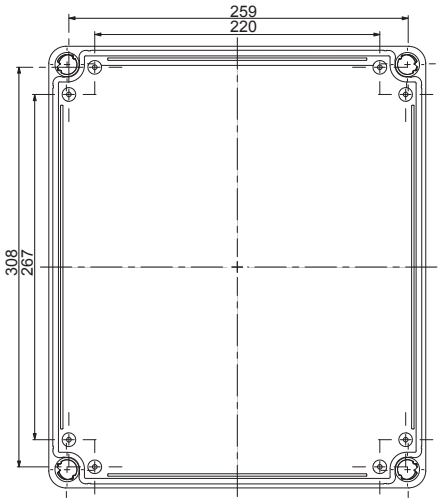
Box of 341 x 291 x 128 or 168 mm (external dimensions)
NSYTB●●●342912 or **NSYTB●●●342916**











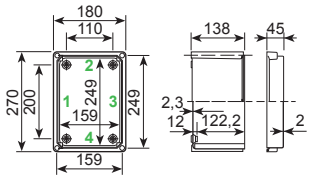
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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

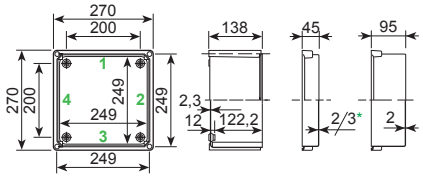
Insulating industrial boxes

The surfaces are numbered to enable identification of the surfaces to be drilled in the customised offer.

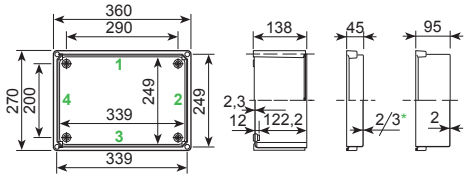
NSYPLS●●●1827G



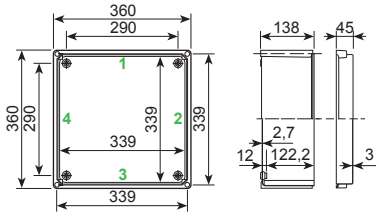
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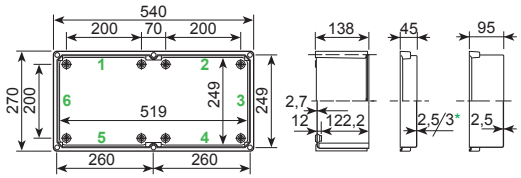
NSYPLS●●●2736●G



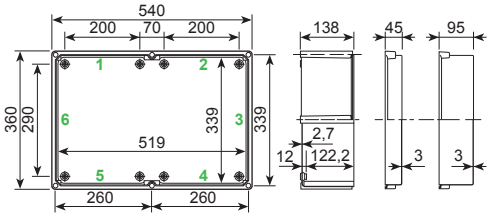
NSYPLS●●●3636G



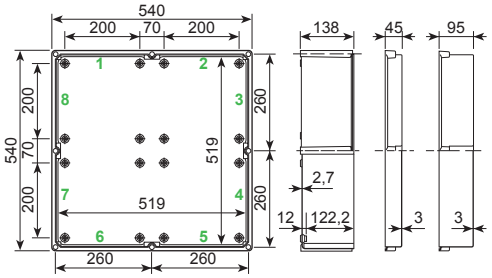
NSYPLS●●●2754●G



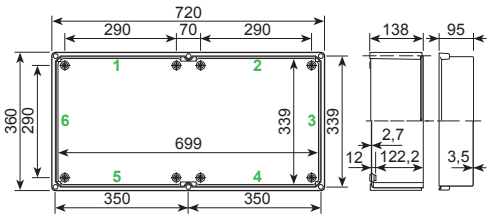
NSYPLS●●●3654●G



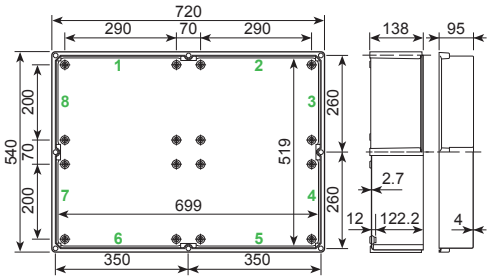
NSYPLS●●●5454●G



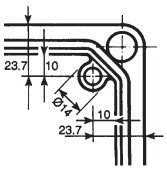
NSYPLS●●●3672●G



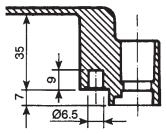
NSYPLS●●●5472●G



A



B

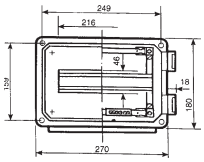


A - B: Internal view of the corners of the polyester covers with bosses for inserts
ref. **NSYTEX5** for M5 screws.

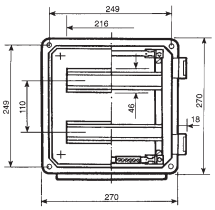
* Thickness of 30/10e mm for the polyester cover.

Insulating modular boxes with modular distribution chassis

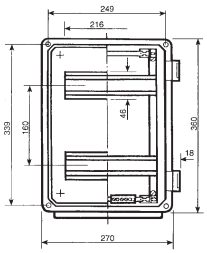
NSYPLS1827DLS12



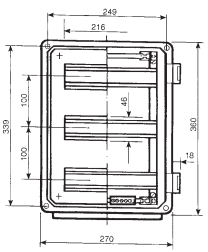
NSYPLS2727DLS24



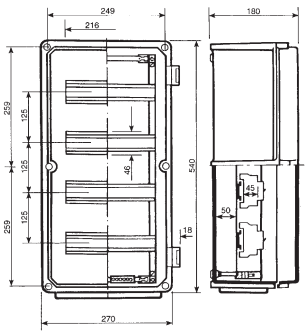
NSYPLS3627DLS24



NSYPLS3627DLS36



NSYPLS5427DLS48



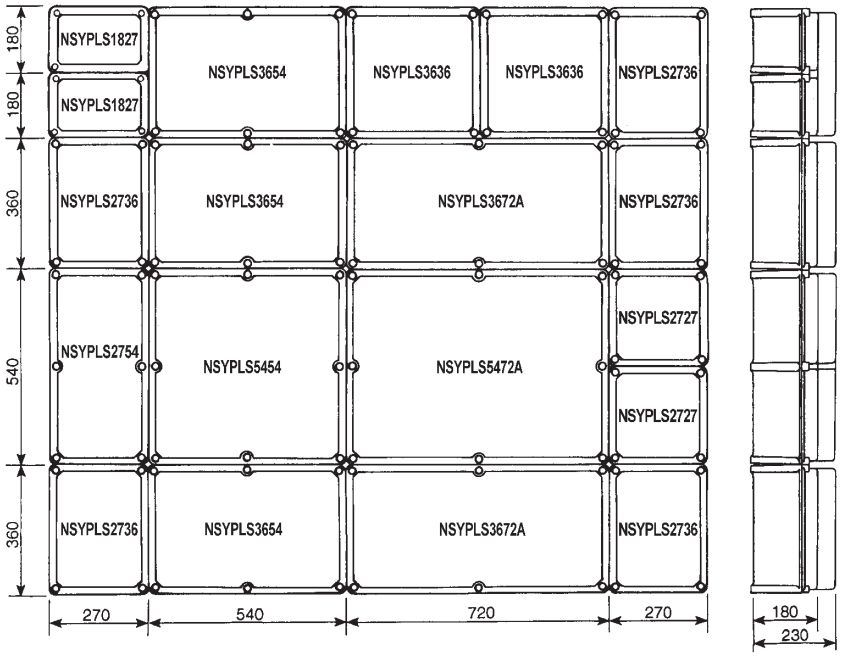
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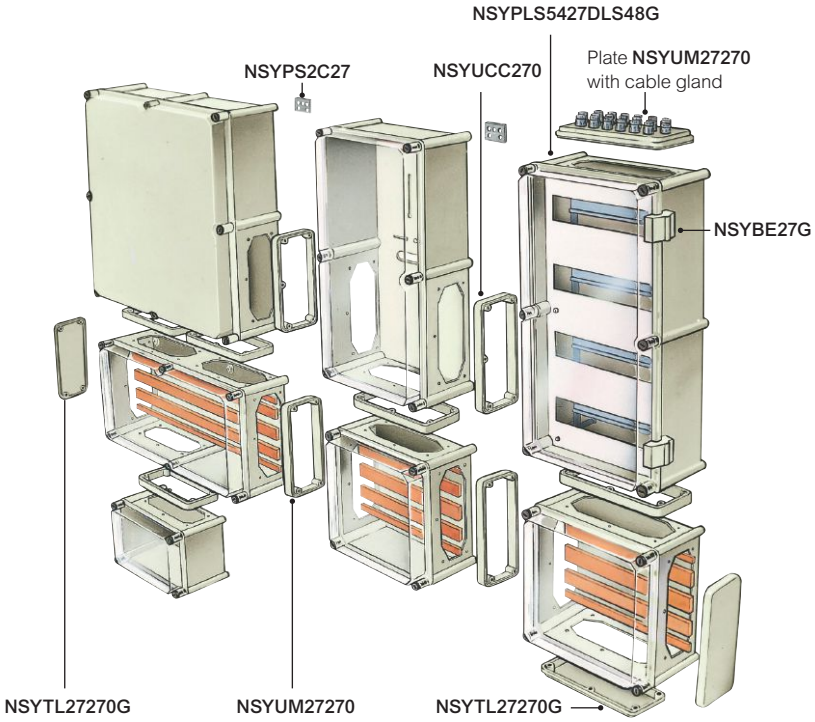
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Insulating industrial boxes

Examples of assembly

All the boxes can be joined by their lateral surfaces, using the coupling frames **NSYUM●●●** or **NSYUCC●●●**, and the joining and fixing pieces **NSYPS2C27** and **NSYPS4C27**.





7

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Polyester wall-mounting enclosures





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Insulating wall-mounting enclosures

Thalassa PLM

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Specific accessories	181
Dimensions	192

Insulating wall-mounting enclosures

Monobloc wall-mounting enclosure, made of polyester reinforced with fibreglass, moulded by hot compression. Degree of protection IP66, Impact resistance IK10 for the plain doors and surfaces and IK08 for the glazed doors of the polyester versions, UL certification and NEMA classification 4x and 13 for the polyester wall-mounting enclosures, Total insulation to produce class II units, Complies with RoHS and REACH Directives

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining



Green Premium™



Easy

- Door easily reversible by turning it over.
- Opening to 120° or 180°.
- Easy machining with no corrosion.
- Lightness.
- Polyamide hinge pin, easily removable and captive.



Service life

- High resistance to corrosion in harsh environments, maintaining its mechanical properties and insulation.



Smart

- Notches for easy fixing of DIN rails.
- Grid pattern on the rear of the door for marking the machining operations.

See page 522 for details or consult our web site www.se.com

Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use painted enclosures available through the P&S offer.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

According to Reach and RoHs & Halogen free







Class II

Characteristics	ABS/PC wall-mounting enclosures	Polyester wall-mounting enclosures	
	• Monobloc wall-mounting enclosure. • Version with transparent polycarbonate door. • Closes with a 3 mm double bar lock. • Door opening: 180°.	• Monobloc wall-mounting enclosure. • Version with transparent tempered-glass door. • Closes with one 3 mm double bar lock. • Door opening angle: 120°. • Grid pattern with a pitch of 50 mm on the back of the door.	• Monobloc wall-mounting enclosure. • Version with transparent tempered-glass door. • Locking device outside the sealed area, helping guarantee the tightness of IP66 over time. • Locking system: enclosure height ≤ 847 mm: 2 locks with double bar insert or 1 handle with key lock and 3-point closure, • enclosure height 1056 mm: 1 lock with double bar insert and 4-point closure. • Door opening angle: 180°. • Bosses for accessory-fixing inserts: M6 inside the enclosure, M5 in the door for enclosure heights of 430 and 530 mm, M6 in the door for enclosure heights ≥ 647 mm. • Grid pattern with a pitch of 25 mm on the back of the door.
Material	ABS/PC	Polyester reinforced with fibreglass, moulded by hot compression	
Temperature range - Gasket	-40°C to +80°C		
Colour	RAL 7035 grey		
Ingress protection rating	IP66 according to IEC 60529		
Mechanical protection rating	• IK10 plain door • IK08 glazed door		
Certifications (see page 614)	• IEC 62208 • Bureau Veritas Marine	• IEC 62208 • Marine • UL 508A - NEMA type: 1, 2, 3, 3R, 3S, 4, 4X, 5, 12 and 13	• IEC 62208 • Marine
Installation	• Direct fixing of symmetrical rails ref. **NSYCS200PLM** with plastic nuts ref. **NSYTCSPLM**, to be installed in the notches on the rear of the body, with a pitch of 25 mm • Fixing of installation plates on the studs at the rear of the enclosure	• Fixing of rear accessories on 4 M8 x 18 studs	• Fixing of rear accessories on 4 M8 studs, included in the standard supply • Direct fixing of symmetrical rails ref. **NSYCS●●●PLM**, with plastic nuts, ref. **NSYTCSPLM**, to be installed in the notches on the rear of the body, with a pitch of 25 mm

External dimensions			References of wall-mounting enclosures with door							
Height (mm)	Width (mm)	Depth (mm)	Plain (3)	Transparent (4)	Plain (3)	Transparent (4)	Plain (3)	Transparent (4)	Plain (1)	Transparent (1) (4)
308	255	160	-	-	**NSYPLM3025G**	**NSYPLM3025TG**	-	-	-	-
310	215	160	**NSYPLM32G**	**NSYPLM32TG**	-	-	-	-	-	-
430	330	200	-	-	-	-	**NSYPLM43G**	**NSYPLM43TG**	**NSYPLM43VG**	**NSYPLM43TVG**
530	430	200	-	-	-	-	**NSYPLM54G**	**NSYPLM54TG**	**NSYPLM54VG**	**NSYPLM54TVG**
647	436	250	-	-	-	-	**NSYPLM64G**	**NSYPLM64TG**	**NSYPLM64VG**	**NSYPLM64TVG**
747	536	300	-	-	-	-	**NSYPLM75G**	**NSYPLM75TG**	**NSYPLM75VG**	**NSYPLM75TVG**
847	636	300	-	-	-	-	**NSYPLM86G**	**NSYPLM86TG**	**NSYPLM86VG**	**NSYPLM86TVG**
1056	852	350	-	-	-	-	**NSYPLM108G** (2)	**NSYPLM108TG** (2)	-	-

(1) Wall-mounting enclosure with handle and lock with 3-point closure and key 1242 E delivered as standard.
(2) Wall-mounting enclosure with standard 5 mm double bar lock and lock with 4-point closure.
(3) These enclosures are also available equipped with metallic or insulating mounting plates.
(4) Must be protected against sun radiation.

Comment:
For air shipments of **NSYPLM108G**, the reference **NSYPLMRS108GA** must be ordered

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulating wall-mounting enclosures

Comment:
Dimensions, see page 192

ABS/PC wall-mounting enclosures with door			Polyester wall-mounting enclosures with door	
				
Plain (3)	Transparent (4)		Plain (3)	Transparent (4)
References	References		References	References
NSYPLM32G	**NSYPLM32TG**		**-**	**-**
-	-		**NSYPLM3025G**	**NSYPLM3025TG**

External dimensions		
Height (mm)	Width (mm)	Depth (mm)
310	215	160
308	255	160

Comment:
Dimensions, see page 192

Polyester wall-mounting enclosures with door					
	 NSYPLM108G		 NSYPLM108TG		
Plain (3)		Transparent (4)		Plain (1)	Transparent (1) (4)
References		References		References	References
NSYPLM43G		**NSYPLM43TG**		**NSYPLM43VG**	**NSYPLM43TVG**
NSYPLM54G		**NSYPLM54TG**		**NSYPLM54VG**	**NSYPLM54TVG**
NSYPLM64G		**NSYPLM64TG**		**NSYPLM64VG**	**NSYPLM64TVG**
NSYPLM75G		**NSYPLM75TG**		**NSYPLM75VG**	**NSYPLM75TVG**
NSYPLM86G		**NSYPLM86TG**		**NSYPLM86VG**	**NSYPLM86TVG**
NSYPLM108G (2)		**NSYPLM108TG** (2)		-	-

External dimensions		
Height (mm)	Width (mm)	Depth (mm)
430	330	200
530	430	200
647	436	250
747	536	300
847	636	300
1056	852	350

(1) Wall-mounting enclosure with handle and lock with 3-point closure and key 1242 E delivered as standard.
(2) Wall-mounting enclosure with standard 5 mm double bar lock and lock with 4-point closure.
(3) These enclosures are also available equipped with metallic or insulating mounting plates.
(4) Must be protected against sun radiation.

8

Comment:
Dimensions, see page 192

Wall-mounting enclosures with plain door and mounting plate (Not mounted)			
			
Plain	Bakelite	Plain	Bakelite
References	References	References	References
NSYPLM32PG	**NSYPLM32BG**	**-**	**-**
-	**-**	**NSYPLM3025PG**	**NSYPLM3025BG**

External dimensions		
Height (mm)	Width (mm)	Depth (mm)
310	215	160
308	255	160

Comment:
Dimensions, see page 192

Wall-mounting enclosures with plain door and mounting plate (Not mounted)			
			 NSYPLM108BG
Plain		Bakelite	
References		References	
NSYPLM43PG		**NSYPLM43BG**	
NSYPLM54PG		**NSYPLM54BG**	
NSYPLM64PG		**NSYPLM64BG**	
NSYPLM75PG		**NSYPLM75BG**	
NSYPLM86PG		**NSYPLM86BG**	
-		**NSYPLM108BG**	

External dimensions		
Height (mm)	Width (mm)	Depth (mm)
430	330	200
530	430	200
647	436	250
747	536	300
847	636	300
1056	852	350

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Life Is On Schneider Electric

Insulating wall-mounting enclosures



Characteristics	ZM plinth for PLM enclosure
	• Designed to support and raise enclosures **NSYPLM75G**, **NSYPLM86G** and **NSYPLM108G**. • Plinth height of 200 mm; Stackable to obtain a 400 mm plinth. • Four floor attachment points; The symmetry of the parts helps prevent incorrect assembly. The frontal parts of the plinth (front and rear) have two stainless steel screws protected by a plastic cap; These screws make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation. In stacked position, the bottom plinth can be partially buried. It is provided with one transverse reinforcement rail, adjustable to adapt to the position of the cables. The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths.
Material	Polyester reinforced with fibreglass, moulded by hot compression
Ingress protection rating	IP44
Mechanical protection rating	IK10
Standards	Helps guarantee total insulation according to IEC 61439-1

Plinth



NSYZM253G

Characteristics	PLM enclosure	Height (mm)	Width (mm)	Depth (mm)	Reference
Plinth	NSYPLM75G	200	456	302	**NSYZM253G**
Plinth	NSYPLM86G	200	556	302	**NSYZM263G**
Plinth	NSYPLM108G	200	772	352	**NSYZM283G**

Cable supporting cross rail

The lateral sides of the plinths are provided with bosses for attaching cross rails with cut-out profiles, for supporting cables. The reference of the cross rail includes all the elements required for assembly.



NSYAC280

Characteristics	For plinth	Reference
Cable supporting cross rail	NSYZM253G	**NSYAC280**
Cable supporting cross rail	NSYZM263G	**NSYAC360**
Cable supporting cross rail	NSYZM283G	**NSYAC600**

Kit for IP54



NSYAEPZM

Required to obtain IP54 for the plinth and the plinth enclosure coupling.

Characteristics	Reference
Kit for IP54	**NSYAEPZM**

Feet for partially buried installation



NSYAEBFZ

Allows the partially buried installation of plinths before completion of the floor.
The plinths are attached by four feet with a standard length of 750 mm.
Possibility of horizontal adjustment of the plinth. The reference includes a kit made up of four feet and fixings.

Characteristics	Reference
Feet for partially buried installation	**NSYAEBFZ**

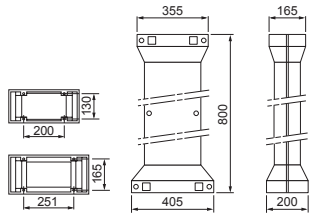
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Insulating wall-mounting enclosures

Floor-mounting pillar

To protect cables entering the enclosure in outdoor installations.
Cable entry section: 165 x 100 mm.
For enclosures ref. **NSYPLM54G**, **NSYPLM54TG**, **NSYPLM64G** and **NSYPLM64TG**.




NSYSFSPLMG

- Material: Polyester reinforced with fibreglass
- Colour: RAL 7035 grey

Supply:
Delivered with steel frame for secure fixing to the floor

Characteristics	Reference
Floor-mounting pillar	**NSYSFSPLMG**

Wall fixing lugs

Set of 4 wall fixing lugs. Mounted directly on the enclosure, either in horizontal position or in vertical position.

- Material: Polyamide loaded with fibreglass
- Colour: RAL 7035 grey
- **Maximum load:**
  On PLM32: Vertical or horizontal: 10 kg
  Other PLM models: Vertical position: 200 kg, horizontal position: 100 kg


NSYPFPLMG


NSYPFPLM32G

Supply:
Delivered with fixings

Characteristics	Reference
Wall fixing lugs	**NSYPFPLMG**
Wall fixing lugs, Exclusive for enclosures ref. NSYPLM32G and NSYPLM32TG.	**NSYPFPLM32G**

Wall fixing lugs

Set of 4 wall fixing lugs. Mounted directly on the enclosure, either in horizontal position or in vertical position.

- Material: Stainless steel
- Colour: RAL 7035 grey
- **Maximum load:**
  On PLM32: Vertical or horizontal: 10 kg
  Other PLM models: Vertical position: 200 kg, horizontal position: 100 kg

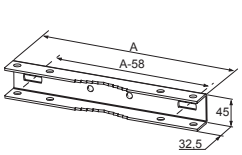

NSYPFXPLM

Supply:
Delivered with fixings

Characteristics	Reference
Wall fixing lugs	**NSYPFXPLM**

Post fixing device


NSYSFP300



- For outdoor installations on a post with a maximum circumference of 675 mm, Ø 215 mm.
- Material: Galvanised steel
- Maximum load: 100 kg

Supply:
Supply of the rail, the strips and the fixings

Characteristics	For wall-mounting enclosure	Reference
Post fixing device	NSYPLM43G	**NSYSFP300**
Post fixing device	NSYPLM54G and NSYPLM64G	**NSYSFP400**
Post fixing device	NSYPLM75G	**NSYSFP500**
Post fixing device	NSYPLM86G	**NSYSFP600**

Blanking plates

Aesthetic Accessory. They are positioned on the rear surface of the enclosures to block the openings in the corners in order to improve their appearance or help prevent the entry of unwanted elements in the ventilation shaft. Supplied as standard for enclosure, ref. **NSYPLM108G**.

- Material: Thermoplastic
- Colour: RAL 7035 grey
- Ingress protection rating: IP40


NSYCEPLMAG

Accessorie out of the protected area IP66

Characteristics	For wall-mounting enclosure	Reference
Blanking plates	NSYPLM32G	**NSYCEPLMAG**
Blanking plates	NSYPLM43G and NSYPLM54G	**NSYCEPLMBG**
Blanking plates	NSYPLM64G, 75G and 86G	**NSYCEPLMCG**

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Insulating wall-mounting enclosures

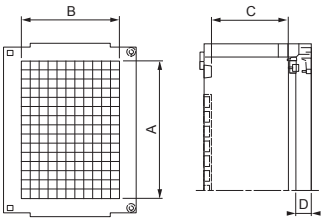
Support bracket for enclosure with anti-tilt kit and reinforcement


NSYCOCNS1400

- The support bracket is used when the enclosure cannot be hung from a wall or a post.
- Suitable for outdoor use.
- Maximum enclosure dimensions: 1000 x 800 x 300 mm.
- Floor attachment by standard M12 fastenings.
- Material: Steel
- Finish: Epoxy polyester paint
- Colour: RAL 7035 grey
- Maximum load: 120 kg

Characteristics	Height (mm)	References
Support bracket for enclosure with anti-tilt kit and reinforcement	1400	**NSYCOCNS1400**
Support bracket for enclosure with anti-tilt kit and reinforcement	1800	**NSYCOCNS1800**

Internal door



- Reversible door.
- Grid pattern with a pitch of 25 mm for easier marking out before drilling.
- Closes with 2 double bar locks.
- Door handle.
- Steel internal door, without grid pattern and locking by a screw, for enclosures ref. **NSYPLM3025G**.
- Incompatible with the modular distribution chassis.
- Material: Polyester reinforced with fibreglass, self-extinguishing
- Colour: RAL 7035 grey

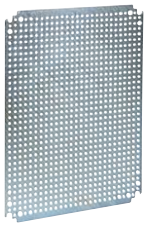
Supply:
Delivered with fixings and brass inserts


NSYPA3025PLMG

Characteristics	Height (mm)	Width (mm)	A (mm)	B (mm)	C (mm)	D Plain door (mm)	D Transp. door (mm)	Reference
Internal door	308	255	248	165	62	76	71	**NSYPA3025PLMG**
Internal door	430	330	315	205	152	26	21	**NSYPAP43G**
Internal door	530	430	415	305	152	26	21	**NSYPAP54G**
Internal door	645	435	515	305	194	32	27	**NSYPAP64G**
Internal door	745	535	615	405	244	32	27	**NSYPAP75G**
Internal door	845	635	715	505	244	32	27	**NSYPAP86G**
Internal door	1055	850	850	650	269	37	32	**NSYPAP108G**

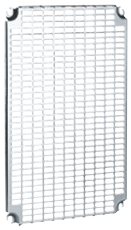
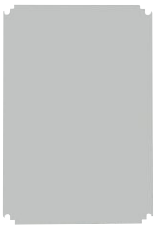
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Insulating wall-mounting enclosures

					Metallic mounting Plate			
								
Characteristics					**Plain**	**Skilscreened**	**Microperforated**	
Model	Enclosure Dimensions			MP Dimension				
	Height (mm)	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Reference	Reference	Reference
NSYPLM32	310	215	160	250	150	**NSYMM32**	-	-
NSYPLM3025	308	255	160	250	200	**NSYMM3025**	-	-
NSYPLM43	430	330	200	230	350	**NSYMM43**	**NSYMS43**	**NSYMF43**
NSYPLM54	530	430	200	450	350	**NSYMM54**	**NSYMS54**	**NSYMF54**
NSYPLM64	647	436	250	550	350	**NSYMM64**	**NSYMS64**	**NSYMF64**
NSYPLM75	747	536	300	650	450	**NSYMM75**	**NSYMS75**	**NSYMF75**
NSYPLM86	847	636	300	750	550	**NSYMM86**	**NSYMS86**	**NSYMF86**
NSYPLM108	1056	852	350	950	750	**NSYMM108**	-	**NSYMF108**

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	Insulating mounting plates	
		
Telequick	**Bakelite**	**Polyester**

Height (mm)	Width (mm)	# of perforation H	# of perforation W	Reference	Height (mm)	Width (mm)	Thick. (mm)	Reference	Height (mm)	Width (mm)	Thick. (mm)	Reference
255	153.7	16	5	**NSYMR32**	265	150	4	**NSYMB32**	265	150	4	**NSYMPP32**
253	228	16	8	**NSYMR3025**	265	200	4	**NSYMB3025**	265	200	4	**NSYMPP3025**
348.7	251	22	9	**NSYMR43**	325	250	4	**NSYMB43**	325	250	4	**NSYMPP43**
450	351	31	11	**NSYMR54**	465	350	4	**NSYMB54**	465	350	4	**NSYMPP54**
555	351	38	11	**NSYMR64**	565	350	4	**NSYMB64**	565	350	4	**NSYMPP64**
645	451	44	14	**NSYMR75**	665	450	4	**NSYMB75**	665	450	4	**NSYMPP75**
750	551	51	17	**NSYMR86**	765	550	4	**NSYMB86**	765	550	5	**NSYMPP86**
945	751	64	24	**NSYMR108**	965	750	4	**NSYMB108**	965	750	5	**NSYMPP108**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulating wall-mounting enclosures

- The ABS/PC 310 x 215 mm enclosure is supplied with a lock with a double bar insert as standard.
- The 308 x 255 mm enclosure is supplied with one lock with a double bar insert as standard.
- The polyester enclosures from 430 to 847 mm high are delivered as standard with: 2 locks with double bar insert, ref. **NSYCDBPLM**, or a 3-point closure with handle and lock with key 1242 E (enclosures **NSYPLM●●VG**).
- Double bar insert ref. **NSYTDBCRN**, is placed in a rectangular escutcheon.
- A plastic key, ref. **NSYDBP**, enabling the opening of the double bar insert, is included in the standard supply. This key can be fixed to the double bar system to remain on the enclosure and be used as a handle.

Options to transform the locks with double bar inserts **NSYPLM32G** to **NSYPLM86G**

- Changing the shape inserts for locks with keys according to the following table.


NSYTC8CRN


NSYTT8CRN


NSYTL405PLM

Characteristics	Operated with a key	References
Square insert 6 mm □	LC-7	**NSYTC6CRN**
Square insert 7 mm □	LC-7	**NSYTC7CRN**
Square insert 8 mm □	LC-8	**NSYTC8CRN**
Triangular insert 6 mm ▲	LT-8	**NSYTT6CRN**
Triangular insert 8 mm ▲	LT-8	**NSYTT8CRN**
Lock and key 405		**NSYTL405PLM**
Lock and key 220		**NSYTL220PLM**
Lock TJIS		**NSYTJIS**

Options to transform the locks with double bar inserts **NSYPLM32G** to **NSYPLM86G**

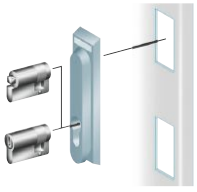
- Replacement for locking handle with cylindrical barrel, delivered with all the parts required to change the lock.


NSYTHL1242EPLM

Characteristics	References
Key 1242 E	**NSYTHL1242EPLM**
Key 405	**NSYTHL405PLM**
Key 421	**NSYTHL421PLM**
Key 455	**NSYTHL455PLM**
Key 2331 A	**NSYTHL2331APLM**
Key 2433 A	**NSYTHL2433APLM**
Key 3113 A	**NSYTHL3113APLM**
Key 3131A	**NSYTHL3131APLM**
Manual	**NSYTHPLM**

Options to transform versions **NSYPLM●●V**, with retractable handle and 3-point closure

- Transformation of the standard insert (barrel for key 1242E, ref. **NSYTL1242EME**) for other shape inserts or barrels according to the following table.


NSYTDB5ME

Characteristics	References
5 mm double bar	**NSYTDB5ME**
6 mm male square	**NSYTC6ME**
8 mm male square	**NSYTC8ME**
6.5 mm male triangle	**NSYTT6ME**
8 mm male triangle	**NSYTT8ME**
Barrel and key 405	**NSYTCL405ME**
Reinforced key and barrel	**NSYTLRME**
JIS key and barrel	**NSYTLJISME**
Manual	**NSYTMME**

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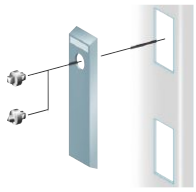
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Insulating wall-mounting enclosures

- Enclosures delivered as standard with 5 mm double bar insert.
- Double bar insert ref. **NSYTDB5PL**, placed in a long rectangular escutcheon, activates a 4-point closure system.

Locks and inserts for enclosures **NSYPLM108/T**

- Options to transform the insert
- The standard insert can be replaced with other shape inserts, according to the following table.

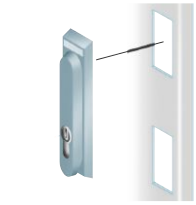


NSYTDB5PL

Characteristics	References
Double bar insert	**NSYTDB5PL**
6.5 mm male triangle	**NSYTT6PL**
7 mm male triangle	**NSYTT7PL**
8 mm male triangle	**NSYTT8PL**

Locks and inserts for enclosures **NSYPLM108/T**

- Options to transform for a retractable handle
- The escutcheon and rosette assembly can be replaced with a lock with retractable handle equipped with inserts or barrels, according to the following table.



NSYTEDB5PL

Characteristics	References
5 mm double bar	**NSYTEDB5PL**
6 mm male square	**NSYTEC6PL**
7 mm male square	**NSYTEC7PL**
8 mm male square	**NSYTEC8PL**
6.5 mm male triangle	**NSYTET6PL**
8 mm male triangle	**NSYTET8PL**
Lock key 1242 E	**NSYTEL1242EPL**
Barrel and key 405	**NSYTEL405PL**
Reinforced key and barrel	**NSYTERPL**
JIS key and barrel	**NSYTELJISPL**
FAC key and barrel	**NSYTELFACPL**
Manual	**NSYTEMPL**

Padlocking accessories

Padlocking system positioned around the rectangular escutcheon of the enclosures with a height of ≤ 847 mm to block access to the lock; For a Ø 9 mm padlock.



NSYKPLM

Characteristics	References
Padlocking accessories	**NSYKPLM**

Padlocking accessories

Padlocking system positioned around the long rectangular escutcheon of the enclosures ref. **NSYPLM108G/TG**, to block access to the lock; For Ø 9 mm padlock.



NSYBCPL

Characteristics	References
Padlocking accessories	**NSYBCPL**

Padlocking accessories

Padlocking system to block access to the retractable handle, for the versions **NSYPLM●●V** or optionally for enclosures ref. **NSYPLM108G/TG**, for a Ø 9 mm padlock.



NSYBCME

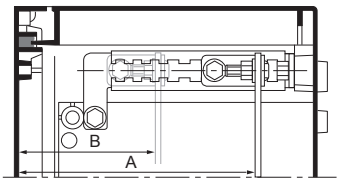
Characteristics	References
Padlocking accessories	**NSYBCME**

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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Insulating wall-mounting enclosures

Step slides



Kit allowing depth adjustment with a pitch of 12.5 mm, and the fixings required for the installation. Incompatible with the modular distribution chassis.

Supply:
4 step slides with brackets


NSYDPLM200

Characteristics (Material: Galvanised steel)	For wall-mounting enclosure depth (mm)	Depth adjustment A (mm)	Depth adjustment B (mm)	References
Step slides	200	156	94	**NSYDPLM200**
Step slides	250	200	100	**NSYDPLM250**
Step slides	300	250	100	**NSYDPLM300**
Step slides	350	306	106	**NSYDPLM350**

Plastic nuts for rail fixing

They slide directly into the notches, with a pitch of 25 mm, which are located on the rear of the enclosures, except enclosure ref. **NSYPLM3025G/TG**. They allow direct fixing of symmetrical DIN rails by self-tapping screws. Option of raising the rails with an M6 spacer using a plastic nut containing an M6 nut.

Supply:
References by unit. Order by multiples of 20 units (20, 40, 60, etc.)


NSYTCSPLM

Characteristics	References
Plastic nut with self- tapping screw	**NSYTCSPLM**
Plastic nut containing an M6 metal nut	**NSYTCSM6PLM**

35 mm symmetrical DIN rails

They are fixed to the rear of the enclosure without uprights, with a pitch of 25 mm for the notches on the rear of the enclosure, with the help of direct-fixing nuts ref. **NSYTCSPLM** or **NSYTCSM6PLM**.
- Material: Galvanised steel

Supply:
References by unit. Order by multiples of 2 units (2, 4, 6, etc.)


NSYCS200PLM

Characteristics	For wall-mounting enclosure width (mm)	Rail length (mm)	References
35 mm symmetrical DIN rails	215	180	**NSYCS200PLM**
35 mm symmetrical DIN rails	330	280	**NSYCS300PLM**
35 mm symmetrical DIN rails	430 / 436	380	**NSYCS400PLM**
35 mm symmetrical DIN rails	536	480	**NSYCS500PLM**
35 mm symmetrical DIN rails	636	580	**NSYCS600PLM**
35 mm symmetrical DIN rails	852	795	**NSYCS800PLM**

Coupling frame

Allows the lateral coupling of two enclosures.
- Material: Polyester frame
- Colour: RAL 7035 grey
- Ingress protection rating:
  A built-in sealing gasket guarantees a protection rating of IP66

Supply:
Delivered with fixings


NSYBUPLMG

Characteristics	External dimensions (mm)	Entry	For wall-mounting enclosure	References
Coupling frame	435 x 185 x 15	398 x 148	NSYPLM75G and NSYPLM86G	**NSYBUPLMG**
Coupling frame	635 x 185 x 15	598 x 148	NSYPLM108G	**NSYBU108PLMG**

Cable gland plates

- Material: Polyester
- Colour: RAL 7035 grey

Supply:
Delivered with fixings


NSYTLA4420G

Characteristics	External dimensions (mm)	Entry	For wall-mounting enclosure	References
Cable gland plates	435 x 185 x 15	398 x 148	NSYPLM75G and NSYPLM86G	**NSYTLA4420G**
Cable gland plates	635 x 185 x 15	598 x 148	NSYPLM108G	**NSYTLA6420G**

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Insulating wall-mounting enclosures

Fixing inserts


NSYTEX5


NSYTEX6


NSYTEX8PLM

Expanding inserts for addition to the M6 bosses of the enclosure, the M5 or M6 bosses of the door and the M8 bosses of the external rear part of the enclosure.

Supply:
References by unit. Order by multiples of 8 units (8, 16, 24, etc.). M5 and M6 inserts to be ordered in multiples of 20

Characteristics	Insert size	For wall-mounting enclosure	References
Fixing inserts	M5	NSYPLM43G and NSYPLM54G	**NSYTEX5**
Fixing inserts	M6	NSYPLM64G to NSYPLM108G	**NSYTEX6**
Fixing inserts	M8	For the rear of the enclosure	**NSYTEX8PLM**

Ventilation louvres


NSYCAG35LP

- They can be positioned inside the wall-mounting enclosures with heights from 430 to 846 mm, allowing ventilation through the channels of the enclosure.

Supply:
References by unit. Order by multiples of 2 units (2, 4, 6, etc.)

Characteristics	References
Ventilation louvres	**NSYCAG35LP**

Water drain plug


NSYVEA9

- For drainage of condensation water.(Condensation should be eliminated using ClimaSys solution.) It is placed in the Ø 8.5 mm (8.2 mm for wall-mounting enclosures **NSYPLM32G**, **NSYPLM32TG**, **NSYPLM32PG** and **NSYPLM32BG**. diverse accesories) housing at the bottom of the enclosure.
- Ingress protection rating: IP53

Supply:
References by unit. Order by multiples of 10 units (10, 20, 30, etc.)

Characteristics	References
Water drain plug	**NSYVEA9**

Renovation and anti graffiti paint


NSYAUPG1G

Supply: NSYAUPG1G
The 1 kg reference includes 1 pot with 800 g of base paint and 200 g of hardener
(It is enough to paint a surface of around 5 m²)

Supply: NSYAUPG5G
The 5 kg reference includes 1 pot with 4 kg of base paint and 1 kg of hardener
(It is enough to paint a surface of around 25 m²)

- Paint kit with two components (base 80 % + hardener 20 %)
- Specially designed for polyester enclosures, for their renovation and/or as prevention to allow easy removal of graffiti.
- Colour: RAL 7035 grey

Characteristics	References
Renovation and anti graffiti paint	**NSYAUPG1G**
Renovation and anti graffiti paint	**NSYAUPG5G**

Supply:
1 kg

- Solvent bottles to be used as a paint thinner or to clean brushes.

Characteristics	References
Renovation and anti graffiti paint solvent	**NSYAUPGS**

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S3D* S3X PLM

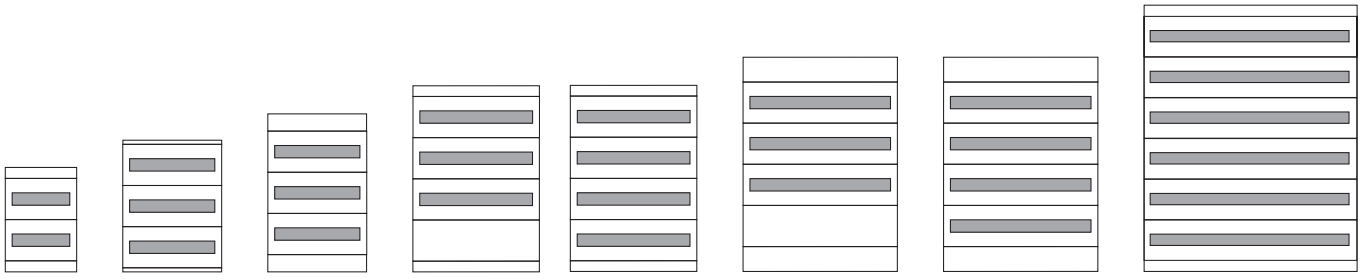
Characteristics	DLA modular chassis
	• Front panels and covers installed in the front part, are not depth adjustable. • Rigid structure for the installation of modular devices. • Open front panels with 35 mm DIN rail and plain front panels with mounting plate, according to the model. • Front plates quick installation with no fixings. • Rail depth adjustable from 40 to 85 mm. • System for standard circuit marking. • Incompatible with the internal doors and the step slides. • Neutral / earth strip: 2 x 16 mm² + 5 x 6 mm².
Material	Front panels and finish covers: Polystyrene Rigid structure: Galvanised steel
Colour	Front panels and finish covers: RAL 7035 grey

DLA modular chassis

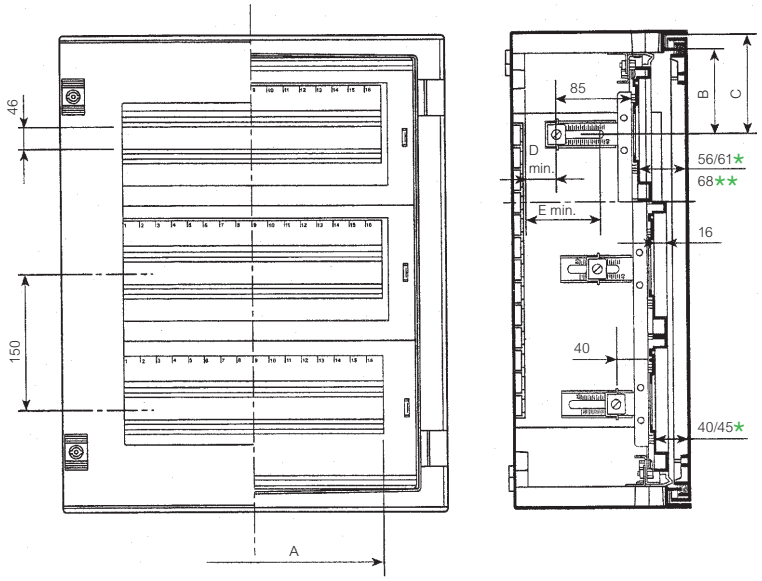


NSYDLA24G

Characteristics	No. of rows	No. of 18 mm modules per row	No. of 18 mm modules	No. of plates	PLM enclosure References		S3D enclosure (depth ≥ 200 mm) Height (mm)	Width (mm)	Reference
DLA modular chassis	2	12	24	-	NSYPLM43G	NSYPLM43TG	400	300	**NSYDLA24G**
DLA modular chassis	3	16	48	-	NSYPLM54G	NSYPLM54TG	500	400	**NSYDLA48G**
DLA modular chassis	3	16	48	-	NSYPLM64G	NSYPLM64TG	600	400	**NSYDLA48PG**
DLA modular chassis	3	22	66	1	NSYPLM75G	NSYPLM75TG	700	500	**NSYDLA66G**
DLA modular chassis	4	22	88	-	NSYPLM75G	NSYPLM75TG	700	500	**NSYDLA88G**
DLA modular chassis	3	28	84	1	NSYPLM86G	NSYPLM86TG	800	600	**NSYDLA84G**
DLA modular chassis	4	28	112	-	NSYPLM86G	NSYPLM86TG	800	600	**NSYDLA112G**
DLA modular chassis	6	39	234	-	NSYPLM108G	NSYPLM108TG	1000	800	**NSYDLA234G**



NSYDLA24 **NSYDLA48** **NSYDLA48P** **NSYDLA66** **NSYDLA88** **NSYDLA84** **NSYDLA112** **NSYDLA234**



★ Models **NSYDLA48PG**, **66**, **88**, **84** and **112**.
★★ Models **NSYDLA234**.

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Insulating wall-mounting enclosures

Plain front panels for Dinimel DLA chassis

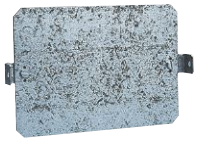
- Front panel for non modular device protection, on one row.
- To be ordered in multiples of two.
- Material: Polystyrene
- Colour: RAL 7035 grey


NSYCTL300DLAG

Characteristics	Width (mm)	For installing on the chassis	Reference
Plain front panels for Dinimel DLA chassis	256	NSYDLA24G	**NSYCTL300DLAG**
Plain front panels for Dinimel DLA chassis	356	NSYDLA48G and NSYDLA48PG	**NSYCTL400DLAG**
Plain front panels for Dinimel DLA chassis	456	NSYDLA66G and NSYDLA88G	**NSYCTL500DLAG**
Plain front panels for Dinimel DLA chassis	555	NSYDLA84G and NSYDLA112G	**NSYCTL600DLAG**
Plain front panels for Dinimel DLA chassis	755	NSYDLA234G	**NSYCTL800DLAG**

Mounting plate for Dinimel DLA chassis

- Mounting plate for mounting nonmodular devices, on one row.
- To be ordered in multiples of two.
- Material: Galvanised steel


NSYPMP400DLA

Characteristics	Width (mm)	For installing on the chassis	Reference
Mounting plate for Dinimel DLA chassis	315	NSYDLA48G and NSYDLA48PG	**NSYPMP400DLA**
Mounting plate for Dinimel DLA chassis	415	NSYDLA66G and NSYDLA88G	**NSYPMP500DLA**
Mounting plate for Dinimel DLA chassis	514	NSYDLA84G and NSYDLA112G	**NSYPMP600DLA**
Mounting plate for Dinimel DLA chassis	714	NSYDLA234G	**NSYPMP800DLA**

Modular distribution chassis

- For mounting modular devices on two rows of nine 18 mm modules.
- Material:
  Chassis: Metal Protective
  Plate: Insulating material

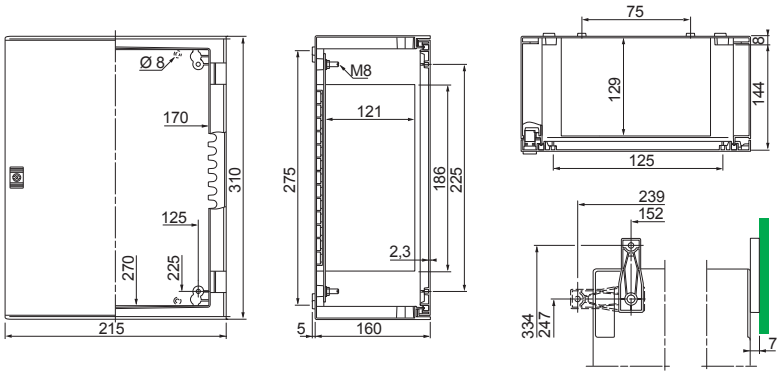

NSYDLPLM18G

Characteristics	For enclosure	Reference
Modular distribution chassis	NSYPLM3025G/TG	**NSYDLPLM18G**

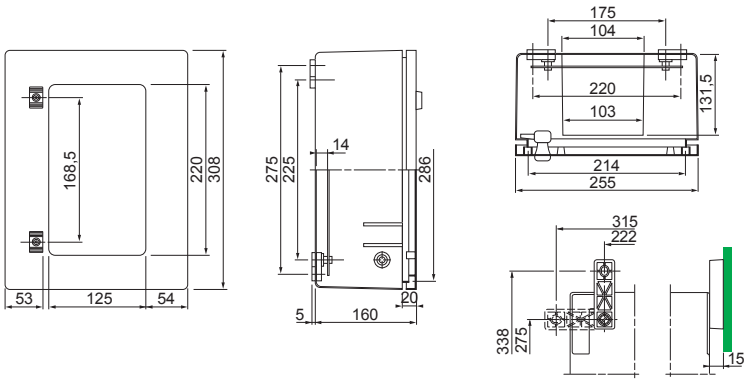
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Insulating wall-mounting enclosures

ABS/PC wall-mounting enclosures



Polyester wall-mounting enclosures 308 x 255 mm



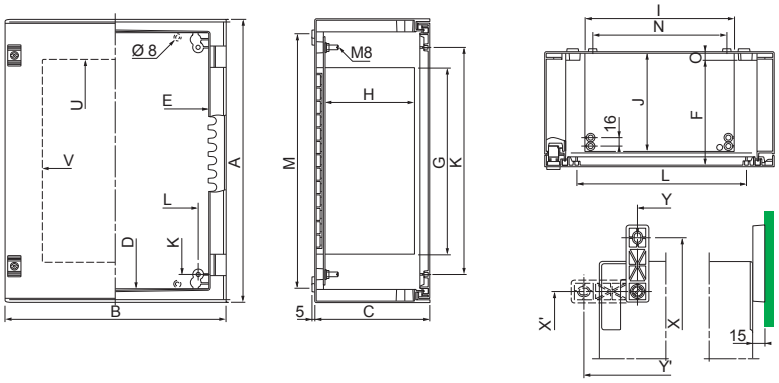
Warning! now there's only one lock for this model

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Insulating wall-mounting enclosures

Other polyester wall-mounting enclosures



External fixing with lugs (mm)				
	Vertical		Horizontal	
References	X	Y	X'	Y'
NSYPLM43G	490	225	355	360
NSYPLM54G	590	325	455	460
NSYPLM64G	690	330	555	465
NSYPLM75G	790	430	655	565
NSYPLM86G	890	530	755	665
NSYPLM108G	1090	750	955	885

Glazed door opening (mm)		
References	U	V
NSYPLM43TG	273	194
NSYPLM43TVG	273	151
NSYPLM54TG	373	294
NSYPLM54TVG	373	251
NSYPLM64TG	463	294
NSYPLM64TVG	463	252
NSYPLM75TG	563	394
NSYPLM75TVG	563	352
NSYPLM86TG	663	494
NSYPLM86TVG	663	452
NSYPLM108TG	854	661

	Dimensions (mm)										Bottom screw and door bosses (mm)		Internal fixing (mm)		
References	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
NSYPLM43G	430	330	200	380	260	181	247	247	179	168	325	225	225	150	13
NSYPLM54G	530	430	200	480	360	181	347	347	279	168	425	325	325	250	13
NSYPLM64G	647	436	250	580	360	228	388	388	279	212	525	325	325	250	13
NSYPLM75G	747	536	300	680	460	278	487	487	379	261	625	425	425	350	15
NSYPLM86G	847	636	300	780	560	278	587	587	479	261	725	525	525	450	15
NSYPLM108G	1056	852	350	980	760	327	775	775	680	300	925	725	725	650	15

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PLA Version



PLAT Version



PLAZ Version



PLAZT Version



PLD Version



Life Is On Schneider Electric

Insulating floor-standing enclosures

Thalassa PLA Polyester floor-standing enclosures

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Thalassa PLD Polyester DIN floor-standing enclosure

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Polyester floor-standing enclosures

The **floor-standing enclosures** are made of **polyester reinforced with fibreglass**, moulded by hot compression. High resistance to corrosion in harsh environments, it maintains its mechanical and insulation properties.



This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

Green Premium™

New Bigger dimensions

2000 mm height and 620 mm depth dimensions have been included to fit industry and infrastructure demands for motor control, power distribution, electronics or telecom applications.

PLAT version



Ventilation

- Open top with canopy allows passive ventilation.



Easy

- Various bosses for M8 inserts.

PLAZ version



Open bottom

- Big open bottom to be mounted directly on the floor or on a plinth.



Smart

- Plain mounting plate installed on step slides and compulsory adapter plates in all the enclosures with open bottom part.

PLAZT version



Easy

- Door opening to 180°.



Resistant

- Anti lever security system..

See page 522 for details or consult our web site www.se.com

Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure.
Without affecting the technical properties according to IEC 62208.
For long exposure applications, it is recommended to use painted enclosures available through the P&S offer.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Class II

Characteristics	PLA	PLAT	PLAZ	PLAZT
				
	Completely sealed enclosure Enclosure obtained by assembling: • 1 sealed top part, • 1 sealed bottom part, • 2 side parts, • 1 or 2 rear panels (according to width), • 1 or 2 doors (according to width). • Locking system with handle with a 5 mm double bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. • Door opening to 120°.	**Enclosure with ventilated canopy** Enclosure obtained by assembling: • 1 open top part with canopy, • 1 sealed bottom part, • 2 side parts, • 1 or 2 rear panels (according to width), • 1 or 2 doors (according to width). • Locking system with handle with a 5 mm double bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. • Door opening to 120°.	**Enclosure with open bottom** Enclosure obtained by assembling: • 1 sealed top part, • 1 plinth-type open bottom part, • 2 side parts, • 1 or 2 rear panels (according to width), • 1 or 2 doors (according to width). • Locking system with handle with a 5 mm double bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available. • Door opening to 120°.	**Enclosure with open bottom and ventilated canopy** • Enclosure obtained by assembling: • 1 open top part with canopy, • 1 plinth-type open bottom part, • 2 side parts, • 1 or 2 rear panels (according to width), • 1 or 2 doors (according to width). • Locking system with handle with a 5 mm double bar insert block. Other blocks with inserts or barrels and keys optionally available. • Door opening to 180°. • Anti-lever system to help prevent forcing of the door.
Material	• Polyester reinforced with fibreglass			
Finish	• Moulded by hot compression: The pieces have an excellent finish on both sides and can include numerous bosses for accommodating inserts and mounting or cable management accessories			
Colour	• RAL 7035 grey			
Ingress protection rating	IP65 according to IEC 60529	• IP44 according to IEC 60529 • IP54 with 1 or 2 internal grilles, ref. **NSYCAG125LPF**, to be ordered separately.	IP54 according to IEC 60529	• IP44 according to IEC 60529 • IP54 with 1 or 2 internal grilles, ref. **NSYCAG125LPF**, to be ordered separately
Mechanical protection rating	IK10 (20 joules) plain door - IEC62262 and IK08 glazed door			
Insulation	• Class II according to IEC 60950-1 if the mounting process follow the included mounting instructions sheet			
Certifications	• UL 508A/CAN-CSA 22 • single door: NEMA types 1, 2, 3, 3R, 3S, 5, 12 and 13 • double door: NEMA types 1, 2, 12 and 13 • Bureau Veritas Marine • IEC 62208	• IEC 62208		
Installation	• Indoor use only. For outdoor use, must install a canopy	• Outdoor or indoor installation		
	• Direct fixing to the floor or by means of a plinth with a height of 60 mm, as an option, see page 202 • Possibility of fixing on a semi-embedded plinth, see page 202 • Optional wall fixing lugs		• The open bottom part forms a 60 mm plinth which is fixed to the floor directly or by means of an optional fixing frame, see page 204, or else it is installed on a semi-embedded plinth, see page 204	
	• The versions with glassed door must be protected against the direct sun shine to avoid greenhouse effect			
Options	• Anti-posting door upon request			

PHD - Applicative and customised solutions:
See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 406.

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Polyester floor-standing enclosures

Indoor and Outdoor:
For outdoor use, must install a canopy.

Completely sealed enclosures, IP65						Enclosures with open bottom part, IP54
				 PLA	 PLA	 PLAZ
Dimensions (mm)						
Height	Width	Depth	N° of doors	Plain	Glazed**	Plain
500	500	320	1	NSYPLA553G	NSYPLA553TG	NSYPLAZ553G
500	500	420	1	NSYPLA554G	NSYPLA554TG	NSYPLAZ554G
500	750	320	1	NSYPLA573G	NSYPLA573TG	NSYPLAZ573G
500	750	420	1	NSYPLA574G	NSYPLA574TG	NSYPLAZ574G
500	1000	320	2	NSYPLA5103G	NSYPLA5103TG	NSYPLAZ5103G
500	1000	420	2	NSYPLA5104G	NSYPLA5104TG	NSYPLAZ5104G
500	1250	320	2	NSYPLA5123G	NSYPLA5123TG	NSYPLAZ5123G
500	1250	420	2	NSYPLA5124G	NSYPLA5124TG	NSYPLAZ5124G
750	500	320	1	NSYPLA753G	NSYPLA753TG	NSYPLAZ753G
750	500	420	1	NSYPLA754G	NSYPLA754TG	NSYPLAZ754G
750	750	320	1	NSYPLA773G	NSYPLA773TG	NSYPLAZ773G
750	750	420	1	NSYPLA774G	NSYPLA774TG	NSYPLAZ774G
750	750	620	1	NSYPLA776G	NSYPLA776TG	NSYPLAZ776G
750	1000	320	2	NSYPLA7103G	NSYPLA7103TG	NSYPLAZ7103G
750	1000	420	2	NSYPLA7104G	NSYPLA7104TG	NSYPLAZ7104G
750	1250	320	2	NSYPLA7123G	NSYPLA7123TG	NSYPLAZ7123G
750	1250	420	2	NSYPLA7124G	NSYPLA7124TG	NSYPLAZ7124G
1000	500	320	1	NSYPLA1053G	NSYPLA1053TG	NSYPLAZ1053G
1000	500	420	1	NSYPLA1054G	NSYPLA1054TG	NSYPLAZ1054G
1000	750	320	1	NSYPLA1073G	NSYPLA1073TG	NSYPLAZ1073G
1000	750	420	1	NSYPLA1074G	NSYPLA1074TG	NSYPLAZ1074G
1000	1000	320	2	NSYPLA10103G	NSYPLA10103TG	NSYPLAZ10103G
1000	1000	420	2	NSYPLA10104G	NSYPLA10104TG	NSYPLAZ10104G
1000	1250	320	2	NSYPLA10123G	NSYPLA10123TG	NSYPLAZ10123G
1000	1250	420	2	NSYPLA10124G	NSYPLA10124TG	NSYPLAZ10124G
1250	500	320	1	NSYPLA1253G	NSYPLA1253TG	NSYPLAZ1253G
1250	500	420	1	NSYPLA1254G	NSYPLA1254TG	NSYPLAZ1254G
1250	750	320	1	NSYPLA1273G	NSYPLA1273TG	NSYPLAZ1273G
1250	750	420	1	NSYPLA1274G	NSYPLA1274TG	NSYPLAZ1274G
1250	750	620	1	NSYPLA1276G	NSYPLA1276TG	NSYPLAZ1276G
1250	1000	320	2	NSYPLA12103G	NSYPLA12103TG	NSYPLAZ12103G
1250	1000	420	2	NSYPLA12104G	NSYPLA12104TG	NSYPLAZ12104G
1250	1250	320	2	NSYPLA12123G	NSYPLA12123TG	NSYPLAZ12123G
1250	1250	420	2	NSYPLA12124G	NSYPLA12124TG	NSYPLAZ12124G
1250	1250	620	2	NSYPLA12126G	NSYPLA12126TG	NSYPLAZ12126G
1500	500	320	1	NSYPLA1553G	NSYPLA1553TG	NSYPLAZ1553G
1500	500	420	1	NSYPLA1554G	NSYPLA1554TG	NSYPLAZ1554G
1500	750	320	1	NSYPLA1573G	NSYPLA1573TG	NSYPLAZ1573G
1500	750	420	1	NSYPLA1574G	NSYPLA1574TG	NSYPLAZ1574G
1500	750	620	1	NSYPLA1576G	NSYPLA1576TG	NSYPLAZ1576G
1500	1000	320	2	NSYPLA15103G	NSYPLA15103TG	NSYPLAZ15103G
1500	1000	420	2	NSYPLA15104G	NSYPLA15104TG	NSYPLAZ15104G
1500	1250	320	2	NSYPLA15123G	NSYPLA15123TG	NSYPLAZ15123G
1500	1250	420	2	NSYPLA15124G	NSYPLA15124TG	NSYPLAZ15124G
1500	1250	620	2	NSYPLA15126G	NSYPLA15126TG	NSYPLAZ15126G
2000	750	420	2*	NSYPLA2074G	NSYPLA2074TG	NSYPLAZ2074G

*Two doors in vertical.

**Recommended to protect against the direct sun radiation.

PHD - Applicative and customised solutions:
See the Polyester Heavy Duty offer in the applicative and customised solutions, page 406.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester floor-standing enclosures

Indoor and Outdoor:
For outdoor use, must install a canopy.

Enclosures with ventilated canopy, IP44	Enclosures with open bottom part and ventilated canopy, IP44
 PLAT	 PLAZT

Dimensions (mm)					
Height	Width	Depth	N° of doors	Plain	Plain
500	500	320	1	NSYPLAT553G	NSYPLAZT553G
500	500	420	1	NSYPLAT554G	NSYPLAZT554G
500	750	320	1	NSYPLAT573G	NSYPLAZT573G
500	750	420	1	NSYPLAT574G	NSYPLAZT574G
500	1000	320	2	NSYPLAT5103G	NSYPLAZT5103G
500	1000	420	2	NSYPLAT5104G	NSYPLAZT5104G
500	1250	320	2	NSYPLAT5123G	NSYPLAZT5123G
500	1250	420	2	NSYPLAT5124G	NSYPLAZT5124G
750	500	320	1	NSYPLAT753G	NSYPLAZT753G
750	500	420	1	NSYPLAT754G	NSYPLAZT754G
750	750	320	1	NSYPLAT773G	NSYPLAZT773G
750	750	420	1	NSYPLAT774G	NSYPLAZT774G
750	750	620	1	NSYPLAT776G	NSYPLAZT776G
750	1000	320	2	NSYPLAT7103G	NSYPLAZT7103G
750	1000	420	2	NSYPLAT7104G	NSYPLAZT7104G
750	1250	320	2	NSYPLAT7123G	NSYPLAZT7123G
750	1250	420	2	NSYPLAT7124G	NSYPLAZT7124G
1000	500	320	1	NSYPLAT1053G	NSYPLAZT1053G
1000	500	420	1	NSYPLAT1054G	NSYPLAZT1054G
1000	750	320	1	NSYPLAT1073G	NSYPLAZT1073G
1000	750	420	1	NSYPLAT1074G	NSYPLAZT1074G
1000	1000	320	2	NSYPLAT10103G	NSYPLAZT10103G
1000	1000	420	2	NSYPLAT10104G	NSYPLAZT10104G
1000	1250	320	2	NSYPLAT10123G	NSYPLAZT10123G
1000	1250	420	2	NSYPLAT10124G	NSYPLAZT10124G
1250	500	320	1	NSYPLAT1253G	NSYPLAZT1253G
1250	500	420	1	NSYPLAT1254G	NSYPLAZT1254G
1250	750	320	1	NSYPLAT1273G	NSYPLAZT1273G
1250	750	420	1	NSYPLAT1274G	NSYPLAZT1274G
1250	750	620	1	NSYPLAT1276G	NSYPLAZT1276G
1250	1000	320	2	NSYPLAT12103G	NSYPLAZT12103G
1250	1000	420	2	NSYPLAT12104G	NSYPLAZT12104G
1250	1250	320	2	NSYPLAT12123G	NSYPLAZT12123G
1250	1250	420	2	NSYPLAT12124G	NSYPLAZT12124G
1250	1250	620	2	NSYPLAT12126G	NSYPLAZT12126G
1500	500	320	1	NSYPLAT1553G	NSYPLAZT1553G
1500	500	420	1	NSYPLAT1554G	NSYPLAZT1554G
1500	750	320	1	NSYPLAT1573G	NSYPLAZT1573G
1500	750	420	1	NSYPLAT1574G	NSYPLAZT1574G
1500	750	620	1	NSYPLAT1576G	NSYPLAZT1576G
1500	1000	320	2	NSYPLAT15103G	NSYPLAZT15103G
1500	1000	420	2	NSYPLAT15104G	NSYPLAZT15104G
1500	1250	320	2	NSYPLAT15123G	NSYPLAZT15123G
1500	1250	420	2	NSYPLAT15124G	NSYPLAZT15124G
1500	1250	620	2	NSYPLAT15126G	NSYPLAZT15126G
2000	750	420	Two doors in vertical	NSYPLAT2074G	NSYPLAZT2074G

PHD - Applicative and customised solutions:
See the Polyester Heavy Duty offer in the applicative and customised solutions, page 406.

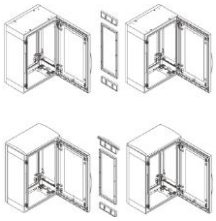
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Polyester floor-standing enclosures

Horizontal coupling kits, 15 mm, join two enclosures mounted on ZA plinths

- For coupling two enclosures side by side.
- Coupling frame kit: Made up of a coupling kit and the fixings required for installation.
- Trim kit: Made up of two frames for aesthetic fitting of the two coupled enclosures
- Coupling kit widths: 15 mm - Join two enclosures mounted on ZA plinths
- Ingress protection rating: IP55 at the coupling point

Note:
Not valid for coupling two enclosures using ZZ or ZH type plinth.



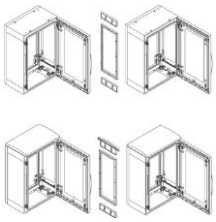
NSYMUPLA53G

Characteristics	Depth (mm)	Height (mm)	References
Coupling frame kit 15 mm	320	500	**NSYMUPLA53G**
Coupling frame kit 15 mm	320	750	**NSYMUPLA73G**
Coupling frame kit 15 mm	320	1000	**NSYMUPLA103G**
Coupling frame kit 15 mm	320	1250	**NSYMUPLA123G**
Coupling frame kit 15 mm	320	1500	**NSYMUPLA153G**
Coupling frame kit 15 mm	420	500	**NSYMUPLA54G**
Coupling frame kit 15 mm	420	750	**NSYMUPLA74G**
Coupling frame kit 15 mm	420	1000	**NSYMUPLA104G**
Coupling frame kit 15 mm	420	1250	**NSYMUPLA124G**
Coupling frame kit 15 mm	420	1500	**NSYMUPLA154G**
Coupling frame kit 15 mm	420	2000	**NSYMUPLA204G**
Coupling frame kit 15 mm	620	750	**NSYMUPLA76G**
Coupling frame kit 15 mm	620	1250	**NSYMUPLA126G**
Coupling frame kit 15 mm	620	1500	**NSYMUPLA156G**
Trim kit for enclosure without canopy	320	-	**NSYSUPLA3G**
Trim kit for enclosure witht canopy	320	-	**NSYSUPLA3TG**
Trim kit for enclosure without canopy	420	-	**NSYSUPLA4G**
Trim kit for enclosure with canopy	420	-	**NSYSUPLA4TG**

Horizontal coupling kits 35 mm, join two enclosures mounted on ZZ or ZH plinths

- For coupling two enclosures side by side.
- Coupling frame kit: Made up of a coupling kit and the fixings required for installation.
- Trim kit: Made up of two frames for aesthetic fitting of the two coupled enclosures
- Coupling kit widths: 35 mm - Join two enclosures mounted on ZZ or ZH plinths
- Ingress protection rating: IP55 at the coupling point

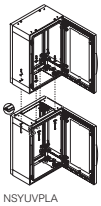
Note:
Not valid for coupling two enclosures using ZA plinths



NSYMUPLA53W

Characteristics	Depth (mm)	Height (mm)	References
Coupling frame kit 35 mm	320	500	**NSYMUPLA53W**
Coupling frame kit 35 mm	320	750	**NSYMUPLA73W**
Coupling frame kit 35 mm	320	1000	**NSYMUPLA103W**
Coupling frame kit 35 mm	320	1250	**NSYMUPLA123W**
Coupling frame kit 35 mm	320	1500	**NSYMUPLA153W**
Coupling frame kit 35 mm	420	500	**NSYMUPLA54W**
Coupling frame kit 35 mm	420	750	**NSYMUPLA74W**
Coupling frame kit 35 mm	420	1000	**NSYMUPLA104W**
Coupling frame kit 35 mm	420	1250	**NSYMUPLA124W**
Coupling frame kit 35 mm	420	1500	**NSYMUPLA154W**
Coupling frame kit 35 mm	420	2000	**NSYMUPLA204W**
Coupling frame kit 35 mm	620	750	**NSYMUPLA76W**
Coupling frame kit 35 mm	620	1250	**NSYMUPLA126W**
Coupling frame kit 35 mm	620	1500	**NSYMUPLA156W**

Vertical coupling kit



NSYUVPLA

- For coupling two enclosures on top of one another.
- Kit made up of 3.5 m of adhesive seal and the fixings required for mounting.
- Ingress protection rating: IP55 at the coupling point

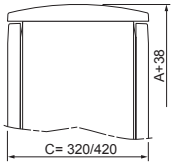
Characteristics	References
Vertical coupling kit	**NSYUVPLA**

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Polyester floor-standing enclosures

Canopy

- It can be installed in all enclosure models.
- High resistance to impacts, temperature and bad weather.
- Increases the height (A) of the enclosure by 38 mm, without modifying its width or depth.
- Material: Polyester reinforced with fibreglass
- Colour: RAL 7035 grey
- Installation: Essential for outdoor use

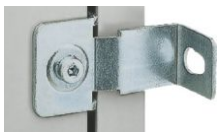


Supply:
Delivered with the fixings required for installation

NSYTJPLA53G

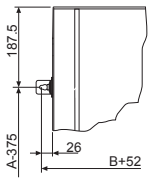
Characteristics	Width (mm)	Depth (mm)	References
Canopy	500	320	**NSYTJPLA53G**
Canopy	500	420	**NSYTJPLA54G**
Canopy	750	320	**NSYTJPLA73G**
Canopy	750	420	**NSYTJPLA74G**
Canopy	750	620	**NSYTJPLA76G**
Canopy	1000	320	**NSYTJPLA103G**
Canopy	1000	420	**NSYTJPLA104G**
Canopy	1250	320	**NSYTJPLA123G**
Canopy	1250	420	**NSYTJPLA124G**
Canopy	1250	620	**NSYTJPLA126G**

Wall fixing lugs


NSYFMPLA

Drilling positions and marks inside the side panels.
- Material: Carbon steel with passivated zinc-coated
- Maximum load: 180 kg including weight of enclosure

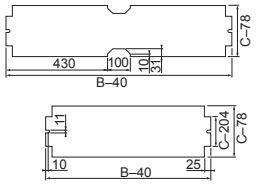
Fixing: Fixing on the sides by four or six lugs in horizontal position (six lugs for enclosures with height ≥ 1000 mm)
10 mm fixing distance on the rear of the enclosure plane



Supply:
Set of six lugs and fixings

Characteristics	References
Wall fixing lugs	**NSYFMPLA**

PLAZ PLAZT Cable entry plate



- Easy drilling in specific customised version.
- Incompatibility with: Adapter plates, step slides, internal door and chassis for modular distribution.
- Material: Polyester reinforced with fibreglass
- Thickness: 4 mm

Supply:
Delivered with the fixings required for installation


NSYECPLAZ53G

Characteristics	Width (mm)	Depth (mm)	References
Cable entry plate	500	320	**NSYECPLAZ53G**
Cable entry plate	500	420	**NSYECPLAZ54G**
Cable entry plate	750	320	**NSYECPLAZ73G**
Cable entry plate	750	420	**NSYECPLAZ74G**
Cable entry plate	750	620	**NSYECPLAZ76G**
Cable entry plate	1000	320	**NSYECPLAZ103G**
Cable entry plate	1000	420	**NSYECPLAZ104G**
Cable entry plate	1250	320	**NSYECPLAZ123G**
Cable entry plate	1250	420	**NSYECPLAZ124G**
Cable entry plate	1250	620	**NSYECPLAZ126G**

Renovation and anti graffiti paint

Supply: NSYAUPG1G
The 1 kg reference includes one pot with 800 g of base paint and 200 g of hardener
(It is enough to paint a surface of around 5 m²)

Supply: NSYAUPG5G
The 5 kg reference includes one pot with 4 kg of base paint and 1 kg of hardener
(It is enough to paint a surface of around 25 m²)

- Paint kit with two components (base 80 % + hardener 20 %)
- Specially designed for polyester enclosures, for their renovation and/or as prevention to allow easy removal of graffiti.
- Colour: RAL 7035 grey


NSYAUPG1G

Characteristics	References
Renovation and anti graffiti paint	**NSYAUPG1G**
Renovation and anti graffiti paint	**NSYAUPG5G**

Supply:
1 kg

- Solvent bottles to be used as a paint thinner or to clean brushes.

Characteristics	References
Renovation and anti graffiti paint solvent	**NSYAUPGS**

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Polyester floor-standing enclosures



Characteristics	ZA plinths
	• The frontal parts of the plinth (front and rear) have two stainless steel screws protected by a plastic cap; these screws, which can be accessed from the outside, make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation. • In stacked position, the bottom plinth can be partially buried. • It is provided with one or two reinforcement cross rails, adjustable to adapt to the position of the cables.
Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey
Ingress protection rating	IP44
Mechanical protection rating	IK10
Fixing	Four floor attachment points; The symmetry of the parts helps prevent incorrect assembly
Supply	The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths

For floor-standing enclosure			Plinth		Cable gland area		Height 200 mm
Width (mm)	Depth (mm)	References	Width (mm)	Depth (mm)	Width (mm)	Depth (mm)	References
500	320	**NSYPLA(T)●53G**	494	250	360	205	**NSYZA253G**
750	320	**NSYPLA(T)●73G**	744	250	610	205	**NSYZA273G**
1000	320	**NSYPLA(T)●103G**	994	250	860	205	**NSYZA2103G**
1250	320	**NSYPLA(T)●123G**	1244	250	1100	205	**NSYZA2123G**
500	420	**NSYPLA(T)●54G**	494	350	360	305	**NSYZA254G**
750	420	**NSYPLA(T)●74G**	744	350	610	305	**NSYZA274G**
1000	420	**NSYPLA(T)●104G**	994	350	860	305	**NSYZA2104G**
1250	420	**NSYPLA(T)●124G**	1244	350	1110	305	**NSYZA2124G**
750	620	**NSYPLA(T)●76G**	744	550	610	505	**NSYZA276G**
1250	620	**NSYPLA(T)●126G**	1244	550	1110	505	**NSYZA2126G**

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Polyester floor-standing enclosures

Cable supporting cross rail


NSYAC320

- Description: The lateral sides of the plinth are provided with bosses for attaching cross rails with cut-out profiles, for supporting cables.

Supply:
the reference of the cross rail includes all the elements required for assembly.

Characteristics	For plinth	For plinth	References
Cable supporting cross rail	NSYZA253G	NSYZA254G	**NSYAC320**
Cable supporting cross rail	NSYZA273G	NSYZA274G	**NSYAC560**
Cable supporting cross rail	NSYZA2103G	NSYZA2104G	**NSYAC840**
Cable supporting cross rail	NSYZA2123G	NSYZA2124G	**NSYAC1080**

Kit for IP54


NSYAEPZA

- Description: Makes it possible to obtain IP 54 for the plinth and the plinth enclosure connection..
- Standard: IEC 61439-1

Characteristics	References
Kit for IP54	**NSYAEPZA**

Feet for partially buried installation


NSYAEBFZ

Description: Allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm. Possibility of horizontal adjustment of the plinth.

Supply:
the kit is made up of four feet and fixings.

Characteristics	References
Feet for partially buried installation	**NSYAEBFZ**

N plinths


NSYZNPLA53G

Designed to be installed under the closed bottom enclosures (version PLA or PLAT).

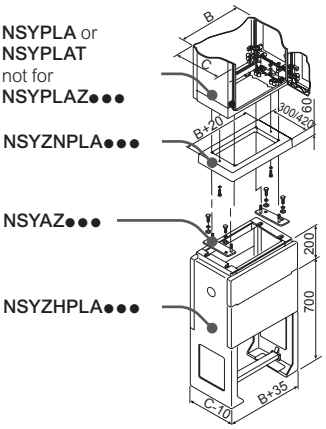
- Material: Polyester reinforced with fibreglass
- Colour: RAL 7035 grey
- Height 60 mm

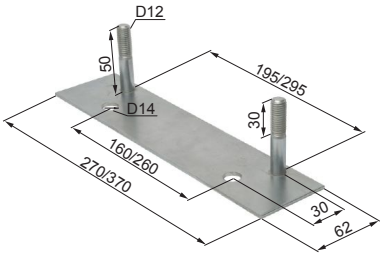
Supply:
Delivered with fixings required for installation

Characteristics	References
N plinths	**NSYZNPLA53G**
N plinths	**NSYZNPLA73G**
N plinths	**NSYZNPLA103G**
N plinths	**NSYZNPLA123G**
N plinths	**NSYZNPLA54G**
N plinths	**NSYZNPLA74G**
N plinths	**NSYZNPLA104G**
N plinths	**NSYZNPLA124G**

Connectors between plinths

Description: Designed to allow the adaptation of a closed bottom enclosure
+ N plinth on a H-type partially buried plinth.





Supply:
two parts for adapting the centre-to-centre distances.


NSYAZ3PLA

Characteristics	For floor-standing enclosure Depth (mm)	References
Linking parts for N plinth on 320 mm H plinth	320	**NSYAZ3PLA**
Linking parts for N plinth on 420 mm H plinth	420	**NSYAZ4PLA**

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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester floor-standing enclosures



(1) For enclosures using ZZ or ZH type plinths the coupling kit to use is the **NSYMUPLA●●●W**.

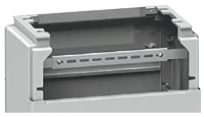
Characteristics	ZZ plinths (1)
	• The frontal parts (front and rear) are removed from the inside. Removing them makes it easier to install the cables. • The 500 mm plinth can be partially buried. • It is provided with one or two reinforcement cross rails, adjustable to adapt to the position of the cables.
Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey
Ingress protection rating	IP44
Mechanical protection rating	IK10
Fixing	Four floor attachment points; The symmetry of the parts helps prevent incorrect assembly
Supply	The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth

For floor-standing enclosure			Plinth		Cable gland area		Height 200 mm	Height 500 mm
Width (mm) (B)	Depth (mm) (C)	References	Width (mm)	Depth (mm)	Width (mm)	Depth (mm)	References	References
500	320	**NSYPLAZ(T)●53G**	535	310	419	252	**NSYZZ253G**	**NSYZZ553G**
750	320	**NSYPLAZ(T)●73G**	785	310	669	252	**NSYZZ273G**	**NSYZZ573G**
1000	320	**NSYPLAZ(T)●103G**	1035	310	919	252	**NSYZZ2103G**	**NSYZZ5103G**
1250	320	**NSYPLAZ(T)●123G**	1285	310	1169	252	**NSYZZ2123G**	**NSYZZ5123G**
500	420	**NSYPLAZ(T)●54G**	535	410	419	352	**NSYZZ254G**	**NSYZZ554G**
750	420	**NSYPLAZ(T)●74G**	785	410	669	352	**NSYZZ274G**	**NSYZZ574G**
1000	420	**NSYPLAZ(T)●104G**	1035	410	919	352	**NSYZZ2104G**	**NSYZZ5104G**
1250	420	**NSYPLAZ(T)●124G**	1285	410	1169	352	**NSYZZ2124G**	**NSYZZ5124G**
750	620	**NSYPLAZ(T)●76G**	785	610	669	552	**NSYZZ276G**	-
1250	620	**NSYPLAZ(T)●126G**	1285	610	1169	552	**NSYZZ2126G**	-

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester floor-standing enclosures

Cable supporting cross rail


NSYAC360

- Description: The lateral sides of the plinths are provided with bosses for attaching cross rails with cut-out profiles, for supporting cables.

Supply:
the reference of the cross rail includes all the elements required for assembly

Characteristics	For plinth	For plinth	For plinth	For plinth	References
Cable supporting cross rail	NSYZZ253G	NSYZZ254G	NSYZZ553G	NSYZZ554G	**NSYAC360**
Cable supporting cross rail	NSYZZ273G	NSYZZ274G	NSYZZ573G	NSYZZ574G	**NSYAC600**
Cable supporting cross rail	NSYZZ2103G	NSYZZ2104G	NSYZZ5103G	NSYZZ5104G	**NSYAC840**
Cable supporting cross rail	NSYZZ2123G	NSYZZ2124G	NSYZZ5123G	NSYZZ5124G	**NSYAC1120**

Outside opening kit


NSYAELZ

- Description: The 200 mm front part of the 200 and 500 mm plinths can be opened from the outside, after installing a kit made up of two locks with double bar insert.

Characteristics	References
Outside opening kit	**NSYAELZ**

Buriable H plinths


NSYZHPLA53G

- Front panel with a height of 170 mm, retractable, providing easy access to the inside.
- Fixed front panel with a height of 305 mm, corresponding to the finished floor height area.
- The height above the floor after built-in varies between 200 and 500 mm.
- A metal rail helps to fix the entry cables.
- Lateral uprights with pre-knock-out auxiliary output with Ø Pg 36 (48 mm).
- A pre-knock-out area is provided at the bottom of the lateral uprights for cable entry, if necessary.
- Material: Polyester reinforced with fibreglass
- Colour: RAL 7035 grey

Supply:
Delivered with the fixings required for installation

Note:
Dimensions, see page 222


NSYZHPLA53G

Characteristics	References
Buriable H plinths	**NSYZHPLA53G**
Buriable H plinths	**NSYZHPLA73G**
Buriable H plinths	**NSYZHPLA103G**
Buriable H plinths	**NSYZHPLA123G**
Buriable H plinths	**NSYZHPLA54G**
Buriable H plinths	**NSYZHPLA74G**
Buriable H plinths	**NSYZHPLA104G**
Buriable H plinths	**NSYZHPLA124G**

Floor-standing frame

- Frame for direct fixing on the floor for installing open bottom enclosures (version PLAZ or PLAZT).
- Material: Passivated zinc-coated steel

Supply:
Delivered with fixings required for installation

Note:
Dimensions, see page 222


NSYMFPLAZ53

Characteristics	References
Floor-standing frame	**NSYMFPLAZ53**
Floor-standing frame	**NSYMFPLAZ73**
Floor-standing frame	**NSYMFPLAZ103**
Floor-standing frame	**NSYMFPLAZ123**
Floor-standing frame	**NSYMFPLAZ54**
Floor-standing frame	**NSYMFPLAZ74**
Floor-standing frame	**NSYMFPLAZ104**
Floor-standing frame	**NSYMFPLAZ124**
Floor-standing frame	**NSYMFPLAZ76**
Floor-standing frame	**NSYMFPLAZ126**

Floor-fixing studs


NSYFSPLAZ

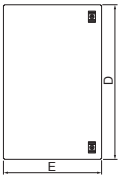
- Description: Set of four threaded parts and fixings, for fixing the enclosures on concrete plinths.

Characteristics	References
Floor-fixing studs	**NSYFSPLAZ**

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Polyester floor-standing enclosures

Internal door



- Designed for direct installation in enclosures with sealed bottom part. In the enclosures with the bottom part open, installation can be
- performed by ordering the necessary adapter plates, ref. **NSYPTZ●●●**.
- Two depthwise mounting positions (two positions for depthwise installation) according to the chosen M8 impressions, on the top and bottom parts of the enclosure, for fixing.
- Lock with 5 mm double bar inserts.
- Incompatibility with: Modular distribution chassis, 19" chassis, cable entry plate and door retainer, ref. **NSYRETPLAU**.
- Material: Aluminium
- Colour: RAL 7035 grey

Supply:
Delivered with M8 brass inserts and fixings

Note:
Dimensions, see page 222





Dimensions		Internal door dimensions		
Height (mm)	Width (mm)	D (mm)	E (mm)	References
500	500	398	398	**NSYPAPLA55G**
500	750	398	648	**NSYPAPLA57G**
500	1000	398	796 (2 x 398)	2 x **NSYPAPLA55G**
500	1250	398	1046 (398 + 648)	**NSYPAPLA55G** + **NSYPAPLA57G**
750	500	648	398	**NSYPAPLA75G**
750	750	648	648	**NSYPAPLA77G**
750	1000	648	796 (2 x 398)	2 x **NSYPAPLA75G**
750	1250	648	1046 (398 + 648)	**NSYPAPLA75G** + **NSYPAPLA77G**
1000	500	898	398	**NSYPAPLA105G**
1000	750	898	648	**NSYPAPLA107G**
1000	1000	898	796 (2 x 398)	2 x **NSYPAPLA105G**
1000	1250	898	1046 (398 + 648)	**NSYPAPLA105G** + **NSYPAPLA107G**
1250	500	1148	398	**NSYPAPLA125G**
1250	750	1148	648	**NSYPAPLA127G**
1250	1000	1148	796 (2 x 398)	2 x **NSYPAPLA125G**
1250	1250	1148	1046 (398 + 648)	**NSYPAPLA125G** + **NSYPAPLA127G**
1500	500	1398	398	**NSYPAPLA155G**
1500	750	1398	648	**NSYPAPLA157G**
1500	1000	1398	796 (2 x 398)	2 x **NSYPAPLA155G**
1500	1250	1398	1046 (398 + 648)	**NSYPAPLA155G** + **NSYPAPLA157G**

Door retainer

Supply:
Delivered with the fixings required for installation

Note:
ref. **NSYRETPLAU** is incompatible with internal doors, modular distribution chassis, step slides, adapter plates and cable entry plates. In the event of incompatibility, use ref. **NSYRETPLA**.

- Designed to adapt directly to the enclosure
- Can be installed on a door opening to the left or right indistinctly
- Material: Galvanised steel

Characteristics	References
Door retainer, PLA, PLAZ, PLAT versions, opening to 110°	**NSYRETPLA**
Door retainer, PLA, PLAZ, PLAT, PLAZT versions*, with 2 positions, 90° and 120°	**NSYRETPLAU**


NSYRETPLA


NSYRETPLAU

Door switch


NSYSNLPLA

- NC + NO switch.
- Incompatible with the rear door and modular distribution chassis

Supply:
Switch, fixing bracket and fixings

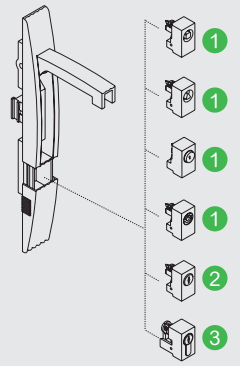
Characteristics	References
Door switch	**NSYSNLPLA**

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Polyester floor-standing enclosures

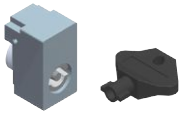
Lock with handle

- Ergonomic locking system with pivoting handle installed as standard on enclosures with ventilated canopy and/or open bottom part, with a 5 mm double bar insert block.
- Material: PA6
- Colour: RAL 7035 grey



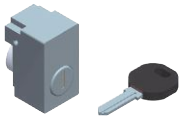
1 Block mit Formeinsatz.
2 Block mit voll Zylinder.
3 Block mit halb Zylinder.

Options for changing the form-insert blocks


NSYINS61

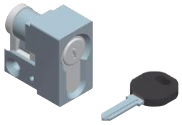
Characteristics	References
6 mm square insert	**NSYINS61**
7 mm square insert	**NSYINS71**
8 mm square insert	**NSYINS81**
6.5 mm triangular insert	**NSYINT61**
8 mm triangular insert	**NSYINT81**
Push-button	**NSYTSPLA**
Double bar	**NSYINDB51**

Options for changing the blocks with cylindrical barrels


NSYIN405E1

Characteristics	References
405E key lock	**NSYIN405E1**
421E key lock	**NSYIN421E1**
455 key lock	**NSYIN4551**
1242E key lock	**NSYIN1242E1**
1332E key lock	**NSYIN1332E1**
2124E key lock	**NSYIN2124E1**
2131A key lock	**NSYIN2131A1**
2132A key lock	**NSYIN2132A1**
2331A key lock	**NSYIN2331A1**
2433A key lock	**NSYIN2433A1**
2452E key lock	**NSYIN2452E1**
3113A key lock	**NSYIN3113A1**
3122E key lock	**NSYIN3122E1**
3123A key lock	**NSYIN3123A1**
3131A1 key lock	**NSYIN3131A1**
3133A key lock	**NSYIN3133A1**
3422E key lock	**NSYIN3422E1**
3432E key lock	**NSYIN3432E1**
6101 key lock	**NSYIN6101**

Options for changing the blocks with semi-cylindrical barrels


NSYIN1242E2

Characteristics	References
Spacial SF/SM 1242E key lock	**NSYIN1242E2**
Spacial SF/SM Adapter for DIN cylinder	**NSYINDIN2**
Spacial SF/SM JIS key lock	**NSYINKJIS2**
Spacial SF/SM Reinforced key lock	**NSYINKR2**
Spacial SF/SM FAC key lock	**NSYINKFAC2**

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Options for changing the handle lock

- Changing the handle for a handle including a padlocking device (Ø 10 mm) allowing the handle to be locked. The handle is delivered without barrel or insert block.


NSYCBCMPLAG

Characteristics	References
Options for changing the handle lock	**NSYCBCMPLAG**

Options for changing the handle lock

- Spare handle lock without barrel or insert blocks.
  The insert or barrel are to be chosen from the option table.


NSYCBCMPLAG

Characteristics	References
Options for changing the handle lock	**NSYEBMPLAG**

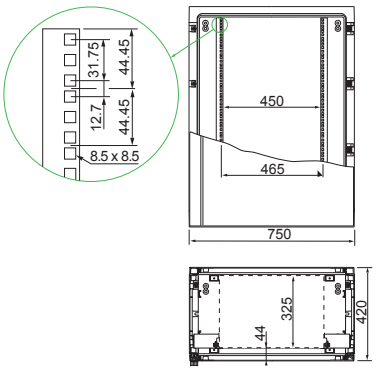
Type of lock	Insert references	Key references
5 mm double bar ⌾	NSYTDB5PLA	**NSYLDB5**
6 mm □	NSYTC6CRN	**NSYLC7**
7 mm □	NSYTC7CRN	**NSYLC7**
8 mm □	NSYTC8CRN	**NSYLC8**
6.5 mm ▲	NSYTT6CRN	**NSYLT8**
7 mm ▲	NSYTT7CRN	**NSYLT8**
8 mm ▲	NSYTT8CRN	**NSYLT8**

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Polyester floor-standing enclosures

19'' fixed chassis

Installation: For heights from 750 to 1500 mm, the installation requires ordering one batch of two matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure



- Very sturdy 19" metal chassis, designed for installation in enclosures with a width of 750 and 1250 mm.
  In the 1250 mm enclosure, the chassis is installed in the 750 mm part with an intermediate support, ref. **NSYSBPLA**.
- These chassis can be used as partial mounting plates in enclosures with higherthan nominal height.
- Incompatible with the internal doors and the step slides.
- Fixed chassis made up of two uprights with fixings
- Material: Galvanised steel
- Finish: Epoxy polyester paint
- Colour: RAL 7035 grey
- Maximum load: 3 kg per unit

Note:
Dimensions, see page 225

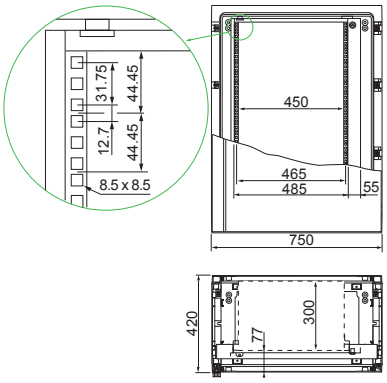

NSYBRF8PLAG

Characteristics	Height (mm)	Width (mm)	# of units	References
19'' fixed chassis	500	750	8	**NSYBRF8PLAG**
19'' fixed chassis	750	750	12	**NSYBRF12PLAG**
19'' fixed chassis	1000	750	17	**NSYBRF17PLAG**
19'' fixed chassis	1250	750	21	**NSYBRF21PLAG**
19'' fixed chassis	1500	750	26	**NSYBRF26PLAG**
19'' fixed chassis	2000	750	2 x 17	2 x **NSYBRF17PLAG** + **NSYPTZ4**
Batch of two uprights	750	750	12	**NSYSPLA75**
Batch of two uprights	1000	750	17	**NSYSPLA100**
Batch of two uprights	1250	750	21	**NSYSPLA125**
Batch of two uprights	1500	750	26	**NSYSPLA150***
Batch of two uprights	2000	750	2 x 17	2 x **NSYSPLA100**

* Not compatible with **NSYCAAPVHD**.

19'' swing chassis

Installation: For heights from 750 to 1500 mm, the installation requires ordering one batch of two matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure



- Very sturdy 19" metal chassis, designed for installation in enclosures with a width of 750 and 1250 mm.
  In the 1250 mm enclosure, the chassis is installed in the 750 mm part with an intermediate support, ref. **NSYSBPLA**.
- These chassis can be used as partial mounting plates in enclosures with higherthan nominal height.
- Incompatible with the internal doors and the step slides.
- Swing chassis opening to 120° with 5 mm double bar key lock.
- Material: Galvanised steel
- Finish: Swing part: Epoxy polyester paint
- Colour: RAL 7035 grey (swing part only)
- Maximum load: 3 kg per unit

Note:
Dimensions, see page 225

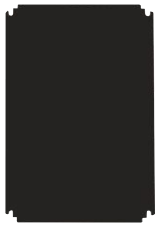

NSYBRP7PLAG

Characteristics	Height (mm)	Width (mm)	# of units	References
19'' swing chassis	500	750	7	**NSYBRP7PLAG**
19'' swing chassis	750	750	11	**NSYBRP11PLAG**
19'' swing chassis	1000	750	16	**NSYBRP16PLAG**
19'' swing chassis	1250	750	20	**NSYBRP20PLAG**
19'' swing chassis	1500	750	25	**NSYBRP25PLAG**
19'' swing chassis	2000	750	2 x 16	2 x **NSYBRP16PLAG**
Batch of two uprights	750	750	11	**NSYSPLA75**
Batch of two uprights	1000	750	16	**NSYSPLA100**
Batch of two uprights	1250	750	20	**NSYSPLA125**
Batch of two uprights	1500	750	25	**NSYSPLA150**
Batch of two uprights	2000	750	2 x 16	2 x **NSYSPLA100**

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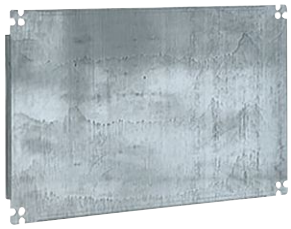
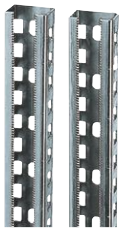
Polyester floor-standing enclosures

Note:
Dimensions, see page 223

	Metallic mounting plate		Insulating mounting plate	
				
Characteristics	**Plain mounting plate**	**Telequick mounting plate**		
	• Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 214). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately). • In the two door enclosures, it is possible to install one complete mounting plate or two individual mounting plates.	• Grille with 11 x 26 mm drill holes, with a step of 15 x 30 mm, for direct installation, with clip nuts, of all the devices with fixing at 2, 3 or 4 points, by screws with diameters of 3, 4, 5 or 6 mm. • Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 214). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).	• Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 214). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately). • In the two door enclosures, it is possible to install one complete mounting plate or two individual mounting plates.	
Material	Galvanised sheet steel	Galvanised steel	Bakelite	Polyester
Finish	–	–	–	–
Colour	–	–	–	–
Thickness	2.5 mm	–	4 mm	• 4 mm up to 700 mm height • 5 mm from 800 mm height
Maximum load	150 kg/m²	150 kg/m²	100 kg/m²	100 kg/m²
Supply	One mounting plate	One mounting plate	One mounting plate	One mounting plate

Dimensions					Dimensions					
Height (A) (mm)	Width (B) (mm)	H (mm)	Surface (dm²)	References	E (mm)	D (mm)	Surface (dm²)	References	References	References
500	500	-	14	**NSYPMM55**	350	350	13	**NSYPMR55**	**NSYPMB55**	**NSYPMA55**
500	750	-	24	**NSYPMM75**	350	600	23	**NSYPMR57**	**NSYPMB75**	**NSYPMA75**
500	1000	437.5	32	**NSYPMM510**	350	2 x 350	26	2 x **NSYPMR55**	**NSYPMB510**	**NSYPMA510**
500	1250	-	38	**NSYPMM55** + **NSYPMM75**	350	350 + 600	36	**NSYPMR55** + **NSYPMR57**	**NSYPMB55** + **NSYPMB75**	**NSYPMA55** + **NSYPMA75**
750	500	-	24	**NSYPMM75**	600	350	23	**NSYPMR75**	**NSYPMB75**	**NSYPMA75**
750	750	-	40	**NSYPMM77**	600	600	38	**NSYPMR77**	**NSYPMB77**	**NSYPMA77**
750	1000	437.5	54	**NSYPMM710**	600	2 x 350	46	2 x **NSYPMR75**	**NSYPMB710**	**NSYPMA710**
750	1250	687.5	70	**NSYPMM712**	600	350 + 600	61	**NSYPMR75** + **NSYPMR77**	**NSYPMB712**	**NSYPMA712**
1000	500	-	33	**NSYPMM105**	850	350	32	**NSYPMR105**	**NSYPMB105**	**NSYPMA105**
1000	750	-	55	**NSYPMM107**	850	600	54	**NSYPMR107**	**NSYPMB107**	**NSYPMA107**
1000	1000	437.5	74	**NSYPMM1010**	850	2 x 350	64	2 x **NSYPMR105**	**NSYPMB1010**	**NSYPMA1010**
1000	1250	687.5	96	**NSYPMM1012**	850	350 + 600	86	**NSYPMR105** + **NSYPMR107**	**NSYPMB1012**	**NSYPMA1012**
1250	500	-	42	**NSYPMM125**	1100	350	42	**NSYPMR125**	**NSYPMB125**	**NSYPMA125**
1250	750	-	70	**NSYPMM127**	1100	600	70	**NSYPMR127**	**NSYPMB127**	**NSYPMA127**
1250	1000	437.5	96	**NSYPMM1210**	1100	2 x 350	84	2 x **NSYPMR125**	**NSYPMB1210**	**NSYPMA1210**
1250	1250	687.5	124	**NSYPMM1212**	1100	350 + 600	112	**NSYPMR125** + **NSYPMR127**	**NSYPMB1212**	**NSYPMA1212**
1500	500	-	51	**NSYPMM155**	1350	350	51	**NSYPMR155**	**NSYPMB155**	-
1500	750	-	85	**NSYPMM157**	1350	600	85	**NSYPMR157**	**NSYPMB157**	-
1500	1000	437.5	118	**NSYPMM1510**	1350	2 x 350	102	2 x **NSYPMR155**	**NSYPMB1510**	-
1500	1250	687.5	152	**NSYPMM1512**	1350	350 + 600	136	**NSYPMR155** + **NSYPMR157**	**NSYPMB1512**	-
2000	750	-	115	**NSYPMM207**	2 x 850	2 x 600	108	2 x **NSYPMR107**	2 x **NSYPMB107**	2 x **NSYPMA107**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

	Side mounting plates			Partial plain mounting plate		Technical uprights		Anti burglary accessory	
									
	• Polyester mounting plates fixed to the sides of the enclosure for additional installations. Installation on the M8 bosses by adding inserts, ref. **NSYTEX8**.			• Direct fixing on the uprights, with the notched sliding nuts or pivoting nuts, see common accessories section.		• Supports for fixing rails, perforated grilles and plain partial mounting plates. • Details in the common accessory section. • Fixing at the rear on the M8 inserts or on the step slides.		• Anti burglary accessory for polyester outdoor Heavy Duty in accordance with ENV 1627-1630:2011 Class II. It keeps the Insulation Class II according to IEC 61439-1:2011.	
	Polyester			Galvanised sheet steel		Zinc-coated steel		Steel with anti-corrosive coating	
	–			–		–		Structured finish, 100 % polyester powder	
	–			–		–		RAL 7035 grey	
	• 4 mm up to 750 mm height • 5 mm from 800 mm height			2.5 mm		2 mm		–	
	100 kg/m²			150 kg/m²					
	Reference by unit. Order by multiples of 2			One mounting plate		Two technical uprights		One anti burglary frame	
	Enclosure depth 320 mm	Enclosure depth 420 mm	Enclosure depth 620 mm	Height 247 mm (H)	Height 397 mm (H)			Depth 420 mm	Depth 620 mm
	References	References	References	References	References	Dimensions (mm)	References	References	References
	NSYPMLA53	**NSYPMLA54**	-	-	-	-	-	-	-
	NSYPMLA53	**NSYPMLA54**	-	**NSYSPMP2575**	-	-	-	-	-
	NSYPMLA53	**NSYPMLA54**	-	**NSYSPMP25100**	**NSYSPMP40100**	-	-	-	-
	NSYPMLA53	**NSYPMLA54**	-	-	-	-	-	-	-
	NSYPMLA73	**NSYPMLA74**	-	-	-	625	**NSYTVR7**	-	-
	NSYPMLA73	**NSYPMLA74**	-	**NSYSPMP2575**	-	625	**NSYTVR7**	**NSYBGN774HD**	**NSYBGN776HD**
	NSYPMLA73	**NSYPMLA74**	-	**NSYSPMP25100**	**NSYSPMP40100**	625	**NSYTVR7**	-	-
	NSYPMLA73	**NSYPMLA74**	-	-	-	625	**NSYTVR7**	-	-
	NSYPMLA103	**NSYPMLA104**	-	-	-	875	**NSYTVR10**	**NSYBGN1054HD**	-
	NSYPMLA103	**NSYPMLA104**	-	**NSYSPMP2575**	-	875	**NSYTVR10**	**NSYBGN1074HD**	-
	NSYPMLA103	**NSYPMLA104**	-	**NSYSPMP25100**	**NSYSPMP40100**	875	**NSYTVR10**	-	-
	NSYPMLA103	**NSYPMLA104**	-	-	-	875	**NSYTVR10**	-	-
	NSYPMLA123	**NSYPMLA124**	**NSYPMLA126**	-	-	1125	**NSYTVR125**	**NSYBGN1254HD**	-
	NSYPMLA123	**NSYPMLA124**	-	**NSYSPMP2575**	-	1125	**NSYTVR125**	**NSYBGN1274HD**	**NSYBGN1276HD**
	NSYPMLA123	**NSYPMLA124**	-	**NSYSPMP25100**	**NSYSPMP40100**	1125	**NSYTVR125**	-	-
	NSYPMLA123	**NSYPMLA124**	-	-	-	1125	**NSYTVR125**	**NSYBGN12124HD**	**NSYBGN12126HD**
	-	-	-	-	-	1375	**NSYTVR15**	-	-
	-	-	-	**NSYSPMP2575**	-	1375	**NSYTVR15**	**NSYBGN1574HD**	**NSYBGN1576HD**
	-	-	-	**NSYSPMP25100**	**NSYSPMP40100**	1375	**NSYTVR15**	-	-
	-	-	-	-	-	1375	**NSYTVR15**	**NSYBGN15124HD**	**NSYBGN15126HD**
	-	2 x **NSYPMLA104**	-	**NSYSPMP2575**	-	1875 Note: Enclosures with widths of 1000 and 1250 allow the installation of four uprights to integrate two mounting plates of 500 mm or of 500 and 750 mm.	2 x **NSYTVR10**	**NSYBGN2074HD**	-

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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester floor-standing enclosures

Modular distribution chassis

- Chassis for modular switchgear, installed directly in the sealed enclosures (PLA version). For installation in enclosures with open bottom part (PLAZ version) it is necessary to use a set of adapter plates (ref. **NSYPTZ●●●**).
- Chassis made up of cover plates on a rigid structure.
- Quick installation without fixings.
- Distance between rail and front panel with adjustable depth from 40 to 85 mm.
- System for identifying electrical circuits supplied.
- Neutral/earth strip: 2 x 16 mm² + 5 x 6 mm² included in the standard offer.
- Incompatibility with: Cable entry plate, internal door, door switch and door retainer (ref. **NSYRETPLAU**).
- Material: Rigid structure: Galvanised steel, Cover plates: Self-extinguishing insulating
- Colour: Cover plates: RAL 7035 grey

Note:
Dimensions, see page 213
Other modular distribution accessories on page 214



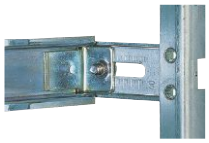
Dimensions (mm)		No. of doors	No. of rows	Rows for module	No. of modules 18 mm	No. of plates	References
Height (A)	Width (B)						
750	500	1	4	4	76	-	**NSYDLP76G**
750	500	1	4	3	57	1	**NSYDLP57G**
750	750	1	4	4	132	-	**NSYDLP132G**
750	750	1	4	3	99	1	**NSYDLP99G**
750	1000	2	4 + 4	4 + 4	152	-	2 x **NSYDLP76G**
750	1000	2	4 + 4	3 + 3	114	1 + 1	2 x **NSYDLP57G**
750	1250	2	4 + 4	4 + 4	208	-	**NSYDLP76G** + **NSYDLP132G**
750	1250	2	4 + 4	3 + 3	156	1 + 1	**NSYDLP57G** + **NSYDLP99G**
1000	500	1	6	6	114	-	**NSYDLP114G**
1000	500	1	6	5	95	1	**NSYDLP95G**
1000	750	1	6	6	198	-	**NSYDLP198G**
1000	750	1	6	5	165	1	**NSYDLP165G**
1000	1000	2	6 + 6	6 + 6	228	-	2 x **NSYDLP114G**
1000	1000	2	6 + 6	5 + 5	190	1 + 1	2 x **NSYDLP95G**
1000	1250	2	6 + 6	6 + 6	312	-	**NSYDLP114G** + **NSYDLP198G**
1000	1250	2	6 + 6	5 + 5	260	1 + 1	**NSYDLP95G** + **NSYDLP165G**
1250	500	1	7	7	133	-	**NSYDLP133G**
1250	500	1	7	6	114	1	**NSYDLP114PG**
1250	750	1	7	7	231	-	**NSYDLP231G**
1250	750	1	7	6	198	1	**NSYDLP198PG**
1250	1000	2	7 + 7	7 + 7	266	-	2 x **NSYDLP133G**
1250	1000	2	7 + 7	6 + 6	228	1 + 1	2 x **NSYDLP114PG**
1250	1250	2	7 + 7	7 + 7	364	-	**NSYDLP133G** + **NSYDLP231G**
1250	1250	2	7 + 7	6 + 6	312	1 + 1	**NSYDLP114PG** + **NSYDLP198PG**
1500	500	1	9	9	171	-	**NSYDLP171G**
1500	500	1	9	8	152	1	**NSYDLP152G**
1500	750	1	9	9	297	-	**NSYDLP297G**
1500	750	1	9	8	264	1	**NSYDLP264G**
1500	1000	2	9 + 9	9 + 9	342	-	2 x **NSYDLP171G**
1500	1000	2	9 + 9	8 + 8	304	-	2 x **NSYDLP152G**
1500	1250	2	9 + 9	9 + 9	468	1 + 1	**NSYDLP171G** + **NSYDLP297G**
1500	1250	2	9 + 9	8 + 8	416	1 + 1	**NSYDLP152G** + **NSYDLP264G**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester floor-standing enclosures

Modular distribution chassis





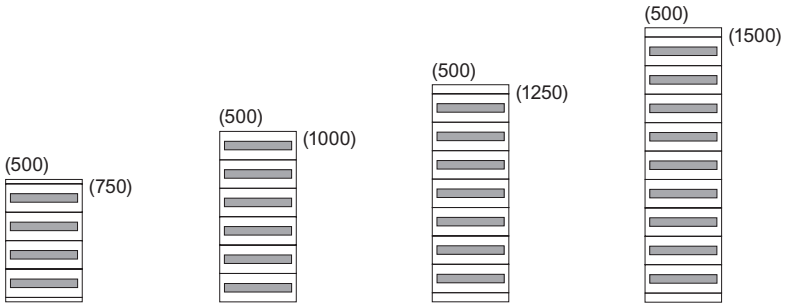
Details of the depth adjustment

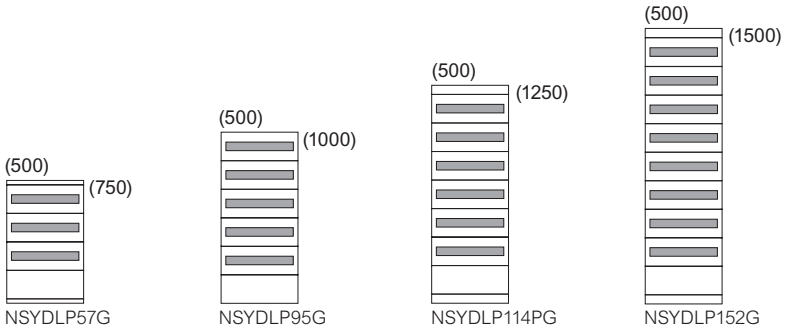


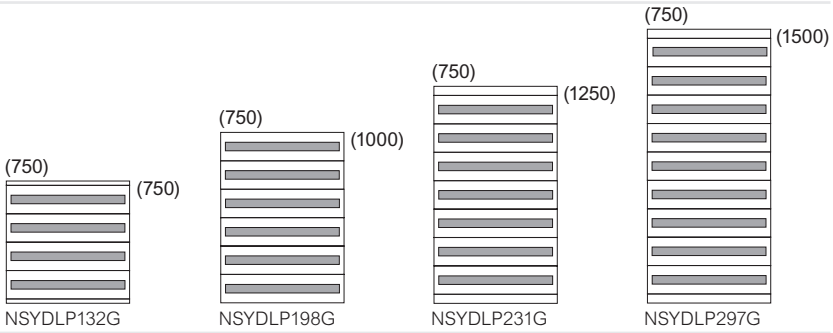
Detail from front panel mounting.

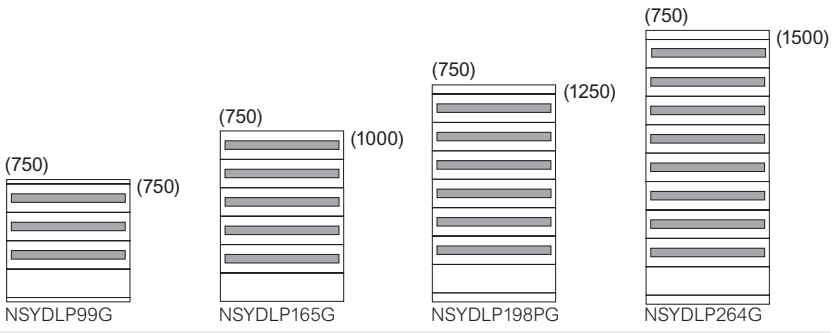


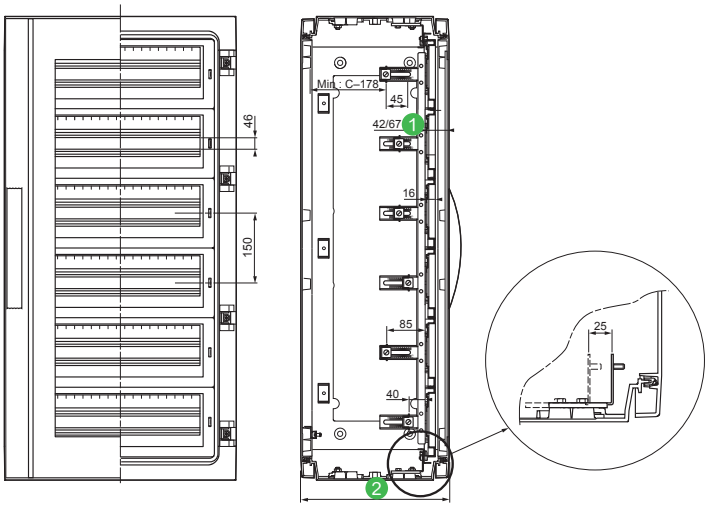
Detail from the circuitmarking system.











1 Dimensions of 42 or 67 mm or a pitch of 25 mm, according to the M8 boss chosen for the installation. See details in the enlarged image on the right. In the enclosures with glazed doors, the two dimensions are reduced by 5 mm.

2 C = Depth of the enclosure.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester floor-standing enclosures

Step slides

- Set of four step slides with brackets allowing continuous depth adjustment of the mounting plate, with a pitch of 25 mm.
- Designed for direct installation in the enclosures with sealed bottom part (versions PLA or PLAT).
- In the enclosures with open bottom part (versions PLAZ or PLAZT), installation is made possible by adding the relevant adapter plates.
- Incompatibility with: Internal door, modular distribution chassis, 19" chassis, cableentry plate and door retainer, ref. **NSYRETPLAU**.
- Material: Bracket with steel M8 stud on aluminium rail
- Fixing: Fixing on the top and bottom parts of the enclosure by means of M8 inserts and screws (supplied)




Note:
Dimensions, see page 223


NSYDPLA3

Characteristics	Depth (mm)	No. of doors	References
Step slides	320	1	**NSYDPLA3**
Step slides	320	2	2 x **NSYDPLA3**
Step slides	420	1	**NSYDPLA4**
Step slides	420	2	2 x **NSYDPLA4**
Step slides	620	1	**NSYDPLA6**
Step slides	620	2	2 x **NSYDPLA6**

Adapter plates

- The enclosures with open bottom part (versions PLAZ and PLAZT) require a set of adapter plates for mounting: An internal door, step slides, modular chassis and 19" chassis.
- **NSYPTZ●●●** for one door enclosures
- **NSYPTX●●●** 2P for two door enclosures
- Material: Galvanised steel
- Fixing: Fixing on the bottom part of the enclosure by means of M8 inserts and screws (supplied)




NSYPTZ3

Characteristics	Depth (mm)	No. of doors	References
Adapter plates	320	1	**NSYPTZ3**
Adapter plates	320	2	**NSYPTZ32P**
Adapter plates	420	1	**NSYPTZ4**
Adapter plates	420	2	**NSYPTZ42P**
Adapter plates	620	1	**NSYPTZ6**
Adapter plates	620	2	**NSYPTZ62P**

Additional support

- Set of four additional brackets, to be slid into the step slides, for the installation of an additional mounting plate.


NSYEDPLA

Characteristics	Reference
Additional support	**NSYEDPLA**

Plain cover plate

- Plain cover plate for non modular switchgear protection.
- Can be cutted out according to needs.
- Material: Polystyrene (PS) (for 146 mm high)
- Fiberglass reinforced polyester (for 298 mm high)
- Colour: RAL 7035 grey

Supply:
Order by multiples of 2 (2, 4, 6...)

Note:
Dimensions, page 224


NSYCTL500DLPG

Characteristics	References
Plain cover plate	**NSYCTL500DLPG**
Plain cover plate	**NSYCTL500DLP2**
Plain cover plate	**NSYCTL750DLPG**
Plain cover plate	**NSYCTL750DLP2**

Plain mounting plate

Supply:
Order by multiples of 2 (2, 4, 6...)

- Plate for fixing non modular devices.
- Depth-adjustable fixing on the supports from 40 to 85 mm..
- Material: Galvanised steel 2 mm thick

Note:
Dimensions, page 224

Characteristics	References
Plain mounting plate	**NSYPMP500DLP**
Plain mounting plate	**NSYPMP5002DLP**
Plain mounting plate	**NSYPMP750DLP**
Plain mounting plate	**NSYPMP7502DLP**

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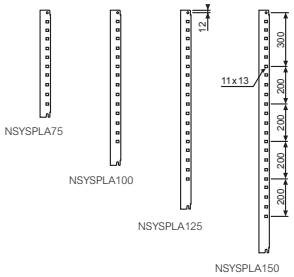
Polyester floor-standing enclosures

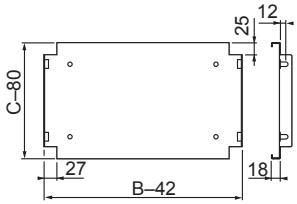
Support plate



NSYSPLA75

Installation:
It is installed directly on the bottom part of the enclosure.
For the installation of one or several support plates, use two sets of two uprights suitable for the height (to be ordered separately). These uprights offer the option of adjusting the height with a step of 50 mm





- Designed to support assorted equipment or simply to install a separation.
- In the two door enclosures, the installation of the plate or the uprights requires the prior installation of an intermediate support, ref. **NSYSBPLA**, presented beside.
- Material: Galvanised steel

Supply:
Delivered with the fixings required for installation

Height	Depth	Upright No. of adjustments	References
750	320 / 420	2	2 x **NSYSPLA75**
1000	320 / 420	3	2 x **NSYSPLA100**
1250	320 / 420	4	2 x **NSYSPLA125**
1500	–	5	2 x **NSYSPLA150**

Depth (C)	Width (B)	Plate Max. load	References
320	500	60 kg	**NSYBANPLA53**
320	750	60 kg	**NSYBANPLA73**
420	500	50 kg	**NSYBANPLA54**
420	750	50 kg	**NSYBANPLA74**
620	500	50 kg	**NSYBANPLA56***
620	750	50 kg	**NSYBANPLA76**

*Designed for PLA enclosures of 1250 mm width and 620 mm depth.

M8 inserts



NSYTEX8

- To be placed in the bosses moulded on the doors, uprights, rear panels and bottom and top parts, for fixing accessories and assorted devices.
- Material: Brass

Supply:
References by unit. Order by multiples of 8 units (8, 16, 24, etc.)

Characteristics	References
Fixing inserts	**NSYTEX8**

Intermediate support in the two door enclosures



NSYSBPLA

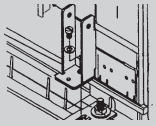
- Required accessory for installing support plates, ref. **NSYBANPLA●●●** or uprights, ref. **NSYSPLA●●●** in the two door enclosures
- Material: Galvanised steel

Supply:
Two support kits

Characteristics	References
Intermediate support in the two door enclosures	**NSYSBPLA**

Recommendation





Intermediate support
Accessory required for installing uprights, ref. **NSYSPLA●●●**.
Only for two door enclosures.
Supply: one (including two supports)
ref. **NSYSBPLA**

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Polyester DIN floor-standing enclosure

Floor-standing enclosures designed mainly to accommodate busbars and DIN type three pole LV fuse, for LV public distribution network. The properties of the material and the manufacturing process are identical to those of the Thalassa PLA range.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining





Green Premium™



Smart

- Enclosure ref. **NSYPLD8122G** with the central upright fixed to the left door.
- Enclosure ref. **NSYPLD8122CG** with central upright, two doors and two locks.

9

LV public distribution application with DIN three pole fuse blocks: Floor-standing enclosure and plinth

1



2



3



4



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use painted enclosures available through the P&S offer.

See page 522 for details or consult our web site www.se.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

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According to Reach and RoHs & Halogen free



PLD

Note:
Dimensions, see page 226

Characteristics	Thalassa PLD
	• Floor-standing enclosure with built-in canopy, not overhanging, allowing the coupling of enclosures side-to-side or back-to-back. • Easily removable inner hinges, allowing the door to be reversed and to open to more than 180°. • Doors equipped with impressions allowing the integration of inserts for M6 screws. • Closing by handle with lever and 1242 E cylindrical safety lock. Other locks optionally available (see page 218). • Door floor standing enclosure with central upright fixed to the left door: a single lock on the right door. • M8 boss for installation on the lateral surfaces, inserts ref. **NSYTEX8** not supplied. • M6 bosses in the roof for fixing the lighting or auxiliary equipment, inserts ref. **NSYTEX6** not supplied.
Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey
Ingress protection rating	IP43 according to IEC 60529
Mechanical protection rating	IK10
Installation	• Outdoor installation: Compliant with IEC 62208 • Direct fixing to the floor or on a plinth, with a height of 900 mm, partially embedded • Fixing points at the rear of the enclosure with: M10 inserts: For installing, direct or on insulators, distribution bars for DIN type three pole fuse holder strips and for a neutral bar M6 inserts: For installing a mounting plate

Height (mm)	Width (mm)	Depth (mm)	Size DIN	No. of doors	No. of locks	References
850	465	320	00	1	1	**NSYPLD8500G**
850	590	320	0	1	1	**NSYPLD860G**
850	785	320	1	1	1	**NSYPLD881G**
850	1115	320	2	2	1	**NSYPLD8122G**

Plinth height 900 mm



NSYZD5300G

- Easy machining.
- Embeddable plinth ready for direct fixing of DIN floor-standing enclosures.
- Retractable top front panel, providing easy access to the inside of the enclosure.
- On the rear panel, housings with M6 inserts, allowing the fixing of the plate, DIN rail or assorted hardware.
- Lateral uprights with knock-out auxiliary outlet with a diameter of Pg 36 (48 mm).
- Internal U- and L-shaped metal uprights, adjustable, for fixing cables.
- A knock-out zone is provided at the bottom of the lateral uprights for cable entry.
- Material: Polyester reinforced with fibreglass
- Colour: RAL 7035 grey

Note:
Dimensions, see page 227

Characteristics	Width (mm)	References	References
Plinth height 900 mm	465	NSYPLD8500G	**NSYZD5300G**
Plinth height 900 mm	590	NSYPLD860G	**NSYZD630G**
Plinth height 900 mm	785	NSYPLD881G	**NSYZD831G**
Plinth height 900 mm	1115	NSYPLD8122G	**NSYZD1232G**

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Polyester DIN floor-standing enclosure

Floor-standing supports


NSYSPLD

- Set of two metal supports for fixing the enclosure directly to the floor.
- Material: Galvanised steel
- Colour: RAL 7035 grey

Note:
Dimensions, see page 227

Characteristics	Table of fixing and opening dimensions			
	K	L	M	References
Floor-standing supports	360	320	224	**NSYSPLD**
Floor-standing supports	495	455	224	**NSYSPLD**
Floor-standing supports	690	650	224	**NSYSPLD**
Floor-standing supports	1020	980	224	**NSYSPLD**

Locking options


NSYTDB5ME


NSYTDB5ME

- Standard lock with retractable plastic handle and 1242 E semi-cylindrical safety lock.
- Options: Other optional shape inserts or barrels and keys

Characteristics	Type	Supply	References
Shape insert	5 mm doublebar insert.	Insert with key	**NSYTDB5ME**
Shape insert	Square insert, 6 mm	Insert with key	**NSYTC6ME**
Shape insert	Square insert, 8 mm	Insert with key	**NSYTC8ME**
Shape insert	Triangular insert, 6.5 mm	1 pack	**NSYTT6ME**
Shape insert	Triangular insert, 8 mm	1 pack	**NSYTT8ME**
Barrels	Barrel and key 405E	Barrels with 1 key	**NSYTCL405ME**
Barrels	Barrel and key 1242E	Barrels with 1 key	**NSYTL1242EME**
Barrels	Reinforced key and barrel	1 pack	**NSYTLRME**
Barrels	JIS key and barrel	1 pack	**NSYTLJISME**

Padlocking accessory


NSYBCME

- padlocking system, for Ø 9 mm padlock, preventing access to the handle.
- Material: Stainless steel.

Characteristics	Type	Supply	References
Padlocking system	Padlocking device	1 pack	**NSYBCME**

Sealing kit


NSYJED8500

- Placed directly on the door and on the rear of the enclosure.
- Seal made from black synthetic rubber.

Characteristics	For floor-standing enclosure width (mm)	References
Sealing kit	465	**NSYJED8500**
Sealing kit	590	**NSYJED860**
Sealing kit	785	**NSYJED881**
Sealing kit	1115	**NSYJED8122**

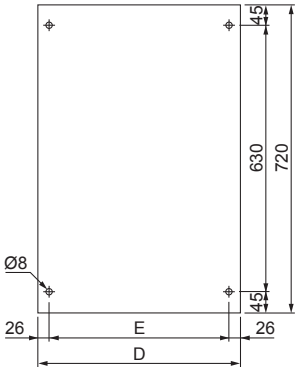
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Polyester DIN floor-standing enclosure

Insulating mounting plate


NSYAPLD85

- It is placed directly on the rear of the enclosure.
- Material: Insulating material, bakelite
- Colour: Black
- Thickness: 4 mm



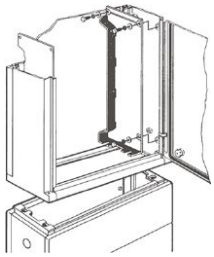
Characteristics	Width (mm)	D (mm)	E (mm)	Maximum load (kg)	References
Insulating mounting plate	465	356	304	19	**NSYAPLD85**
Insulating mounting plate	590	481	429	27	**NSYAPLD86**
Insulating mounting plate	785	676	624	39	**NSYAPLD88**
Insulating mounting plate	1115	448.5	396.5	2 x 24	**NSYAPLD812** *

*The reference includes 2 mounting plates with the dimensions of the table.

Insulating mounting plate


NSYBPLDNG

- They are fixed to the plinth, ref. **NSYZD●●●**.
- They are designed to accommodate busbars, fixed to the built-in inserts.
- This installation is used with a polyester DIN floor-standing enclosure previously machined to obtain a completely open bottom part. This machining is available in the customised offer.
- The enclosure is positioned from the top on the set made of both lateral uprights plus the plinth.
- The fixings supplied allow the attachement of the two uprights to the enclosure.
- Material: Polyester reinforced with fibreglass
- Colour: RAL 7035 grey



Characteristics	Width (mm)	D (mm)	E (mm)	Maximum load (kg)	References
Insulating mounting plate	465	356	304	19	**NSYBPLDNG**

Renovation and anti graffiti paint


NSYAUPG1G

- Paint kit with two components (base 80 % + hardener 20 %)
- Specially designed for polyester enclosures, for their renovation and/or as prevention to allow easy removal of graffiti.
- Colour: RAL 7035 grey

Supply: NSYAUPG1G
The 1 kg reference includes one pot with 800 g of base paint and 200 g of hardener
(It is enough to paint a surface of around 5 m²)

Supply: NSYAUPG5G
The 5 kg reference includes one pot with 4 kg of base paint and 1 kg of hardener
(It is enough to paint a surface of around 25 m²)

Characteristics	References
Renovation and anti graffiti paint	**NSYAUPG1G**
Renovation and anti graffiti paint	**NSYAUPG5G**

- Solvent bottles to be used as a paint thinner or to clean brushes.

Supply:
1 kg

Characteristics	References
Renovation and anti graffiti paint solvent	**NSYAUPGS**

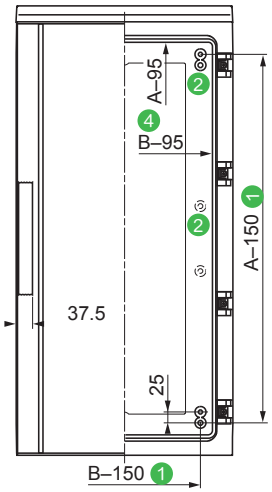
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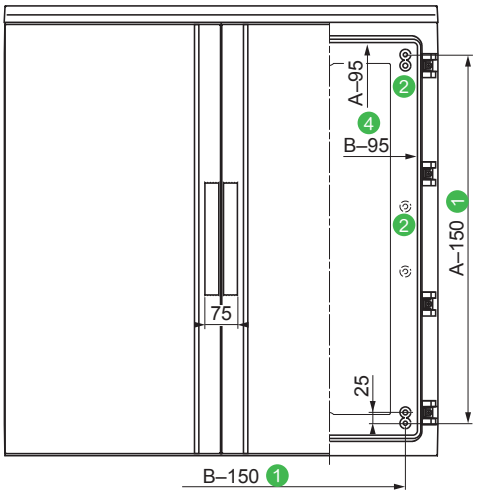
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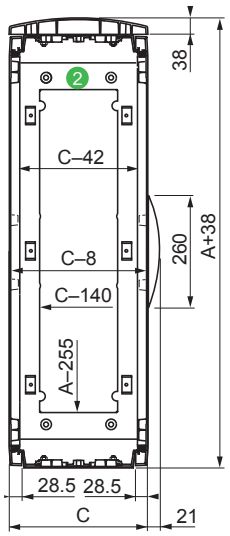
Polyester floor-standing enclosures

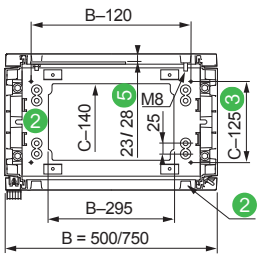
Sealed enclosure or enclosure with ventilated canopy

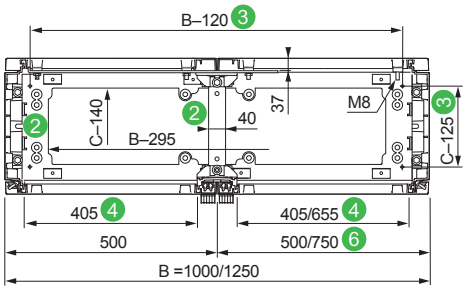
For enclosures without canopy, please just disregard the related 38 mm.

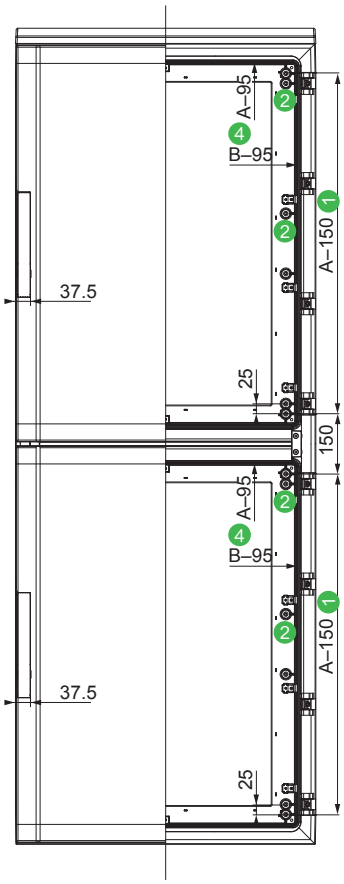


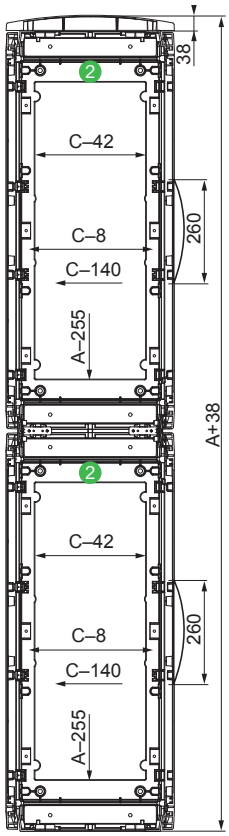












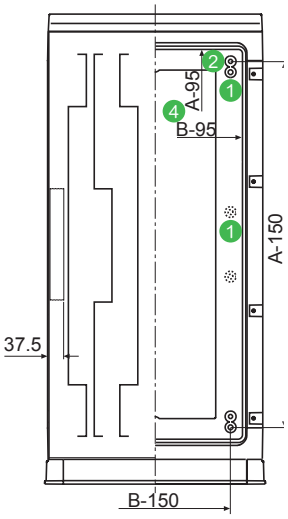
1. 4 bosses with M8 inserts and studs for direct fixing of mounting plates.
2. Bosses designed to accommodate M8 inserts, ref. **NSYTEX8**. They are placed:
   – On the back of the enclosure, from the height of 1000 mm. They allow the fixing of partial mounting plates and assorted equipment.
   – On the top and bottom parts of the enclosure. They are used for fixing the step slides, an internal door, 19" chassis, etc.
3. Dimensions for fixing on the floor or on a plinth.
4. Entry dimensions, door open.
5. Dimension of 28 mm for enclosures with heights of more than 1000 mm (height after the installation of the plain mounting plates with reinforcement foldings).
6. With a width of 1250 mm in standard supply, 500 mm door on the left and 750 mm door on the right.

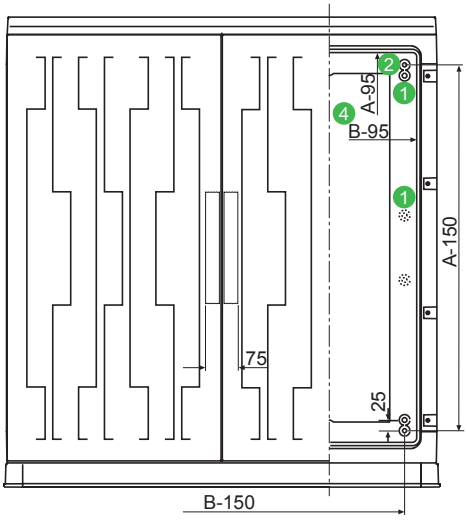
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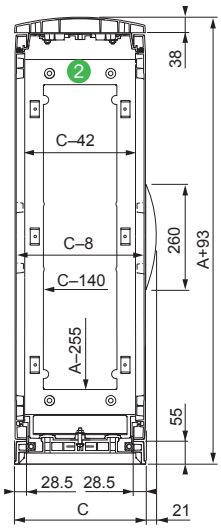
Polyester floor-standing enclosures

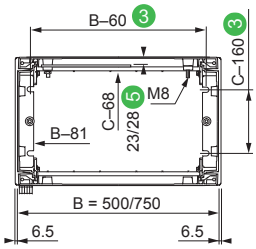
Enclosures with open bottom - plinth type With or without ventilated canopy

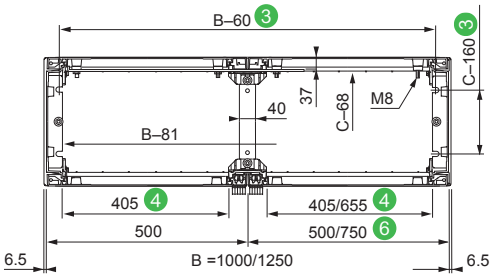
For enclosures without canopy, please just disregard the related 38 mm

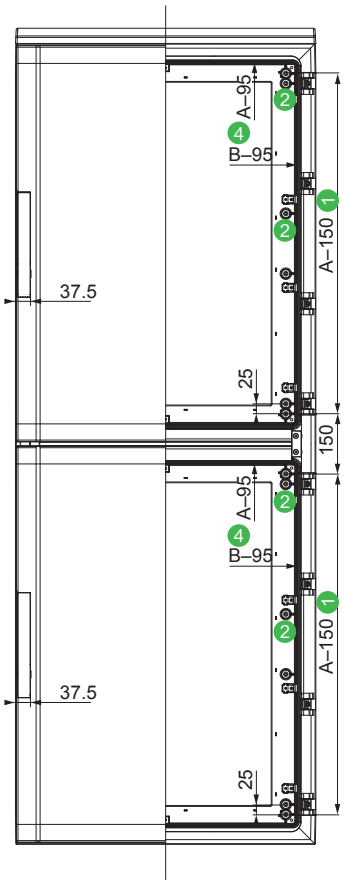


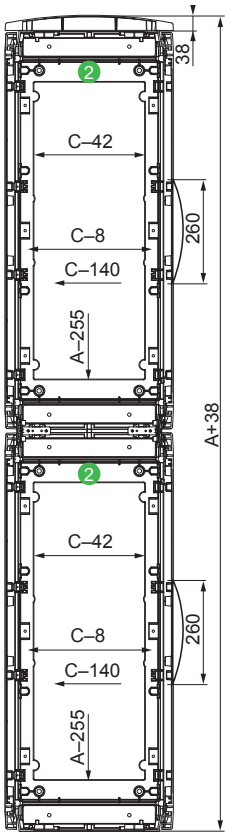










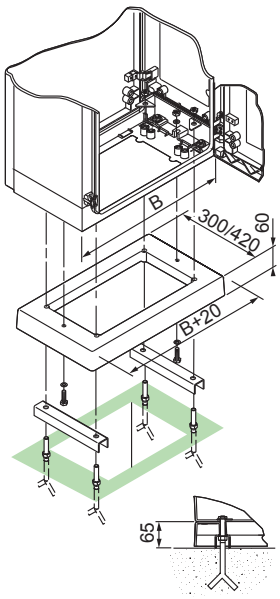


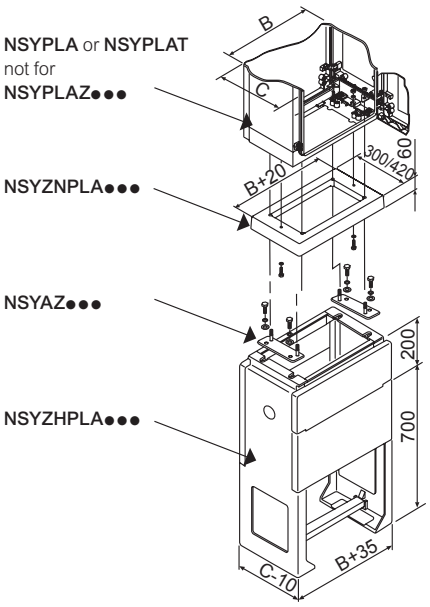
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6. With a width of 1250 mm in standard supply, 500 mm door on the left and 750 mm door on the right.

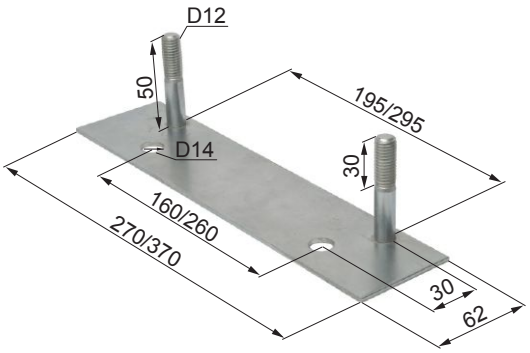
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Polyester floor-standing enclosures

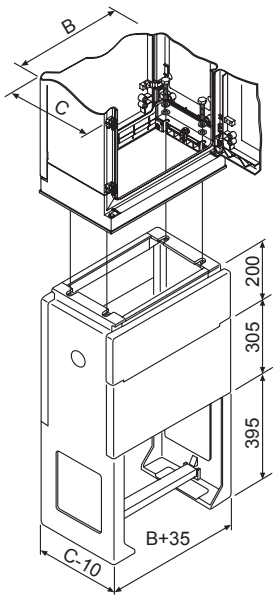
Connectors between plinths



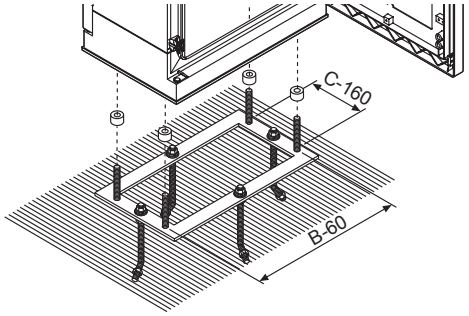




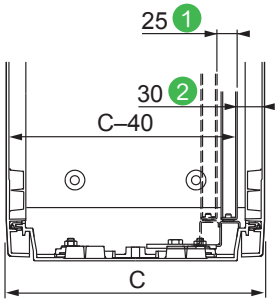
Buriable H plinths



Floor-standing frame



Internal door

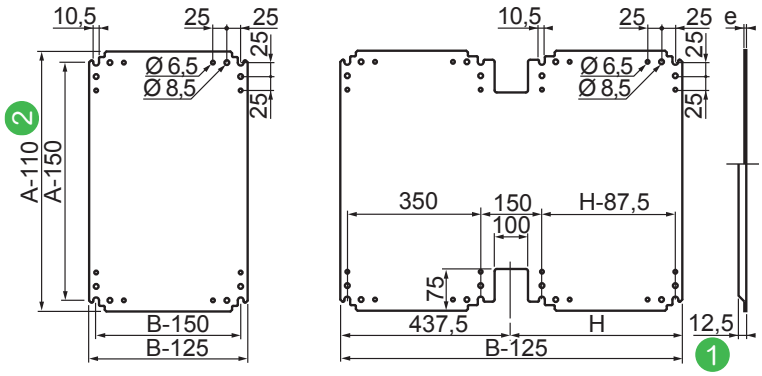


1 Two positions for depthwise installation
2 The 2nd position moves the position of the internal door back by 25 mm

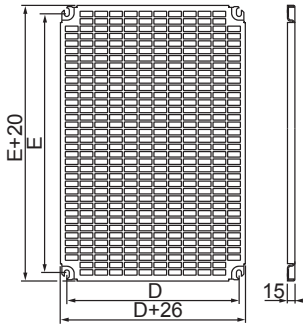
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Polyester floor-standing enclosures

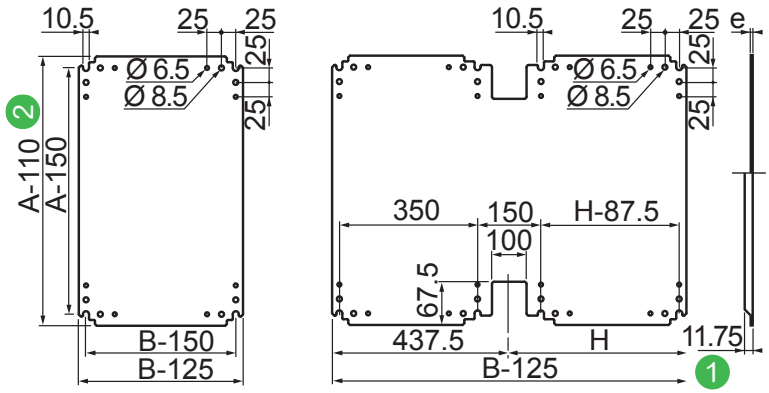
Plain mounting plate



Telequick mounting plate

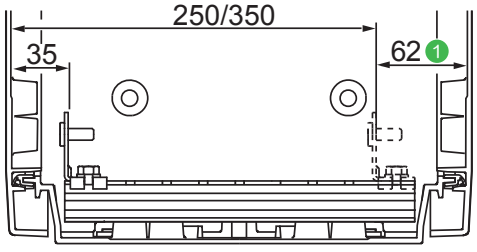


Insulating mounting plate



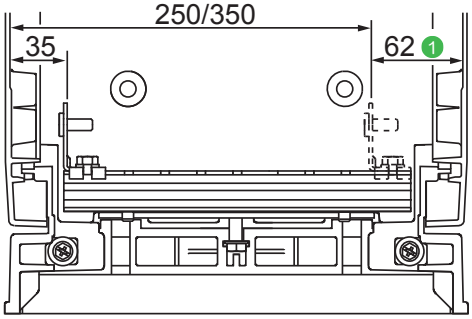
1 Reinforcing fold for steel mounting plate **NSYPMM1010** to **NSYPMM1512**
2 A-125 for references **NSYPMM1010** to **NSYPMM1512**, A-120 for the polyester mounting plate, ref. **NSYPMA●●●**.

Step slides



Installation of step slide ref. **NSYDPLA●●●**,
1 57 mm with one transparent door.

Step slides

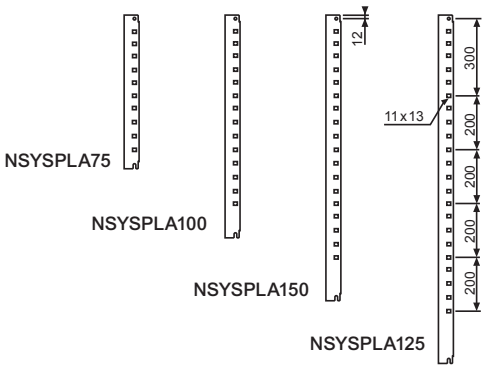


Installation of step slide ref. **NSYDPLA●●●**, with adapter plate ref. **NSYPTZ●●●**, 1 57 mm with one transparent door.

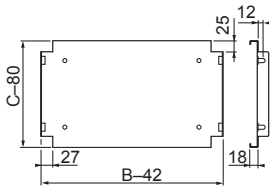
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Polyester floor-standing enclosures

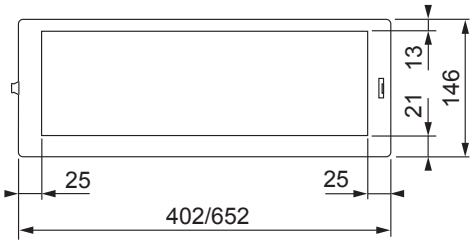
Upright

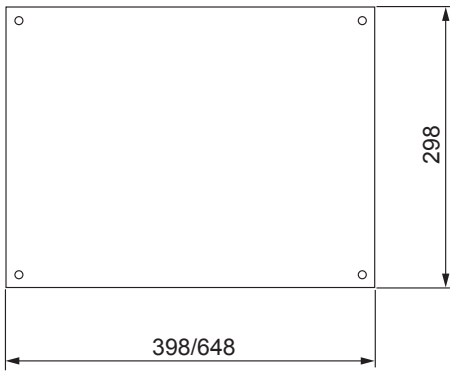


Plate



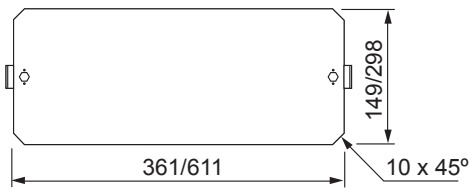
Plain cover plate





For enclosure Width (mm)	Height A (mm)	Thickness (mm)	References
500	146	2	**NSYCTL500DLPG**
500	298	4	**NSYCTL500DLP2**
750	146	2	**NSYCTL750DLPG**
750	298	4	**NSYCTL750DLP2**

Plain mounting plate

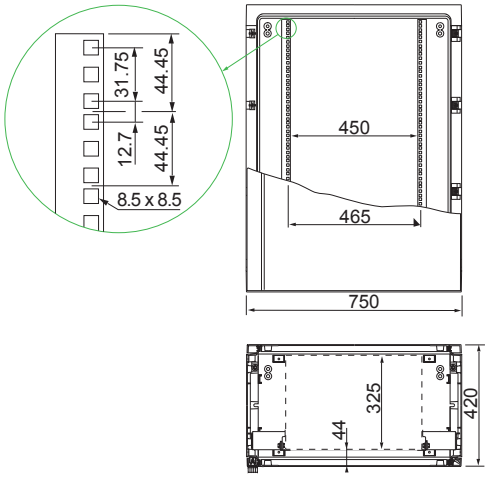


For enclosure Width (mm)	Height A (mm)	Thickness (mm)	References
500	149	2	**NSYPMP500DLP**
500	298	2	**NSYPMP5002DLP**
750	149	2	**NSYPMP750DLP**
750	298	2	**NSYPMP7502DLP**

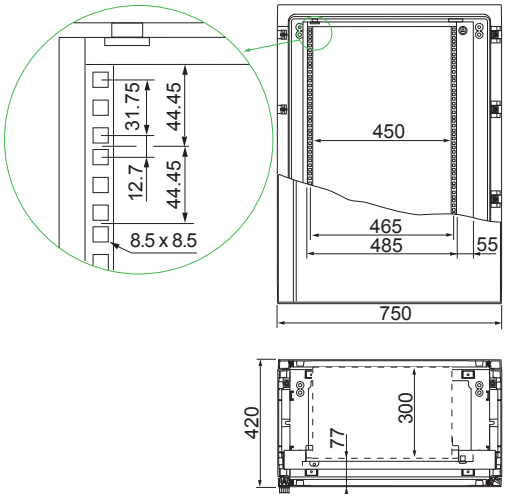
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Polyester floor-standing enclosures

19'' fixed chassis



19'' swing chassis

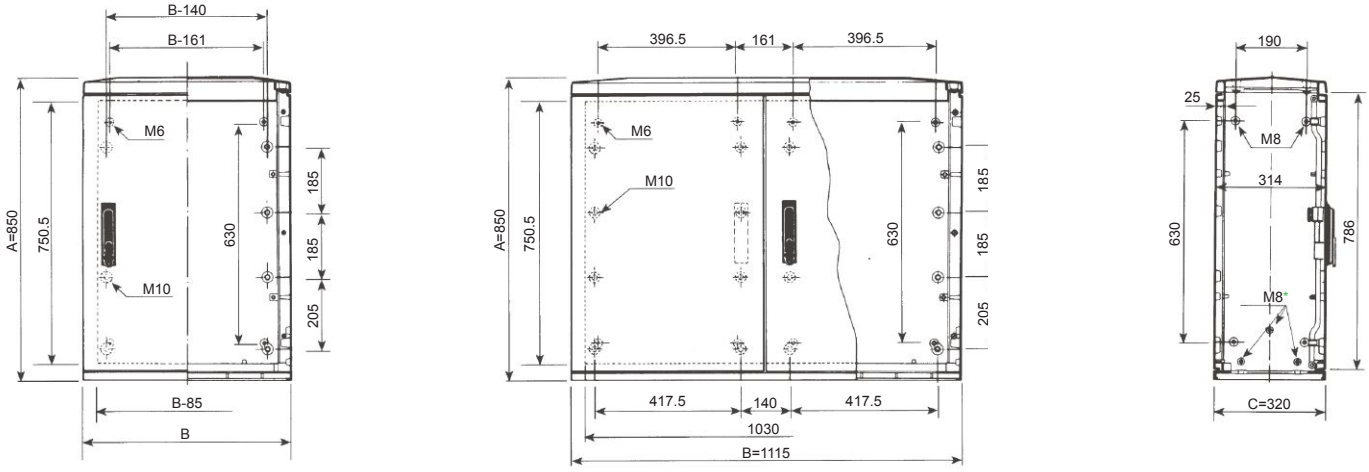


9

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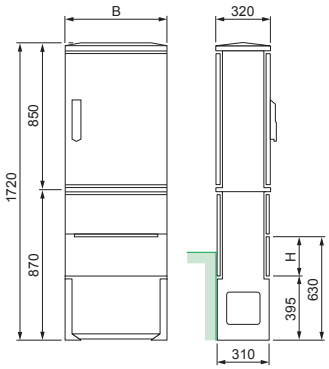
Polyester DIN floor-standing enclosure

Floor-standing enclosures



* Housing for M8 inserts, ref. NSYTEPLDM8 (to be ordered in multiples of 25).

Floor-standing enclosure plus plinth

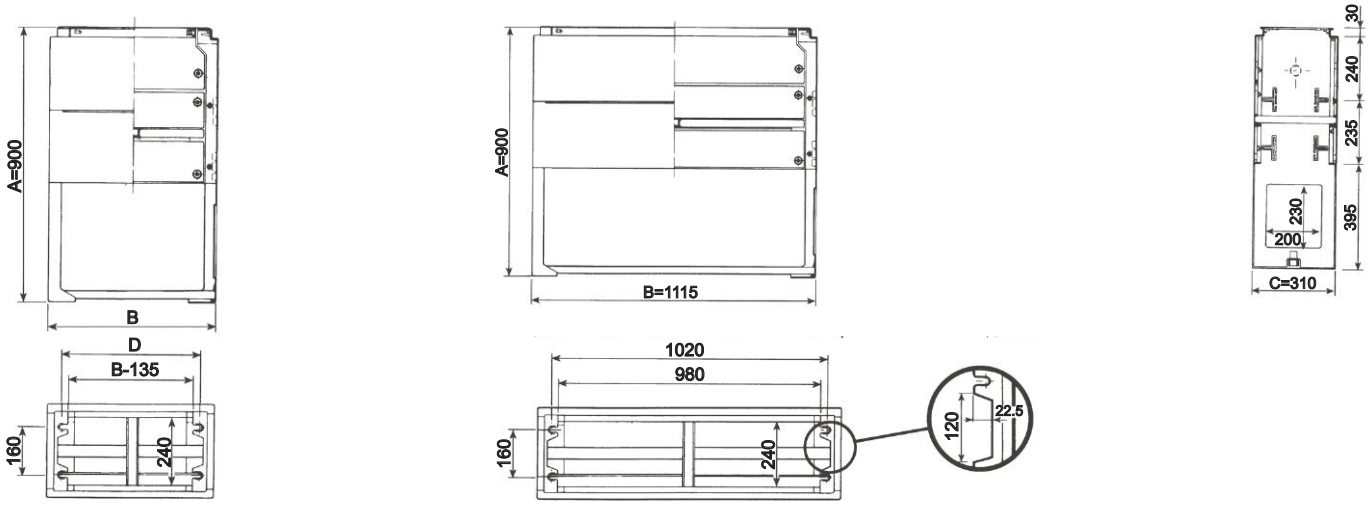


Floor-standing enclosures References	Plinths References	B (mm)	D (mm) [1]
NSYPLD8500G	**NSYZD5300G**	465	360
NSYPLD860G	**NSYZD630G**	590	495
NSYPLD881G	**NSYZD831G**	785	690
NSYPLD8122G	**NSYZD1232G**	1115	1020

[1] Distance between the points for fixing the enclosure to the plinth.

The H dimension relates to the finished floor height area.

Plinths



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Polyester DIN floor-standing enclosure

Knock-out Pg 36 auxiliary outlet



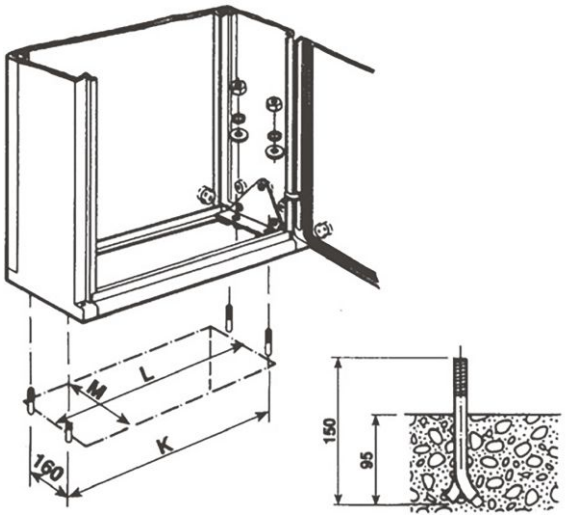
Lateral knock-out is removed



Removable top front panel (not hinged)



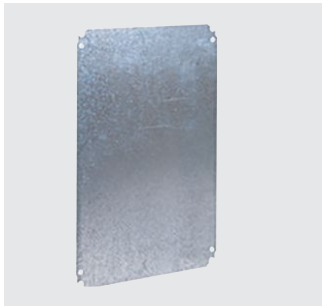
Table of fixing and opening dimensions



9

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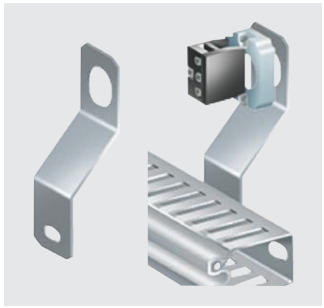
Mounting



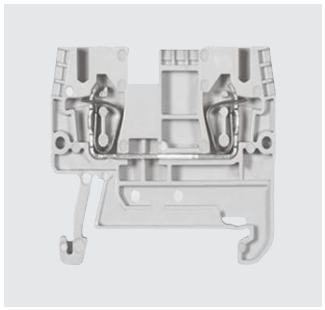


Cable management





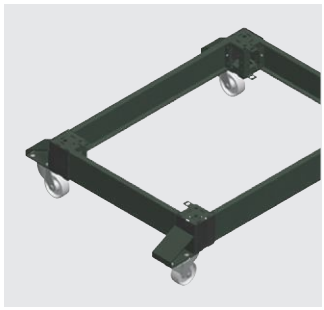
Terminal blocks



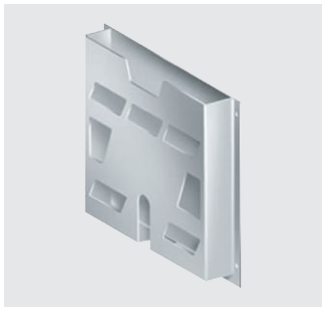
Lighting and power socket



Floor accessories



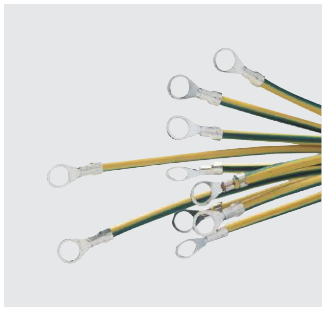
Door accessories





Other accessories





10

Life Is On Schneider Electric

Accessories

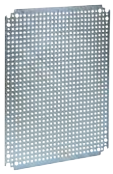
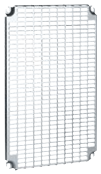
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Mounting plates for wall-mounting enclosures

S3D
S3X
PLM



Characteristics				Mounting plates Plain	Mounting plates Silkscreened	Mounting plates Microperforated**	Telequick Mounting plate**		
				–	Silkscreened for easier distribution of the products to be installed. Centimetric grid pattern.	They considerably reduce the products installation time thanks to the holes prepared to receive the self-tapping screws. Holes with Ø 3.6 mm in steps of 12.5 mm.	They allow cable guides and ducting and other installation accessories to be clipped on, making it easier to install switchgear. 11 x 26 mm slots. Switchgear fixing by clip-on nuts.		
Material				Galvanised steel	Galvanised steel	Galvanised steel	Zinc-coated steel		
Maximum load				PLM: 150 kg/m² S3D, S3X, CRN, CRNG: 250 kg/m²			PLM: 150 kg/m² S3D, S3X, CRN: 250 kg/m²		
Supply				one mounting plate without fixing elements			one mounting plate without fixing elements		
For enclosures (mm)		Dimensions (mm)					No. of perforations in		
Height	Width	H	W	References	References	References	H	W	References
200	200	150	150	**NSYMM22**	-	-	-	-	-
200	300	150	250	**NSYMM23**	-	-	-	-	-
250	200	200	150	**NSYMM2520**	-	-	-	-	-
250	300	250	200	**NSYMM3025**					
250	400	200	350	**NSYMM2540**	-	-	-	-	-
250	500	200	450	**NSYMM2550**	-	-	-	-	-
300	200	250	150	**NSYMM32**	-	**NSYMF32**	16	5	**NSYMR32**
300	250	250	200	**NSYMM3025***	-	-	16	8	**NSYMR3025**
300	300	250	250	**NSYMM33**	-	**NSYMF33**	16	9	**NSYMR33**
300	400	250	350	**NSYMM43***	**NSYMS43***	**NSYMF43***	18	11	**NSYMR34**
300	450	250	400	**NSYMM3045**	-	-	-	-	-
300	500	450	250	**NSYMM53***	-	-	-	-	-
300	600	250	550	**NSYMM36**	-	-	-	-	-
400	300	230	350	**NSYMM43***	**NSYMS43**	**NSYMF43**	22	9	**NSYMR43**
400	400	350	350	**NSYMM44**	**NSYMS44**	**NSYMF44**	24	11	**NSYMR44**
400	600	350	550	**NSYMM64***	**NSYMS64***	-	24	19	**NSYMR46**
400	800	350	750	**NSYMM48**	-	-	-	-	-
500	300	450	250	**NSYMM53***	**NSYMS53***	**NSYMF53**	29	9	**NSYMR53**
500	400	450	350	**NSYMM54**	**NSYMS54**	**NSYMF54**	31	11	**NSYMR54**
500	500	450	450	**NSYMM55***	**NSYMS55***	**NSYMF55**	31	14	**NSYMR55**
500	600	550	450	**NSYMM65**	-	-	-	-	-
600	400	550	350	**NSYMM64**	**NSYMS64**	**NSYMF64***	38	11	**NSYMR64**
600	500	550	450	**NSYMM65**	-	**NSYMF65**	38	14	**NSYMR65**
600	600	550	550	**NSYMM66**	**NSYMS66**	**NSYMF66**	38	17	**NSYMR66**
600	800	-	-	-	-	-	36	24	**NSYMR68**
700	500	650	450	**NSYMM75**	**NSYMS75**	**NSYMF75**	44	14	**NSYMR75**
700	600	650	550	**NSYMM76**	-	-	44	17	**NSYMR76**
800	600	750	550	**NSYMM86***	**NSYMS86***	**NSYMF86***	51	17	**NSYMR86**
800	800	750	750	**NSYMM88**	-	**NSYMF88**	51	24	**NSYMR88**
800	1000	-	-	**NSYMM108**	-	**NSYMF108**	49	31	**NSYMR810**
800	1200	-	-	**NSYMM128**	-	**NSYMF128**			2 x **NSYMR86**
1000	600	950	550	**NSYMM106**	-	**NSYMF106**	64	17	**NSYMR106**
1000	800	950	750	**NSYMM108***	-	**NSYMF108***	64	24	**NSYMR108**
1000	1000	950	950	**NSYMM1010**	-	**NSYMF1010**	62	31	**NSYMR1010**
1000	1200	-	-	-	-	-	62	37	**NSYMR1012**
1200	600	1150	550	**NSYMM126**	-	**NSYMF126**	75	17	**NSYMR126**
1200	800	1150	750	**NSYMM128***	-	**NSYMF128**	75	24	**NSYMR128**
1200	1000	1150	950	**NSYMM1210***	-	**NSYMF1210***	75	31	**NSYMR1210**
1200	1200	1150	1150	**NSYMM1212**	-	2 x **NSYMF126**	-	-	2 x **NSYMR126**
1400	1000	1350	950	**NSYMM1410**	-	-	88	31	**NSYMR1410**

* Plate with reversible dimensions; It can be installed in enclosures with inverted dimensions. Example: Plate ref. **NSYMM64** can be used for the following enclosures: H 600 x W 400 mm or H 400 x W 600 mm. For plain and silkscreened mounting plates: In wall-mounting enclosures with widths of 1000 and 1200 mm, it is possible to install two mounting plates at different depths using an additional central step slide **NSYSDRSDCR•••** (more information on page 233).

** To install two mounting plates in a single enclosure, also order reference **NSYCRNGSDR**. See details on page 233.
To install the plate in an enclosure with six studs, also order reference **NSYEMR**.

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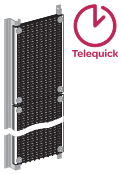
Mounting plates for wall-mounting enclosures

S3D
S3X
PLM









Characteristics	Bakelite mounting plate**	Polyester mounting plate**	DIN rail chassis	Joinable Telequick mounting plate
	• They are coupled directly to the rear of the actual enclosure or to the sliding plate supports. • Double door enclosures offer the option of installing two plates.		Components supplied with a DIN rail chassis: • Aluminium uprights. • DIN rails (symmetric section A or B, according to the reference). • Screws, washers and nuts need to mount the DIN rails to the uprights. • Batch of four adapters, ref. NSYAMCSF, needed to fix the uprights to the enclosure.	• 20/10e mm Telequick mounting plates. • These mounting plates are suitable for mounting vertically multiple plates. • 11 x 26 mm slots. • Switchgear fixing by clip-on nuts.
Material	Bakelite	Polyester reinforced with fibreglass	Aluminum or zinc-coated steel	Zinc-coated steel
Colour	RAL 9005 black	RAL 7035 grey	–	–
Maximum load	100 kg/m²	150 kg/m²	–	–
Supply	One mounting plate without fixing elements		One DIN rail chassis	One mounting plate and fixing elements

For enclosures (mm)		Dimensions (mm)				Dimensions (mm)				Type of rails	No. of rails		Dimensions (mm)		
Height	Width	H (P)	W (S)	Thick.	References	H (P)	W (S)	Thick.	References			References	H	W	References
60	700	-	-	-	-	-	-	-	-	-	-	-	120	734	**AM1PA0670**
120	700	-	-	-	-	-	-	-	-	-	-	-	180	734	**AM1PA1270**
300	150	-	-	-	-	-	-	-	-	-	-	-	349	228	**AM1PA3015**
300	195	-	-	-	-	-	-	-	-	-	-	-	349	258	**AM1PA3020**
300	200	265	150	4	**NSYMB32**	265	150	4	**NSYMPP32**	-	-	-	-	-	-
300	250	265	200	4	**NSYMB3025**	265	200	4	**NSYMPP3025**	-	-	-	-	-	-
300	300	265	250	4	**NSYMB33**	-	-	-	-	B	4	**NSYMD33**	-	-	-
300	500	-	-	-	-	-	-	-	-	-	-	-	360	534	**AM1PA3050**
300	700	-	-	-	-	-	-	-	-	-	-	-	360	734	**AM1PA3070**
400	300	325	250	4	**NSYMB43**	325	250	4	**NSYMPP43**	B	4	**NSYMD43**	-	-	-
405	300	-	-	-	-	-	-	-	-	-	-	-	465	334	**AM1PA4030**
500	400	465	350	4	**NSYMB54**	465	350	4	**NSYMPP54**	B	4	**NSYMD54**	-	-	-
600	400	565	350	4	**NSYMB64**	565	350	4	**NSYMPP64**	B	6	**NSYMD64**	660	434	**AM1PA6040**
600	500	565	450	4	**NSYMB65**	-	-	-	-	-	-	-	660	534	**AM1PA6050**
600	600	-	-	-	-	-	-	-	-	A	6	**NSYMD66**	660	634	**AM1PA6060**
600	700	-	-	-	-	-	-	-	-	-	-	-	660	734	**AM1PA6070**
700	500	665	450	4	**NSYMB75**	665	450	4	**NSYMPP75**	B	6	**NSYMD75**	-	-	-
705	500	-	-	-	-	-	-	-	-	-	-	-	765	534	**AM1PA7050**
795	600	-	-	-	-	-	-	-	-	-	-	-	855	634	**AM1PA8060**
800	600	765	550	4	**NSYMB86**	765	550	5	**NSYMPP86**	A	6	**NSYMD86**	-	-	-
800	1000	-	-	-	**NSYMB108**	-	-	-	-	-	-	-			
800	1200	-	-	-	**2 x NSYMB86**	-	-	-	-	-	-	**2 x NSYMD86**			
900	500	-	-	-	-	-	-	-	-	-	-	-	960	534	**AM1PA9050**
900	600	-	-	-	-	-	-	-	-	-	-	-	960	634	**AM1PA9060**
900	700	-	-	-	-	-	-	-	-	-	-	-	960	734	**AM1PA9070**
1000	600	965	550	4	**NSYMB106**	-	-	-	-	-	-	-	-	-	-
1000	800	965	750	4	**NSYMB108**	965	750	5	**NSYMPP108**	A	6	**NSYMD108**	-	-	-
1200	800	-	-	-	-	-	-	-	-	A	7	**NSYMD128**	-	-	-
1200	1000	1150	950	4	**NSYMB1210**	-	-	-	-	-	-	-	-	-	-

* Plate with reversible dimensions; It can be installed in enclosures with inverted dimensions. Example: Plate ref. **NSYMM64** can be used for the following enclosures: H 600 x W 400 mm or H 400 x W 600 mm. For plain and silkscreened mounting plates: In wall-mounting enclosures with widths of 1000 and 1200 mm, it is possible to install two mounting plates at different depths using an additional central step slide **NSYSDRSDCR•••** (more information on page 233).

** To install two mounting plates in a single enclosure, also order reference **NSYCRNGSDR**. See details on page 233.
To install the plate in an enclosure with six studs, also order reference **NSYEMR**.

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Mounting plates for wall-mounting enclosures

S3D S3X PLM Elevator for microperforated mounting plate


AZ1CA04

- Mounting plate elevator to mount the Microperforated mounting plate at the same level as the other Telequick system components.

Supply:
Four units

Characteristics	Reference
Elevator for microperforated mounting plate	**AZ1CA04**

Clip-on nuts for Telequick mounting plate


AF1EA3

- Used to easily fix devises in the Telequick mounting plate with the possibility of changing the layout as much as needed.

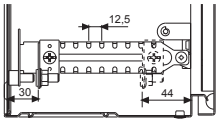
Supply:
100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...)

Characteristics	Reference
Clip-on nuts for Telequick mounting plate, Model M3	**AF1EA3**
Clip-on nuts for Telequick mounting plate, Model M4	**AF1EA4**
Clip-on nuts for Telequick mounting plate, Model M5	**AF1EA5**
Clip-on nuts for Telequick mounting plate, Model M6	**AF1EA6**

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Step slides for wall-mounting enclosures

S3D S3X Step slides for mounting plate



Supply:
Four step slides

- Set of four supports intended for installation in enclosures with depths of 200, 250, 300 and 400 mm.
- The rail allows the depth of the plate and other accessories to be adjusted in steps of 12.5 mm.


NSYSDCR200

Characteristics	Enclosure depth (mm)	Reference
Step slides for mounting plate	200	**NSYSDCR200**
Step slides for mounting plate	250	**NSYSDCR250**
Step slides for mounting plate	300	**NSYSDCR300**
Step slides for mounting plate	400	**NSYSDCR400**

S3D S3X Step slides for two mounting plates in one enclosure

Comment:
Details, see page 74

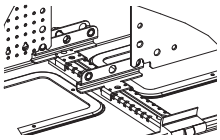
Supply:
Two step slides

- In 1000 and 1200 mm wall-mounting enclosures, it is possible to install two mounting plates side by side, using the additional central step slides.
- Not applicable for stainless steel enclosures.


NSYSDRSDCR300

Characteristics	Enclosure depth (mm)	Reference
Step slides for 2 mounting plates in one enclosure	300	
Step slides for 2 mounting plates in one enclosure	400	**NSYSDRSDCR400**

S3D S3X Slide bracket for two mounting plates at different depths



Supply:
Two slide brackets

- Additional slide bracket to be installed on the central step slides in order to mount two mounting plates, side by side, in different depths.


NSYCRNGSDR

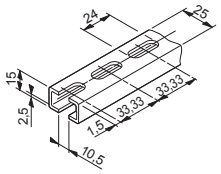
Characteristics	Reference
Slide bracket for two mounting plates at different depths	**NSYCRNGSDR**

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Vertical rails for wall-mounting enclosures

S3D S3X PLM PLA Aluminium vertical rails

Telequick



- Fixing in the enclosure with M8 nuts, ref. **NSYAMCSF** (batch of 4 adapters to be ordered separately).


NSYMDVR3

Characteristics	Height (mm)	Supply (units)	References
Aluminium vertical rail, aluminium	300	10	**NSYMDVR3**
Aluminium vertical rail, aluminium	400	10	**NSYMDVR4**
Aluminium vertical rail, aluminium	500	10	**NSYMDVR5**
Aluminium vertical rail, aluminium	600	10	**NSYMDVR6**
Aluminium vertical rail, aluminium	700	10	**NSYMDVR7**
Aluminium vertical rail, aluminium	800	10	**NSYMDVR8**
Aluminium vertical rail, aluminium	1000	10	**NSYMDVR10**
Aluminium vertical rail, steel	1200	2	**NSYMDVR12**
Aluminium vertical rail, aluminium	3000	10	**NSYMDVR3M**

S3D S3X PLM 20/10e mm zinc-coated pre-drilled uprights

Telequick


DZ6MZ121

- Ø 11 mm holes enable to adjust the rows of equipment by 20 mm steps.

Comment:
Details, see page 298

Characteristics	Height (mm)	Weight (g)	References
20/10e mm zinc-coated pre-drilled uprights	1020	2330	**DZ6MZ121**
20/10e mm zinc-coated pre-drilled uprights	1320	2920	**DZ6MZ151**
20/10e mm zinc-coated pre-drilled uprights	1620	3375	**DZ6MZ181**
20/10e mm zinc-coated pre-drilled uprights	1920	4000	**DZ6MZ211**

Sliding Nuts

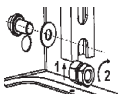
Supply:
100 Sliding nuts

- Sliding nuts to be used on aluminium vertical rails.


NSYNM5

Characteristics	Type	References
Sliding Nut	M4	**NSYNM4**
Sliding Nut	M5	**NSYNM5**
Sliding Nut	M6	**NSYNM6**

Brass nuts to fix the upright to the enclosures

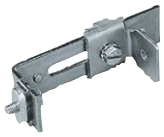


Supply:
Four Brass nuts


NSYAMCSF

Characteristics	References
Brass nuts to fix the upright to the enclosures	**NSYAMCSF**

Slides and brackets


NSYSB90



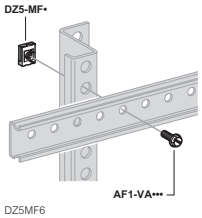
Supply:
10 units. References per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).

- They allow the depth of the plates and rails to be adjusted.


NSYFB

Characteristics	Width (mm)	Enclosure depth (mm)	References
Slide with bracket	90	150 and 200	**NSYSB90**
Slide with bracket	130	250 and 300	**NSYSB130**
Bracket for slides (customised mounting plate)			**NSYFB**

Notched clamp nuts



DZ5MF6

Supply:
100 units. References per unit. To be ordered in multiples of 100 (100, 200, 300, etc).

- Specially designed for pre-drilled uprights.

Characteristics	Type	Weight (g)	References
Notched clamp nuts	M6	7.0	**DZ5MF6**
Notched clamp nuts	M8	8.0	**DZ5MF8**

10

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Mounting plates for floor-standing enclosures

SM SMX SF SFX Plain mounting plate

- Depth adjustable with a pitch of 25 mm, provided with plastic shoe for easier sliding.
- Once the plate is fixed, in advanced position, the sliding shoe can be easily removed, to increase the available plate surface.
- In sets made up of two or more enclosures with mounting plates, it is possible to obtain a continuous plate surface using intermediate mounting plates (see page 237).
- Load: 300 kg/ m²
- Maximum load: 600 kg in the back of the enclosure and 500 kg in the intermediate position
- Material: Galvanised steel

Fixing options:
- At the sides of the enclosure with the orthogonal brackets (see page 237)
- Back-to-back, with the brackets for fixing the mounting plates in back-to-back position (see page 237)

Supply:
One mounting plate and sliding shoes


NSYMP124

Characteristics	Width (mm)	Height (mm)	References	
Plain mounting plate	400	1200	**NSYMP124**	New
Plain mounting plate	400	1400	**NSYMP144**	New
Plain mounting plate	400	1600	**NSYMP164**	New
Plain mounting plate	400	1800	**NSYMP184**	New
Plain mounting plate	400	2000	**NSYMP204**	New
Plain mounting plate	400	2200	**NSYMP224**	New
Plain mounting plate	600	1200	**NSYMP126**	
Plain mounting plate	600	1400	**NSYMP146**	
Plain mounting plate	600	1600	**NSYMP166**	
Plain mounting plate	600	1800	**NSYMP186**	
Plain mounting plate	600	2000	**NSYMP206**	
Plain mounting plate	600	2200	**NSYMP226**	
Plain mounting plate	800	1200	**NSYMP128**	
Plain mounting plate	800	1400	**NSYMP148**	
Plain mounting plate	800	1600	**NSYMP168**	
Plain mounting plate	800	1800	**NSYMP188**	
Plain mounting plate	800	2000	**NSYMP208**	
Plain mounting plate	800	2200	**NSYMP228**	
Plain mounting plate	1000	1200	**NSYMP1210**	
Plain mounting plate	1000	1400	**NSYMP1410**	
Plain mounting plate	1000	1600	**NSYMP1610**	
Plain mounting plate	1000	1800	**NSYMP1810**	
Plain mounting plate	1000	2000	**NSYMP2010**	
Plain mounting plate	1000	2200	**NSYMP2210**	
Plain mounting plate	1200	1200	**NSYMP1212**	
Plain mounting plate	1200	1400	**NSYMP1412**	
Plain mounting plate	1200	1600	**NSYMP1612**	
Plain mounting plate	1200	1800	**NSYMP1812**	
Plain mounting plate	1200	2000	**NSYMP2012**	
Plain mounting plate	1200	2200	**NSYMP2212**	
Plain mounting plate	1600	1800	**NSYMP1816**	
Plain mounting plate	1600	2000	**NSYMP2016**	

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Mounting plates for floor-standing enclosures

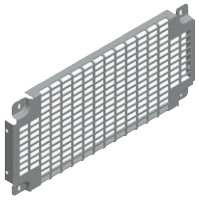
SM SMX SF SFX SD SDX Perforated mounting plate Telequick

- Allows the installation of switchgear without drilling or screwing.
- Plate designed for quick fixing of switchgear by means of clip-on nuts ref. **AF1EA3** to **AF1EA6**.
- Vertical continuity is reinforced by the vertical installation of plates.
- The top plate must be fixed in the third hole, 80 mm from the top frame.
- Load: 150 kg/m²
- Material: Zinc-coated steel

Fixing options:
- Directly to the vertical uprights of the structure, by means of self-tapping screws (only Spacial SF)
- To the technical vertical uprights, by means of sliding nuts, see page 241;
- to standard uprights by means of flat nuts, see page 241 or self-tapping screws, and to cross rails

Comment:
Examples of combination see page 299

Supply:
One perforated mounting plate and fixing elements for technical uprights and screws for fixing to the structure or cross rails


NSYSTMP4560

Characteristics	Width (mm)	Plate height (mm) D	E	F	G	Useful surface (dm²)	References
Perforated mounting plate Telequick	600	450	200	-	100	11.4	**NSYSTMP2260**
Perforated mounting plate Telequick	600	450	425	-	325	22.8	**NSYSTMP4560**
Perforated mounting plate Telequick	600	450	575	125	475	30.4	**NSYSTMP6060**
Perforated mounting plate Telequick	600	450	800	250	700	11.9	**NSYSTMP8260**
Perforated mounting plate Telequick	800	650	200	-	100	15.9	**NSYSTMP2280**
Perforated mounting plate Telequick	800	650	425	-	325	31.8	**NSYSTMP4580**
Perforated mounting plate Telequick	800	650	575	125	475	42.4	**NSYSTMP6080**
Perforated mounting plate Telequick	800	650	800	250	700	58.4	**NSYSTMP8280**
Perforated mounting plate Telequick	1000	850	200	-	100	20.4	**NSYSTMP22100**
Perforated mounting plate Telequick	1000	850	425	-	325	40.8	**NSYSTMP45100**
Perforated mounting plate Telequick	1000	850	575	125	475	54.4	**NSYSTMP60100**
Perforated mounting plate Telequick	1000	850	800	250	700	74.9	**NSYSTMP82100**
Perforated mounting plate Telequick	1200	1050	200	-	100	24.9	**NSYSTMP22120**
Perforated mounting plate Telequick	1200	1050	425	-	325	49.9	**NSYSTMP45120**
Perforated mounting plate Telequick	1200	1050	575	125	475	66.5	**NSYSTMP60120**
Perforated mounting plate Telequick	1200	1050	800	250	700	91.5	**NSYSTMP82120**

SM SF SFX Partial mounting plate

- Partial mounting plate, provided with reinforcement flange on its four sides.
- Load: 250 kg/m²
- Material: Galvanised steel

Fixing options:
Spacial SF, SFX:
- Fixing to the vertical uprights of the structure
- Fixing to the technical or standard vertical uprights, see page 241
- For installations in advanced position, fixing to cross rails, see page 244

Spacial SM:
- Fixing by means of adaptation profiles and 40 mm universal cross rails (one row) in vertical position, or also on horizontal universal cross rails
- It can be mounted horizontally, as a tray, by means of depthwise cross rails, see page 244

Supply:
Partial mounting plate and fixingelements


NSYSPMP2560

Characteristics	Width (mm) B	Plate height (mm) H	Plate length (mm) B-100	References
Partial mounting plate	400	247	300	**NSYSPMP2540**
Partial mounting plate	400	397	300	**NSYSPMP4040**
Partial mounting plate	400	597	300	**NSYSPMP6040**
Partial mounting plate	600	247	500	**NSYSPMP2560**
Partial mounting plate	600	247	750	**NSYSPMP2575**
Partial mounting plate	600	397	500	**NSYSPMP4060**
Partial mounting plate	600	597	500	**NSYSPMP6060**
Partial mounting plate	800	247	700	**NSYSPMP2580**
Partial mounting plate	800	397	700	**NSYSPMP4080**
Partial mounting plate	800	597	700	**NSYSPMP6080**
Partial mounting plate	1000	247	900	**NSYSPMP25100**
Partial mounting plate	1000	397	900	**NSYSPMP40100**
Partial mounting plate	1000	597	900	**NSYSPMP60100**
Partial mounting plate	1200	247	1100	**NSYSPMP25120**
Partial mounting plate	1200	397	1100	**NSYSPMP40120**
Partial mounting plate	1200	597	1100	**NSYSPMP60120**
Partial mounting plate	1600	397	1100	**NSYSPMP40160**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Mounting plates for floor-standing enclosures

SF SFX Intermediate mounting plate



- Obtains a continuous surface of the mounting plate at enclosure suites.
- Adjustable depth with a pitch of 25 mm. When the mounting plates are located in the back of the enclosure, the vertical profiles of the structure are flush with the plates, acting as an intermediate mounting plate. In this case the intermediate plate cannot be installed.
- Material: Galvanised steel

Supply:
One intermediate plate and fixing elements


NSYSIMP12

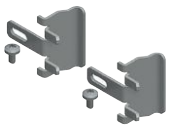
Characteristics	Height (mm)	References
Intermediate mounting plate	1200	**NSYSIMP12**
Intermediate mounting plate	1400	**NSYSIMP14**
Intermediate mounting plate	1600	**NSYSIMP16**
Intermediate mounting plate	1800	**NSYSIMP18**
Intermediate mounting plate	2000	**NSYSIMP20**
Intermediate mounting plate	2200	**NSYSIMP22**

SF SFX Intermediate fixing of the mounting plate, located in the back of the enclosure



- Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in the back of the enclosure.
- The supports minimise the vibration of the plate during the transport and operation of the panel.
- Material: Zinc-coated steel
- **Fixing:** The supports are fixed to the structure when the plate is already located in the back of the enclosure
  Spacial SM: Fixing to 40 mm universal cross rails (one row), installed vertically in the back of the enclosure, see **page 244**

Supply:
Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30…)


NSYSMPFB

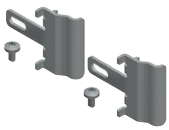
Characteristics	References
Intermediate fixing of the mounting plate, located in the back of the enclosure	**NSYSMPFB**

SF SFX Intermediate fixing of the mounting plate, in advanced position



- Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in advanced position.
- The supports minimise the vibration of the plate during the transport and operation of the panel.
- Material: Zinc-coated steel
- **Fixing:** The supports are mounted on light cross rails or on 40 mm (one row) universal or quick fixing cross rails (not supplied), see **page 244**

Supply:
Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30…)


NSYSMPFA

Characteristics	References
Intermediate fixing of the mounting plate, in advanced position	**NSYSMPFA**

SF SFX Reinforcement for mounting plate

- Reinforcement kit for transversal mounting plate.
- Provides extra rigidity to the mounting plates and absorbs vibrations.
- Can be used as a support for fixing very heavy elements.
- Material: Zinc-coated steel
- Thickness: 15/10^{e} mm

Supply:
Two profiles, four supports for fixing to the mounting plate and fixing elements


NSYMPRK8

Characteristics	Width (mm)	References
Reinforcement for mounting plate	800	**NSYMPRK8**
Reinforcement for mounting plate	1000	**NSYMPRK10**
Reinforcement for mounting plate	1200	**NSYMPRK12**
Reinforcement for mounting plate	1600	**NSYMPRK16**

Mounting plate accessories

Self-tapping screw

- Hexagonal head, 4.8 x 16 mm thread.
- Drilling capacity: Thicknesses between 17.5/10^{e} and 40/10^{e} mm.

Supply:
100 units. To be ordered in multiples of 100 (100, 200, 300, etc.).


NSYS16M5HS

Characteristics	References
Self-tapping screw	**NSYS16M5HS**

10

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Mounting plate brackets for floor-standing enclosures

SM SMX SF SFX Mounting plate fixing brackets

- For direct mounting on the structure of the enclosure.
- Adjustable depth with a pitch of 25 mm.
- Material: Zinc-coated steel
- Maximum load: Four brackets: 600 kg


NSYSFPB

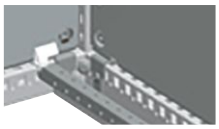
Supply:
Four brackets and fixing elements

Characteristics	References
Spacial SF Mounting plate fixing brackets	**NSYSFPB**
Spacial SM/SMX/SFX Mounting plate fixing brackets	**NSYSMPB**

SF SFX Orthogonal brackets


NSYSMPSB

- Designed for the installation of mounting plates on the sides of the enclosure.
- In the event of installing one plate in the back of the enclosure and one plate at the side, they must both be installed using orthogonal brackets.
- Spacial SFX: In order to mount the lateral mounting plate is necessary to remove the one on the back and its fixing brackets.
- Material: Zinc-coated steel
- Maximum load: Four brackets: 600 kg



Supply:
Four brackets and fixing elements

Characteristics	References
Spacial SF/SFX Orthogonal brackets	**NSYSMPSB**

SF Mounting plate sliding rails



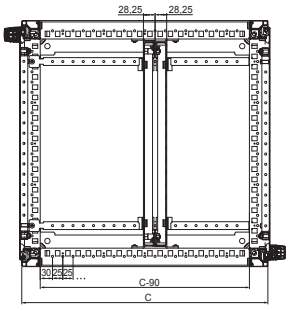
- Rails which the mounting plate slides along when inserted in the enclosure.
- Once the mounting plate is installed and fixed to the brackets, the sliding rails can be removed to maximise the cable passage surface, and can be installed depthwise in other positions.
- Material: Zinc-coated steel

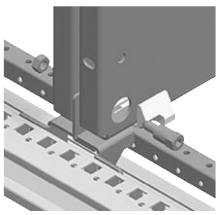
Supply:
Four brackets and fixing elements


NSYSMPS4

Characteristics	Depth (mm)	References
Spacial SF Mounting plate sliding rails	400	**NSYSMPS4**
Spacial SF Mounting plate sliding rails	500	**NSYSMPS5**
Spacial SF Mounting plate sliding rails	600	**NSYSMPS6**
Spacial SF Mounting plate sliding rails	800	**NSYSMPS8**

Brackets for fixing mounting plates in back-to-back position





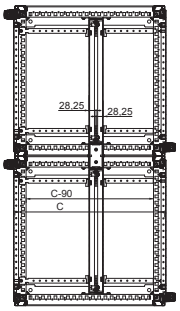
Supply:
Four brackets for fixing back-to-back and fixing elements


NSYSBTB

- Doubling the mounting surface.
- Adjustable with a pitch of 25 mm.
- Material: Zinc-coated steel

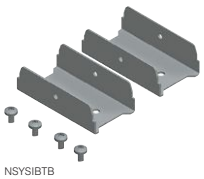
Characteristics	References
Brackets for fixing mounting plates in back-to-back position	**NSYSBTB**

SM SMX SF SFX Brackets for fixing intermediate mounting plates in back-to-back position





Supply:
2 brackets for fixing intermediate plates back-to-back and fixing elements


NSYSIBTB

- Doubling the mounting surface.
- Adjustable with a pitch of 25 mm.
- Material: Zinc-coated steel

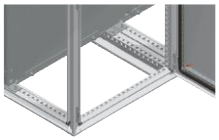
Characteristics	References
Spacial SM/SMX/SF/SDX Brackets for fixing intermediate mounting plates in back-to-back position	**NSYSIBTB**

10

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Mounting rails for floor-standing enclosures

SF SFX Side entry rails for the mounting plate



- Side entry device for the mounting plates when coupling Spacial SF enclosures or Spacial SFX.
- The mounting plates can be coupled with one another, and are fixed to the side entry guide by pressure.
- Material: Zinc-coated steel

Supply:
Two rails (top and bottom) and fixing elements



NSYSMPSE6

Characteristics	Width (mm)	References
Spacial SF/SFX Side entry rails for the mounting plate	600	**NSYSMPSE6**
Spacial SF/SFX Side entry rails for the mounting plate	800	**NSYSMPSE8**
Spacial SF/SFX Side entry rails for the mounting plate	1000	**NSYSMPSE10**
Spacial SF/SFX Side entry rails for the mounting plate	1200	**NSYSMPSE12**

Mounting plates

- Mounting plates for the side entry device when coupling Spacial SF enclosures or Spacial SFX.
- Solution for enclosures of width and depth of 400.
- Material: Galvanised steel

Supply:
One mounting plate and fixing elements



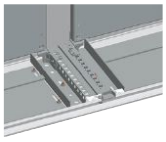
NSYMP224

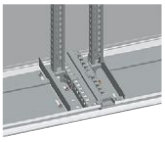
Characteristics	Height (mm)	References	
Partial mounting plate 400	250	**NSYSPMP2540**	New
Partial mounting plate 400	400	**NSYSPMP4040**	New
Partial mounting plate 400	600	**NSYSPMP6040**	New
Mounting plate 400	1200	**NSYMP124**	New
Mounting plate 400	1400	**NSYMP144**	New
Mounting plate 400	1600	**NSYMP164**	New
Mounting plate 400	1800	**NSYMP184**	New
Mounting plate 400	2000	**NSYMP204**	New
Mounting plate 400	2200	**NSYMP224**	New

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Mounting rails for floor-standing enclosures

SM Top/bottom adjustment rails





- Allows the installation of two mounting plates or vertical uprights in enclosures with a width of 1200 mm, as if in two independent enclosures.
- A set of mounting plate fixing brackets ref. **NSYSMPB** is required for this.
- Optional installation of an intermediate mounting plate.
- Material: Galvanised steel

Comment:
Examples of combination
see page 300

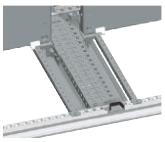
Supply:
Two rails, top and bottom



NSYSTBR3

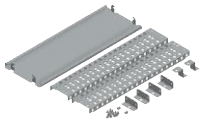
Characteristics	Depth (mm)	References
Spacial SM Top/bottom adjustment rails	300	**NSYSTBR3**
Spacial SM Top/bottom adjustment rails	400	**NSYSTBR4**
Spacial SM Top/bottom adjustment rails	500	**NSYSTBR5**
Spacial SM Top/bottom adjustment rails	600	**NSYSTBR6**

SF Kit for adapting two-door enclosures



- Allows the installation of two mounting plates as if in two independent enclosures.
- A set of brackets for fixing mounting plates ref. **NSYSMPB** is required for this.
- Option of installing an intermediate mounting plate.
- Valid for enclosures with widths of 1200 and 1600 mm.
- In the event of installing a cable gland plate for a width of 1200 mm, it is necessary to install two with a width of 600 mm, and for widths of 1600 mm, two with a width of 800 mm.

Comment:
Examples of combination
see page 300



NSYSMP2D4

Characteristics	Depth (mm)	References
Spacial SF Kit for adapting two-door enclosures	400	**NSYSMP2D4**
Spacial SF Kit for adapting two-door enclosures	500	**NSYSMP2D5**
Spacial SF Kit for adapting two-door enclosures	600	**NSYSMP2D6**
Spacial SF Kit for adapting two-door enclosures	800	**NSYSMP2D8**

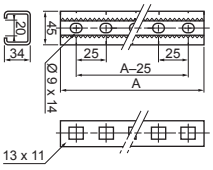
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Uprights for floor-standing enclosures

SM SMX SF SFX SD SDX PLA PHD Technical uprights

Telequick

- Vertical uprights for fixing plates and rails.
- They can be fixed to the fixing brackets of the mounting plate or to the uprightfixing bracket (ref. **NSYMFB**).
- Adjustable height in steps of 2.5 mm (with quarter-turn nuts, ref. **NSYSNM6** or **NSYSNM8**) or 25 mm (with cage nuts, ref. **NSYCNM6** or **NSYCNM8**).
- Material: Galvanised steel
- Thickness: 20/10e mm



Comment:
NSYTVR20 is not compatible with PLA or PHD 2000 mm high enclosures. Use 2 x **NSYTVR10**.

Supply:
Set of two uprights

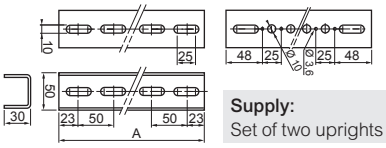

NSYTVR7

Characteristics	Height (mm)	A (mm)	References
SM/SMX/SF/SFX/SD/SDX/PLA/PHD Technical uprights	750	625	**NSYTVR7**
SM/SMX/SF/SFX/SD/SDX/PLA/PHD Technical uprights * Control desk.	1000*	675	**NSYTVR8**
SM/SMX/SF/SFX/SD/SDX/PLA/PHD Technical uprights	1000	875	**NSYTVR10**
SM/SMX/SF/SFX/SD/SDX/PLA/PHD Technical uprights	1200	1075	**NSYTVR12**
SM/SMX/SF/SFX/SD/SDX/PLA/PHD Technical uprights	1250	1125	**NSYTVR125**
SM/SMX/SF/SFX/SD/SDX/PLA/PHD Technical uprights	1400	1275	**NSYTVR14**
SM/SMX/SF/SFX/SD/SDX/PLA/PHD Technical uprights	1500	1375	**NSYTVR15**
SM/SMX/SF/SFX/SD/SDX/PLA/PHD Technical uprights	1600	1475	**NSYTVR16**
SM/SMX/SF/SFX/SD/SDX/PLA/PHD Technical uprights	1800	1675	**NSYTVR18**
SM/SMX/SF/SFX/SD/SDX Technical uprights	2000	1875	**NSYTVR20**
SM/SMX/SF/SFX/SD/SDX/PLA/PHD Technical uprights	2200	2075	**NSYTVR22**

SM SMX SF SFX Standard uprights

Telequick

- Vertical uprights for fixing plates and rails.
- They can be fixed on the mounting plate fixing brackets or on the upright fixing bracket, ref. **NSYMFB**.
- Adjustable height with a pitch of 25 or 50 mm.
- Material: Galvanised steel
- Thickness: 20/10e mm



Supply:
Set of two uprights


NSYVR18

Characteristics	Height (mm)	A (mm)	References
SM/SMX/SF/SFX Standard uprights	1800	1696	**NSYVR18**
SM/SMX/SF/SFX Standard uprights	2000	1896	**NSYVR20**
SM/SMX/SF/SFX Standard uprights	2200	2096	**NSYVR22**

Nuts and screws for technical uprights




NSYSNSM6


NSYSNM6


NSYCNM6


AF1VA612

Characteristics	Supply (units)	References
M6 quarter-turn sliding nut	10	**NSYSNM6**
M8 quarter-turn sliding nut	10	**NSYSNM8**
M6 quarter-turn serrated sliding nut	10	**NSYSNSM6**
M8 quarter-turn serrated sliding nut	10	**NSYSNSM8**
M6 renovable nut	50	**NSYCNM6**
M8 renovable nut	50	**NSYCNM8**
M6 x 12 screw	100	**AF1VA612**
M6 x 18 screw	100	**AF1VA618**
M8 x 20 screw	100	**AF1VC820**

Nuts and screws for standard uprights


NSYFNM6


AF1VA612

Characteristics	Supply (units)	References
M6 flat nut	50	**NSYFNM6**
M8 flat nut	50	**NSYFNM8**
M6 x 12 screw	100	**AF1VA612**
M6 x 18 screw	100	**AF1VA618**
M8 x 20 screw	100	**AF1VC820**

Bracket for fixing uprights

- Brackets for fixing the uprights, standard or technical, at the same level as the structure, obtaining a greater working surface inside the enclosure.
- They allow two pairs of uprights to be fixed back to back, doubling the working surface.
- The brackets are fixed to the structure by means of M6 self-tapping screws.
- Adjustable depth with a pitch of 25 mm.
- Material: Zinc-coated steel.

Supply:
Four brackets for fixing uprights and fixing elements.


NSYMFB

Characteristics	References
Bracket for fixing uprights	**NSYMFB**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Other support brackets

SM SMX SF SFX SD SDX Rail support bracket


NSYFB45

- Bracket for fixing rails at an angle of 45°.
- Material: Zinc-coated steel
- Insallation: Spacial SF: Mounted on the structure and/or mounting plates
  Spacial SM: Mounted on the bottom mounting rail and/or mounting plates



Telequick

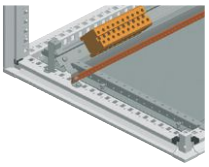
Supply:
Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)

Characteristics	References
Rail support bracket	**NSYFB45**

Combined support bracket


NSYETF

- Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.
- Material: Zinc-coated steel
- Insallation: Spacial SF: Directly on the structure and/or using mounting plates
  Spacial SM: On the bottom adjustment rails and/or on mounting plates



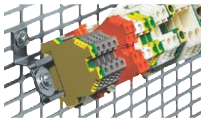
Supply:
Ten combined support brackets and fixing elements. Referenceby unit. Order by multiples of 10 (10, 20, 30...)

Characteristics	References
Combined support bracket	**NSYETF**

Terminal-block support bracket


NSYEDCO

- They allow the mounting of a DIN rail.
- Tilted to 45°.
- Material: Treated steel



Telequick

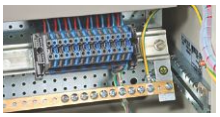
Supply:
Two lugs and fixings

Characteristics	References
Terminal-block support bracket	**NSYEDCO**

Combined fixing lugs for the earthing strip


NSYEDCOC

- They allow the mounting of an earth collector rail and a DIN rail.
- Tilted to 30°.
- Earthing strip, ref. **NSYECB1M153**. See page 295.



Telequick

Supply:
Two fixing lugs and fixing elements

Characteristics	References
Combined fixing lugs for the earthing strip	**NSYEDCOC**

Combined support bracket (vertical)


DZ5MS10

- Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.
- Material: Zinc-coated steel
- Installation: Spacial SF/SM: Directly on the vertical structure and/or using mounting plates



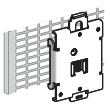
Supply:
10 brackets

Characteristics	References
Combined support bracket (vertical)	**DZ5MS10**

Clicked support plate


AX2DL01

- For screw mounted equipment.
- For mounting on 35 mm symmetric and double profile DIN rails or Telequick mounting plate.
- Material: Zinc-plate coated



Telequick

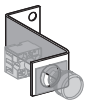
Supply:
Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)

Characteristics	References
Clicked support plate, 44 x 65 - 9 screws	**AX2DL01**
Clicked support plate, 49 x 65 - 4 screws	**AX2DL02**

Bracket for fixing control units (Ø 22)


DX1AP52

- To mount any 22 mm diameter device directly on mounting plates.



Telequick

Supply:
Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)

Characteristics	References
Bracket for fixing control units (Ø 22)	**DX1AP52**

10

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Cross rails and profiles for floorstanding enclosures

SM | SMX | SF | SFX | SD | SDX

Telequick

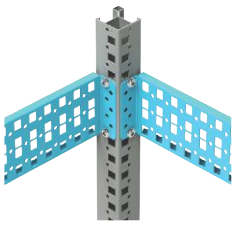
In the Spacial SF, SM, SFX and SMX enclosures, it is possible to create a fixing at any point of the inner volume, providing mounting planes with different widths, heights and depths. In the case of the Spacial SM, it may be necessary to install vertical/horizontal adaptation profiles and 40 mm universal cross rails (one row).

New



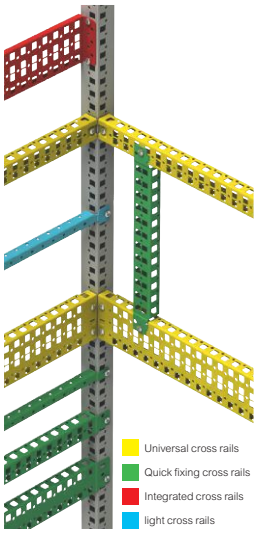
Four types of cross rails are available to create fixing points:
- Universal cross rails (see page 244)
- Quick fixing cross rails (see page 245)
- Integrated cross rails (see page 246) New
- light cross rails (see page 246)

Universal, quick fixing and integrated cross rails are available in 3 sizes:
- 40 mm (1 row)
- 65 mm (2 rows)
- 90 mm (3 rows)

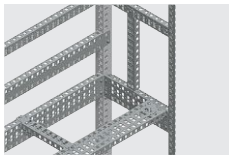


Cross rails for specific applications are also available:
- Cross rails for heavy loads (see page 247) to be fixed on the bottom part of of the enclosure or to be associated with a "heavy load kit" (see page 250) to be used at any height in the enclosure
- Cross rails fo Lütze chassis (see page 247)

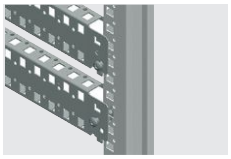




Combination examples



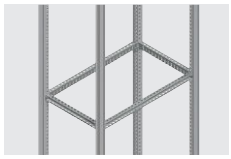
Spacial SF and SFX:
The cross rails can be fixed to the structure and among each other, offering multiple possibilities.



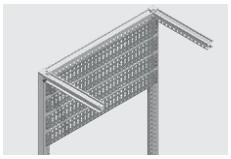
The quick fixing cross rails can be fixed directly to the structure, quickly and easily.
Spacial SF and SFX*:
- They clip onto the structure and are fixed by M6 self-tapping screws, or optionally with M6 caged nuts.

Spacial SM:
- Possibility of clipping onto the adaptation profile or another cross rail.
- Fixing by means of M6 self-tapping screws.
- Fixing by means of M6 caged nuts.

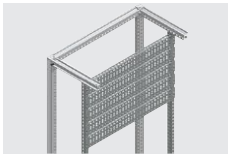
* In enclosures Spacial SFX is not possible to mount it in depth.



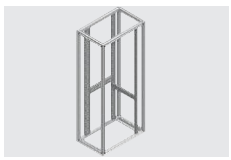
Universal cross rails and integrated cross rails can be simultaneously mounted at the same height, on all the sides of the enclosure.
To perform this type of installation in a Spacial SM enclosure, the vertical adaptation profile and the vertical 40 mm universal cross rail (one row) are required, mounted in the back of the enclosure.



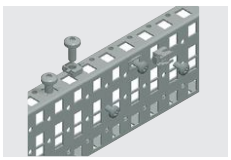
Quick fixing cross rails can be used to support equipments at the back of the enclosure or be fixed every 25 mm on two cross rails (universal or integrated) in vertical position.



40 mm wide universal and integrated cross rails can be used as uprights, adjustable every 25 mm in depth. They enable the fixing of diverse equipment supports and are adjustable every 25 mm in height.



Spacial SF:
Universal cross rails and integrated cross rails can be mounted in vertical position.



The main fixing point to the quick fixing cross rails is the 5.2 mm drill hole for M6 self-tapping screw, although they can also receive M6 and M8 caged nuts.

10

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Cross rails for floor-standing enclosures

SM SMX SF SFX SD SDX Universal cross rails

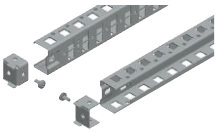
Telequick

- Used for the creation of structures inside the enclosure.
- Cross rails available in three sizes:
  40 mm (one row), 65 mm (two rows) and 90 mm (three rows).
- Each row is perforated every 25 mm with a 5.2 mm diameter hole and a 11x13 mm cutout which enables fixing by means of M6 self-tapping screws, ref **NSYST30M6S**.
- Equipment are fixed by means of caged nuts or self-tapping screws.
- Material: Zinc-coated steel
- Thickness: 15/10e mm

Fixing to the structure:
Fixing accordingly to uprights axis.
Possibility to mount cross rails simultaneously on all sides, at the same height of the enclosure.

Comment:
(1) For vertical assembly only.
(2) Cross rails only for fixing cables.
(3) These cross rails have not been sized to be used in the width, depth or height of the enclosure, but to be mounted in other positions or in between cross rails.
Dimensions see page 301

Supply:
Two cross rails, four supports for cross rails and fixing elements


NSYSUCR4030

Characteristics	Width of the cross rails (mm)	H / L / P (Dn) of cubicle (mm)	Maximum load by rail (kg)	References
Universal cross rails	40 (1 row)	300	70	**NSYSUCR4030**
Universal cross rails	40 (1 row)	400	60	**NSYSUCR4040**
Universal cross rails	40 (1 row)	500	60	**NSYSUCR4050**
Universal cross rails	40 (1 row)	600	50	**NSYSUCR4060**
Universal cross rails	40 (1 row)	700 (3)	50	**NSYSUCR4070**
Universal cross rails	40 (1 row)	800	40	**NSYSUCR4080**
Universal cross rails	40 (1 row)	900 (3)	40	**NSYSUCR4090**
Universal cross rails	40 (1 row)	1000	30	**NSYSUCR40100**
Universal cross rails	40 (1 row)	1100 (3)	30	**NSYSUCR40110**
Universal cross rails	40 (1 row)	1200	20	**NSYSUCR40120**
Universal cross rails	40 (1 row)	1400	(1)	**NSYSUCR40140**
Universal cross rails	40 (1 row)	1600	(1)	**NSYSUCR40160**
Universal cross rails	40 (1 row)	1800	(1)	**NSYSUCR40180**
Universal cross rails	40 (1 row)	2000	(1)	**NSYSUCR40200**
Universal cross rails	40 (1 row)	2200	(1)	**NSYSUCR40220**
Universal cross rails	65 (2 rows)	300	110	**NSYSUCR6530**
Universal cross rails	65 (2 rows)	400	100	**NSYSUCR6540**
Universal cross rails	65 (2 rows)	500	90	**NSYSUCR6550**
Universal cross rails	65 (2 rows)	600	80	**NSYSUCR6560**
Universal cross rails	65 (2 rows)	800	70	**NSYSUCR6580**
Universal cross rails	65 (2 rows)	1000	50	**NSYSUCR65100**
Universal cross rails	65 (2 rows)	1200	50	**NSYSUCR65120**
Universal cross rails	65 (2 rows)	1400	(1)	**NSYSUCR65140**
Universal cross rails	65 (2 rows)	1600	(1)	**NSYSUCR65160**
Universal cross rails	65 (2 rows)	1800	(1)	**NSYSUCR65180**
Universal cross rails	65 (2 rows)	2000	(1)	**NSYSUCR65200**
Universal cross rails	65 (2 rows)	2200	(1)	**NSYSUCR65220**
Universal cross rails	90 (3 rows)	300	130	**NSYSUCR9030**
Universal cross rails	90 (3 rows)	400	120	**NSYSUCR9040**
Universal cross rails	90 (3 rows)	500	120	**NSYSUCR9050**
Universal cross rails	90 (3 rows)	600	110	**NSYSUCR9060**
Universal cross rails	90 (3 rows)	700 (3)	110	**NSYSUCR9070**
Universal cross rails	90 (3 rows)	800	100	**NSYSUCR9080**
Universal cross rails	90 (3 rows)	900 (3)	100	**NSYSUCR9090**
Universal cross rails	90 (3 rows)	1000	70	**NSYSUCR90100**
Universal cross rails	90 (3 rows)	1100 (3)	70	**NSYSUCR90110**
Universal cross rails	90 (3 rows)	1200	70	**NSYSUCR90120**
Universal cross rails	90 (3 rows)	1400	(1)	**NSYSUCR90140**
Universal cross rails	90 (3 rows)	1600	(1)	**NSYSUCR90160**
Universal cross rails	90 (3 rows)	1800	(1)	**NSYSUCR90180**
Universal cross rails	90 (3 rows)	2000	(1)	**NSYSUCR90200**
Universal cross rails	90 (3 rows)	2200	(1)	**NSYSUCR90220**

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Cross rails for floor-standing enclosures

SM SMX SF SFX SD SDX

Quick fixing cross rails

Telequick


NSYSQCR4040

- Used for the creation of structures inside the enclosure.
- Cross rails available in three sizes:
  40 mm (one row), 65 mm (two rows) and 90 mm (three rows).
- Each row is perforated every 25 mm with a 5.2 mm diameter hole and a 11x13 mm cutout which enables fixing by means of M6 self-tapping screws, ref **NSYST30M6S**.
- Equipment are fixed by means of caged nuts or self-tapping screws.
- Material: Zinc-coated steel
- Thickness: 15/10e mm

Fixing to the structure:
Fixing accordingly to uprights axis.
No possibility to mount two cross rails at the same level of an upright.

Comment:
(1) For vertical assembly only.
(2) Cross rails only for fixing cables.
(3) These cross rails have not been sized to be used in the width, depth or height of the enclosure, but to be mounted in other positions or in between cross rails.
Dimensions see page 301

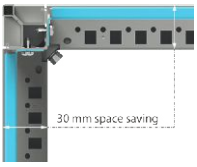
Supply:
Two cross rails and fixing elements

Characteristics	Width of the cross rails (mm)	H / L / P (Dn) of cubicle (mm)	Maximum load by rail (kg)	References
Quick fixing cross rails	40 (1 row)	400	60	**NSYSQCR4040**
Quick fixing cross rails	40 (1 row)	500	60	**NSYSQCR4050**
Quick fixing cross rails	40 (1 row)	600	50	**NSYSQCR4060**
Quick fixing cross rails	40 (1 row)	800	40	**NSYSQCR4080**
Quick fixing cross rails	40 (1 row)	1000	30	**NSYSQCR40100**
Quick fixing cross rails	40 (1 row)	1200	20	**NSYSQCR40120**
Quick fixing cross rails	65 (2 rows)	400	100	**NSYSQCR6540**
Quick fixing cross rails	65 (2 rows)	500	90	**NSYSQCR6550**
Quick fixing cross rails	65 (2 rows)	600	80	**NSYSQCR6560**
Quick fixing cross rails	65 (2 rows)	800	70	**NSYSQCR6580**
Quick fixing cross rails	65 (2 rows)	1000	50	**NSYSQCR65100**
Quick fixing cross rails	65 (2 rows)	1200	50	**NSYSQCR65120**
Quick fixing cross rails	90 (3 rows)	400	120	**NSYSQCR9040**
Quick fixing cross rails	90 (3 rows)	500	120	**NSYSQCR9050**
Quick fixing cross rails	90 (3 rows)	600	110	**NSYSQCR9060**
Quick fixing cross rails	90 (3 rows)	800	100	**NSYSQCR9080**
Quick fixing cross rails	90 (3 rows)	1000	70	**NSYSQCR90100**
Quick fixing cross rails	90 (3 rows)	1200	70	**NSYSQCR90120**

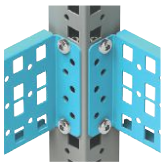
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Cross rails for floor-standing enclosures

Integrated cross rails



30 mm space saving thanks to new fixation mode


Quick mounting, at same level, on all enclosure perimeter

- Used for the creation of structures inside the enclosure.
- Cross rails available in three sizes:
  40 mm (one row), 65 mm (two rows) and 90 mm (three rows).
- Each row is perforated every 25 mm with a 5.2 mm diameter hole and a 11x13 mm cutout which enables fixing by means of M6 self-tapping screws, ref **NSYST30M6S**.
- Equipment are fixed by means of caged nuts or self-tapping screws
- Material: Zinc-coated steel
- Thickness: 15/10^{e} mm

Fixing to the structure:
Fixing is shifted by 30 mm relatively to uprights axis.
Possibility to mount cross rails simultaneously on all sides, at the same height of the enclosure.

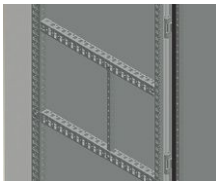
Comment:
Dimensions see page 301

Supply:
Two cross rails and fixing elements


NSYSICR4030

Characteristics	Width of the cross rails (mm)	H / L / P (Dn) of cubicle (mm)	Maximum load by rail (kg)	References
Integrated cross rails	40 (1 row)	300	70	**NSYSICR4030** New
Integrated cross rails	40 (1 row)	400	60	**NSYSICR4040** New
Integrated cross rails	40 (1 row)	500	60	**NSYSICR4050** New
Integrated cross rails	40 (1 row)	600	50	**NSYSICR4060** New
Integrated cross rails	40 (1 row)	800	40	**NSYSICR4080** New
Integrated cross rails	40 (1 row)	1000	30	**NSYSICR40100** New
Integrated cross rails	40 (1 rows)	1200	20	**NSYSICR40120** New
Integrated cross rails	65 (2 rows)	300	110	**NSYSICR6530** New
Integrated cross rails	65 (2 rows)	400	100	**NSYSICR6540** New
Integrated cross rails	65 (2 rows)	500	90	**NSYSICR6550** New
Integrated cross rails	65 (2 rows)	600	80	**NSYSICR6560** New
Integrated cross rails	65 (2 rows)	800	70	**NSYSICR6580** New
Integrated cross rails	65 (2 rows)	1000	50	**NSYSICR65100** New
Integrated cross rails	65 (2 rows)	1200	50	**NSYSICR65120** New
Integrated cross rails	90 (3 rows)	300	130	**NSYSICR9030** New
Integrated cross rails	90 (3 rows)	400	120	**NSYSICR9040** New
Integrated cross rails	90 (3 rows)	500	120	**NSYSICR9050** New
Integrated cross rails	90 (3 rows)	600	110	**NSYSICR9060** New
Integrated cross rails	90 (3 rows)	800	100	**NSYSICR9080** New
Integrated cross rails	90 (3 rows)	1000	70	**NSYSICR90100** New
Integrated cross rails	90 (3 rows)	1200	70	**NSYSICR90120** New

SM SF SFX Light cross rails



- **Spacial SF and SFX:** Direct fixing to the structure or between cross rails.
- **Spacial SM:** Fixing by means of adaptation profiles and 40 mm universal cross rails (one row), or between cross rails in any other position.
- Adjustable with a pitch of 25 mm.
- The light cross rails are equipped with a row of drill holes with a diameter of 5.2 mm and a pitch of 25 mm, which allows fixing with an M6 self-tapping screw, ref. **NSYST30M6S**.
- Material: Zinc-coated steel

Comment:
Dimensions see page 301

Supply:
Two light cross rails and fixing elements


NSYSLCR40

Characteristics	Width/Depth (mm)	References
Spacial SF/SFX/SM Light cross rails	400	**NSYSLCR40**
Spacial SF/SFX/SM Light cross rails	500	**NSYSLCR50**
Spacial SF/SFX/SM Light cross rails	600	**NSYSLCR60**
Spacial SF/SFX/SM Light cross rails	800	**NSYSLCR80**

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Cross rails for floor-standing enclosures

SF Rails for heavy loads



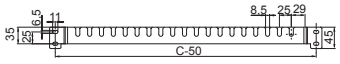
- They can be mounted with a cable gland plate or with a previously mounted mounting plate.
- Laterally adjustable with a pitch of 25 mm.
- Elongated holes, for adjusting the centre-to-centre distance of the switchgear.
- Fixing to the structure: Directly fixed on the bottom frame of the enclosure
- Thickness: 30/10e mm
- Material: Galvanised steel

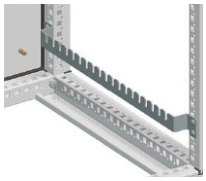
Supply:
Two rails for heavy loads and fixing elements


NSYHLCR40

Characteristics	Maximum load (kg)	Depth (mm)	References	
Rail for heavy loads	575	400	**NSYHLCR40**	New
Rail for heavy loads	525	500	**NSYHLCR50**	New
Rail for heavy loads	500	600	**NSYHLCR60**	New
Rail for heavy loads	500	700	**NSYHLCR70**	New
Rail for heavy loads	475	800	**NSYHLCR80**	New

SF Cross rail for Lütze chassis



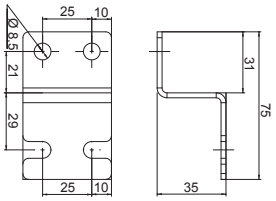

NSYLCR40

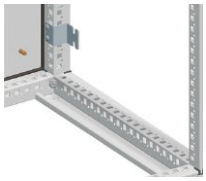
- Cross rail for fixing and adjusting the depth of the Lütze chassis.
- Thickness: 25/10e mm
- Material: Galvanised steel

Supply:
Six cross rails for Lütze chassis and fixingelements

Characteristics	Depth (mm)	References
Cross rail for Lütze chassis	400	**NSYLCR40**
Cross rail for Lütze chassis	500	**NSYLCR50**
Cross rail for Lütze chassis	600	**NSYLCR60**

Support for Lütze chassis




NSYLSUP

- Support for installing Lütze chassis in the back of the enclosure.
- Thickness: 25/10e mm
- Material: Galvanised steel

Comment:
Dimensions see page 301

Supply:
Six supports and fixing elements

Characteristics	References
Spacial SF Support for Lütze chassis	**NSYLSUP**

10

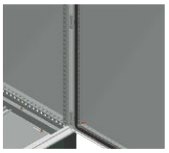
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Profiles for floor-standing enclosures

SM Vertical adaptation profiles


NSYSMVR12

- The vertical adaptation profiles provide fixing points at the entrance to the enclosure.
- Fixing on the screws of the hinge and catches of the lock.
- Allows the depthwise fixing of cross rails, etc.
- Thickness: 15/10e mm
- Material: Zinc-coated steel



Comment:
Dimensions see page 302

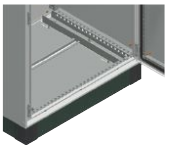
Supply:
2 vertical adaptation profiles and fixing screws

Characteristics	Height (mm)	References
Vertical adaptation profiles	1200	**NSYSMVR12**
Vertical adaptation profiles	1400	**NSYSMVR14**
Vertical adaptation profiles	1600	**NSYSMVR16**
Vertical adaptation profiles	1800	**NSYSMVR18**
Vertical adaptation profiles	2000	**NSYSMVR20**

SM Horizontal adaptation profiles


NSYSMHR6

- The horizontal adaptation profiles provide fixing points at the entrance to the enclosure.
- Thickness: 15/10e mm
- Material: Zinc-coated steel



Comment:
Dimensions see page 302

Supply:
2 horizontal adaptation profiles and fixing screws

Characteristics	Width (mm)	References
Horizontal adaptation profiles	600	**NSYSMHR6**
Horizontal adaptation profiles	800	**NSYSMHR8**
Horizontal adaptation profiles	1000	**NSYSMHR10**
Horizontal adaptation profiles	1200	**NSYSMHR12**
Horizontal adaptation profiles	1600	**NSYSMHR16**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Standard supports

SM SF Fixed tray

Options for fixing the tray to the enclosure:
If the tray has the same dimensions as the enclosure:
- Spacial SF: Direct fixing to the structure.
- Spacial SFX: Instalation possible only with universal cross rails, see page 244.
- Spacial SM: Fixing by means of adaptation profiles and 40 mm universal cross rails (1 row) in vertical position.

If the tray is smaller than the dimensions of the enclosure:
- fixing on depth cross rails.
- Depth-adjustable tray with a pitch of 25 mm.

- Provided with cut-outs for improving air circulation inside.
- Material: Steel
- Finish: Painted with epoxy polyester resin
- Colour: RAL 7035 grey
- Maximum load: 150 kg direct fixed to the structure, 40 kg when universal cross rails are used

Supply:
1 fixed tray and fixing elements


NSYFXT6040

Characteristics	Depth (mm)	Width (mm)	References
Fixed tray	400	600	**NSYFXT6040**
Fixed tray	400	800	**NSYFXT8040**
Fixed tray	500	600	**NSYFXT6050**
Fixed tray	500	800	**NSYFXT8050**
Fixed tray	600	600	**NSYFXT6060**
Fixed tray	600	800	**NSYFXT8060**
Fixed tray	800	800	**NSYFXT8080**

SM SF Telescopic rails

Options for fixing the tray to the enclosure:
- Spacial SF: Installation directly on the structure of the enclosure or on universal cross rails.
- Spacial SFX: Instalation possible only with universal cross rails, see page 244.
- Spacial SM: Installation by means of adaptation profiles and 40 mm universal cross rails (1 row) in vertical position, or on horizontal universal cross rails.

The installation of a telescopic tray consists of the following:
- 1 fixed tray.
- 2 telescopic rails.

- End-of-travel stop of the rails in open and closed position.
- Material: Zinc-coated steel
- Finish: Painted with epoxy polyester resin
- Maximum load: 25 kg evenly distributed

Supply:
2 telescopic rails and fixing elements


NSYTTG40

Characteristics	Depth (mm)	Width (mm)	References
Telescopic rails	400	600/800	**NSYTTG40**
Telescopic rails	500	600/800	**NSYTTG50**
Telescopic rails	600/800	600/800	**NSYTTG60**

Handle for telescopic trays

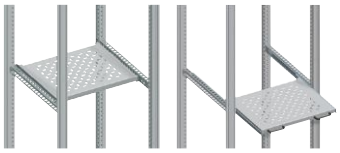
- Designed for easy extraction of the sliding trays.
- Material: Polyamide 6 (black).

Supply:
2 units and fixing elements

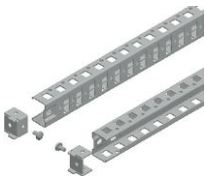

NSY1TH

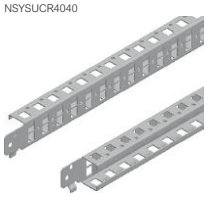
Characteristics	References
Handle for telescopic trays	**NSY1TH**

SM SMX SF SFX Tray cross rails



- Allow the installation of fixed trays and telescopic rails. Quick and universal cross rails, see page 244 - 245


NSYSUCR4040


NSYSQCR4040

Characteristics	Depth (mm)	References
Tray cross rails, Universal cross rail, 40 mm (1 row)	400	**NSYSUCR4040**
Tray cross rails, Universal cross rail, 40 mm (1 row)	500	**NSYSUCR4050**
Tray cross rails, Universal cross rail, 40 mm (1 row)	600	**NSYSUCR4060**
Tray cross rails, Universal cross rail, 40 mm (1 row)	800	**NSYSUCR4080**
Tray cross rails, Quick fixing cross rail, 40 mm (1 row)	400	**NSYSQCR4040**
Tray cross rails, Quick fixing cross rail, 40 mm (1 row)	500	**NSYSQCR4050**
Tray cross rails, Quick fixing cross rail, 40 mm (1 row)	600	**NSYSQCR4060**
Tray cross rails, Quick fixing cross rail, 40 mm (1 row)	800	**NSYSQCR4080**

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Heavy load supports

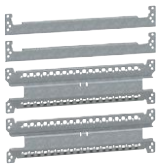
SF Heavy load kit

- 4 parts designed to strengthen installation supports (shelves or cross rails) in case of heavy loads.
- Several kits can be set up in the same enclosure as long as the maximum load of 1000 kg is not exceeded.
- Strengthen the stiffness of the enclosure.
- Supports set up in the depth direction embed cut outs to help secure equipment fixing.
- Material: Steel
- Colour: RAL 7035 grey
- Maximum load: Up to 350 kg

The kit can be used with following rails:
- standard crossrails delivered with Spacial SF,
- quick fixing cross rails **NSYSQCR●●●●**,
- DIN rails **NSYSDR●●** and **NSYDPR●●**,
- **NSYCN●●** rails,
- heavy load cross rails **NSYHLCR●●**.

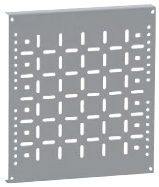
Comment:
Combination examples
see page 302

Supply:
2 cross rails (front/rear)
+ 2 supports to be mounted according to depth direction

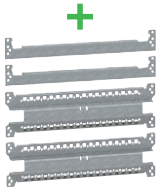

NSYSHLT6040

Characteristics	Depth (mm)	Width (mm)	References
Heavy load kit	400	600	**NSYSHLT6040** New
Heavy load kit	400	800	**NSYSHLT8040** New
Heavy load kit	600	600	**NSYSHLT6060** New
Heavy load kit	600	800	**NSYSHLT8060** New
Heavy load kit	800	600	**NSYSHLT6080** New
Heavy load kit	800	800	**NSYSHLT8080** New

SF Ventilated shelf


NSYDHLT6040

+


NSYSHLT6040

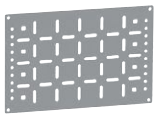
- Ventilation is ensured by two cut-out sizes:
  11 x 13 mm rectangles for fixation on both sides with self- tapping screws,
  40 x 8.5 mm rectangles.
- The ventilated shelf must be fixed in the enclosure with a heavy load kit.
- Material: Steel
- Colour: RAL 7035 grey
- Maximum load: 350 kg



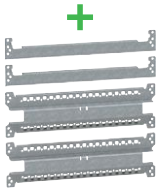
Supply:
1 tray and fixing elements

Characteristics	Tray dimensions W x D x H (mm)	Depth (mm)	Width (mm)	References
Ventilated shelf	500 x 359 x 50	400	600	**NSYDHLT6040** New
Ventilated shelf	700 x 359 x 50	400	800	**NSYDHLT8040** New
Ventilated shelf	500 x 559 x 50	600	600	**NSYDHLT6060** New
Ventilated shelf	700 x 559 x 50	600	800	**NSYDHLT8060** New
Ventilated shelf	500 x 759 x 50	800	600	**NSYDHLT6080** New
Ventilated shelf	700 x 759 x 50	800	800	**NSYDHLT8080** New

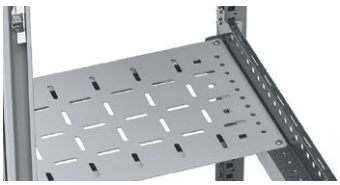
SF Partially ventilated shelf


NSYPPHLT6040

+


NSYSHLT6040

- in order to support the maximum load, the shelf must be mounted either in the rear or in the front of the enclosure.
- An intermediary cross rail must be set up in the middle to bear a heavy loads.
- Ventilation is ensured by two cut-out sizes:
  11 x 13 mm rectangles for fixation on both sides with selftapping screws,
  40 x 8.5 mm rectangles.
- The partially ventilated shelf must be fixed in the enclosure with a heavy load kit.
- Material: Steel
- Colour: RAL 7035 grey
- Maximum load: 250 kg



Supply:
1 tray and fixing elements

Characteristics	Tray dimensions W x D x H (mm)	Depth (mm)	Width (mm)	References
Partially ventilated shelf	500 x 325 x 2	400	600	**NSYPPHLT6040** New
Partially ventilated shelf	700 x 325 x 2	400	800	**NSYPPHLT8040** New

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

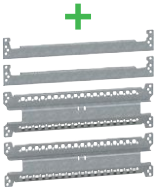
Heavy load supports

SF Plain shelf for battery



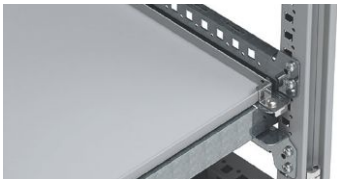
NSYPHLT6040

+



NSYSHLT6040

- Painted shelf with rims to avoid potential liquid leakage.
- Electrical continuity is ensured by specific staples.
- Acces and replacement (thus maintenance) are eased by mounting brackets.
- The plain shelf must be fixed in the enclosure with a heavy load kit.
- Material: Steel
- Colour: RAL 7035 grey
- Maximum load: 350 kg



Supply:
1 tray and fixing elements

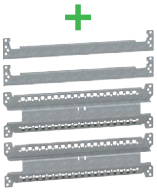
Characteristics	Tray dimensions W x D x H (mm)	Depth (mm)	Width (mm)	References	
Plain shelf for battery	500 x 300 x 16	400	600	**NSYPHLT6040**	New
Plain shelf for battery	700 x 300 x 16	400	800	**NSYPHLT8040**	New
Plain shelf for battery	500 x 500 x 16	600	600	**NSYPHLT6060**	New
Plain shelf for battery	700 x 500 x 16	600	800	**NSYPHLT6080**	New
Plain shelf for battery	500 x 700 x 16	800	600	**NSYPHLT6080**	New
Plain shelf for battery	700 x 700 x 16	800	800	**NSYPHLT8080**	New

SF Heavy load cross rails



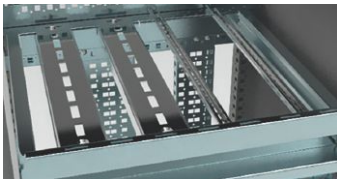
NSYHLCR40

+



NSYSHLT6040

- Can be fixed anywhere in the enclosure with a heavy load kit.
- Free space useful for thermal management.
- Nominal width of cross rails must be 100 mm shorter than the associated heavy load kit width.
- Material: Steel



Supply:
2 cross rails and fixing elements

Characteristics	Associated heavy load kit references	Maximum load (kg)	Nominal width (mm)	References	
Heavy load cross rails	Not usable with heavy load kit	575	400	**NSYHLCR40**	New
Heavy load cross rails	NSYSHLT6040 NSYSHLT6060 NSYSHLT6080	525	500	**NSYHLCR50**	New
Heavy load cross rails	Not usable with heavy load kit	500	600	**NSYHLCR60**	New
Heavy load cross rails	NSYSHLT8040 NSYHLT8060 NSYHLT8080	500	700	**NSYHLCR70**	New
Heavy load cross rails	Not usable with heavy load kit	475	800	**NSYHLCR80**	New

Heavy load supports



Combination examples



- Heavy load kit + Ventilated shelf



- Heavy load kit + Partially ventilated shelf



- Heavy load kit + Plain shelf for battery



- Heavy load kit + Heavy load cross rails

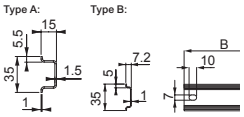
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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

S3D S3X PLM Symmetric mounting rail for the wall-mounting enclosures

Telequick

- 2 types: Type A: 35 x 15 mm, Type B: 35 x 7.5 mm
- Material: Zinc-coated steel
- Standards: IEC 715
- Thickness: Type A: 15/10e mm, Type B: 10/10e mm
- Fixing: Fixed to mounting plates or another fixing elements, uprights not included in the supply



Supply:
10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units(10, 20, etc.)

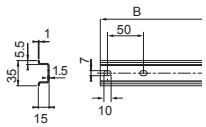

NSYSDR30B

Characteristics	Type	Enclosure width (mm)	Rail length (mm)	References
Symmetric mounting rail for the wall-mounting enclosures	B	300	250	**NSYSDR30B**
Symmetric mounting rail for the wall-mounting enclosures	B	400	350	**NSYSDR40B**
Symmetric mounting rail for the wall-mounting enclosures	A	500	450	**NSYSDR50A**
Symmetric mounting rail for the wall-mounting enclosures	A	600	550	**NSYSDR60A**
Symmetric mounting rail for the wall-mounting enclosures	A	800	750	**NSYSDR80A**
Symmetric mounting rail for the wall-mounting enclosures	A	1000	950	**NSYSDR100A**

SM SMX SF SFX SD SDX Symmetric DIN rails forthe floor-standing enclosures

Telequick

- Help ensure horizontal continuity in case of enclosure assembly.
- Rail type: Type A: 35 x 15 mm.
- Material: Zinc-coated steel
- Standards: IEC 715
- Thickness: 15/10e mm
- Fixing: Fixed to the standard or technical upights (see page 241) or directly to the structure



Supply:
10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units(10, 20, etc.)

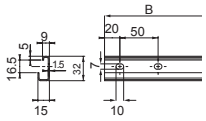

NSYSDR60

Characteristics	Enclosure width (mm)	Rail length (mm)	References
Symmetric DIN rail for the floor-standing enclosures	600	588	**NSYSDR60**
Symmetric DIN rail for the floor-standing enclosures	800	788	**NSYSDR80**
Symmetric DIN rail for the floor-standing enclosures	1000	988	**NSYSDR100**
Symmetric DIN rail for the floor-standing enclosures	1200	1188	**NSYSDR120**

Asymmetric DIN rails for the floor-standing enclosures

Telequick

- Help ensure horizontal continuity in the case of enclosure assembly.
- Material: Zinc-coated steel
- Standards: IEC 715
- Thickness: 15/10e mm
- Fixing: Fixed to the standard or technical upights (see page 241) or directly to the structure



Supply:
10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units(10, 20, etc.)

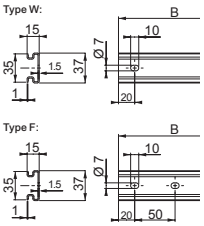

NSYADR60

Characteristics	Enclosure width (mm)	Rail length (mm)	References
Asymmetric DIN rail for the floor-standing enclosures	600	588	**NSYADR60**
Asymmetric DIN rail for the floor-standing enclosures	800	788	**NSYADR80**
Asymmetric DIN rail for the floor-standing enclosures	1000	988	**NSYADR100**
Asymmetric DIN rail for the floor-standing enclosures	1200	1188	**NSYADR120**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Double-profile DIN rails

- They combine the advantages of symmetric and asymmetric rails.
- Quick installation of terminals according to standard DIN 46277/1.
- Material: Zinc-coated steel
- Thickness: 15/10e mm
- Fixing: Fixed to the standard or technical upights (see page 303) or directly to the structure



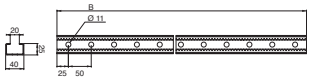
Supply:
10 rails and fixings for direct assembling to the structure. References by unit. Order by multiples of 10 units(10, 20, etc.)


NSYDPR25

Characteristics	Type	Enclosure width (mm)	Rail length (mm)	References
Double-profile DIN rail, for wall-mounting enclosure	W	300	250	**NSYDPR25**
Double-profile DIN rail, for wall-mounting enclosure	W	400	350	**NSYDPR35**
Double-profile DIN rail, for wall-mounting enclosure	W	500	450	**NSYDPR45**
Double-profile DIN rail, for wall-mounting enclosure	W	600	550	**NSYDPR55**
Double-profile DIN rail, for floor-standing enclosure	F	600	588	**NSYDPR60**
Double-profile DIN rail, for wall-mounting enclosure	W	700	650	**NSYDPR65**
Double-profile DIN rail, for wall-mounting enclosure	W	600	750	**NSYDPR75**
Double-profile DIN rail, for floor-standing enclosure	F	600	788	**NSYDPR80**
Double-profile DIN rail, for floor-standing enclosure	F	1000	988	**NSYDPR100**
Double-profile DIN rail, for floor-standing enclosure	F	1200	1188	**NSYDPR120**

Serrated C-shaped rail for heavy loads

- Marked in steps of 25 mm to facilitate switchgear positioning.
- Material: Zinc-coated steel
- Thickness: 20/10e mm



Supply:
2 rails with a length of 2 m

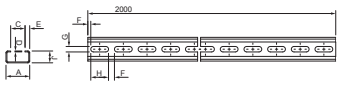

AM1EC200

Characteristics	Rail length (mm)	References
Serrated C-shaped rail for heavy loads	2000	**AM1EC200**

Symmetric C-shaped rails

- Rails for supporting and fixing switchgear on panels and enclosures, formation of chassis, racks and panel reinforcements.
- Material: Galvanised steel
- Fixing: They are fixed to the structure and to one another by means of fixing elements

Comment:
Dimensions see page 303



Supply:
References by unit. Order by multiples of 10 units(10, 20, etc.)


NSYCN20

Characteristics	Rail length (mm)	References
Symmetric C-shaped rails 21x11x10, not perforated	2000	**NSYCN20**
Symmetric C-shaped rails 21x11x10	2000	**NSYCNT20**
Symmetric C-shaped rails 40x20x24, not perforated	2000	**NSYCN40**
Symmetric C-shaped rails 40X20X24	2000	**NSYCNT40**

Combiplas nut for symmetric C-shaped rails


NSYBN206

Characteristics	Rail type	Nuts type	Supply	References
Combiplas nut for symmetric C-shaped rails	C20	M4	100	**NSYBN204**
Combiplas nut for symmetric C-shaped rails	C20	M6	100	**NSYBN206**
Combiplas nut for symmetric C-shaped rails	C40	M4	50	**NSYBN404**
Combiplas nut for symmetric C-shaped rails	C40	M6	50	**NSYBN406**
Combiplas nut for symmetric C-shaped rails	C40	M8	50	**NSYBN408**
Combiplas nut for symmetric C-shaped rails	C60	M6	20	**NSYBN606**
Combiplas nut for symmetric C-shaped rails	C60	M8	20	**NSYBN608**
Combiplas nut for symmetric C-shaped rails	C60	M10	20	**NSYBN610**

Metal sliding nut for symmetric C-shaped rails


NSYB204

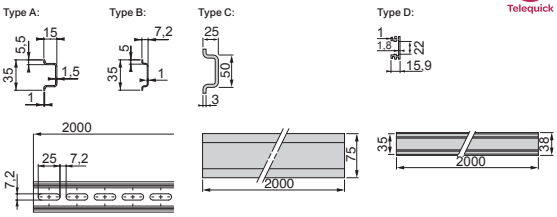
Characteristics	Rail type	Nuts type	Supply	References
Metal sliding nut for symmetric C-shaped rails	C20	M4	100	**NSYB204**
Metal sliding nut for symmetric C-shaped rails	C40	M4	100	**NSYB404**
Metal sliding nut for symmetric C-shaped rails	C40	M6	-	**NSYB406**

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2000 mm rails

Symmetric rails

Telequick



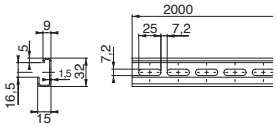
- Material: Galvanized steel, zinc-coated steel or aluminium
- Length: 2000 mm


NSYSDR200D

Characteristics	Type	Supply	Perforations	References
Symmetric rail, Galvanized steel	A	20	Perforated	**NSYSDR200D**
Symmetric rail, Galvanized steel	B	20	Perforated	**NSYSDR200BD**
Symmetric rail, Galvanized steel	A	20	Not perforated	**NSYSDR200**
Symmetric rail, Galvanized steel	B	20	Not perforated	**NSYSDR200B**
Symmetric rail, Zinc-coated steel	C	6	Not perforated	**AM1DL201**
Symmetric rail, Aluminium	D	10	Not perforated	**AM1EA200**

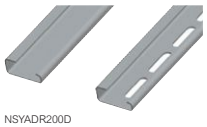
Asymmetric DIN rails

Telequick



Supply:
20 rails with a length of 2 m.
References by unit. Order by multiples of 20 units (20, 40, etc.)

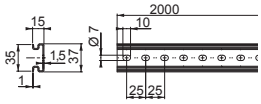
- Material: Galvanised steel
- Length: 2000 mm


NSYADR200D

Characteristics	Perforations	References
Asymmetric DIN rail	Perforated	**NSYADR200D**
Asymmetric DIN rail	Not perforated	**NSYADR200**

Double-profile DIN rails

Telequick



Supply:
20 rails with a length of 2 m.
References by unit. Order by multiples of 20 units (20, 40, etc.)

- Material: Galvanised steel
- Length: 2000 mm


NSYDPR200D

Characteristics	Thickness (mm)	Perforations	References
Double-profile DIN rail	15/10[e]	Perforated	**NSYDPR200D**
Double-profile DIN rail	10/10[e]	Perforated	**NSYDPR200T**
Double-profile DIN rail	15/10[e]	Not perforated	**NSYDPR200**

10

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Rail accessories

Nuts for symmetric rails




AF1GC4

Supply:
100 nuts

- Clip-on nut.

Characteristics	Type	References
Nuts for symmetric rails	M4	**AF1GC4**
Nuts for symmetric rails	M5	**AF1GC5**
Nuts for symmetric rails	M6	**AF1GC6**

Nuts for asymmetric DIN rails, 2000 mm version




DZ5ME5

Supply:
100 nuts

- Quarter-turn sliding nut.

Characteristics	Type	References
Nuts for asymmetric DIN rails, 2000 mm version	M4	**DZ5ME5**
Nuts for asymmetric DIN rails, 2000 mm version	M5	**DZ5ME8**
Nuts for asymmetric DIN rails, 2000 mm version	M6	**DZ5ME9**

Nuts for double-profile DIN rails




AF1CF34

Supply:
100 nuts

- Quarter-turn sliding nut.

Characteristics	Type	References
Nuts for double-profile DIN rails	M3 + M4	**AF1CF34**
Nuts for double-profile DIN rails	M5 + M6	**AF1CF56**

Nuts for serrated C-shaped rails




NSYSNM6


NSYSNSM6

Supply:
10 nuts

- Quarter-turn sliding nuts.

Characteristics	Type	References
M6 quarter-turn sliding nut	M6	**NSYSNM6**
M8 quarter-turn sliding nut	M8	**NSYSNM8**
M6 quarter-turn serrated sliding nut	M6	**NSYSNSM6**
M8 quarter-turn serrated sliding nut	M8	**NSYSNSM8**

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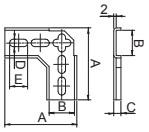
Connectors for symmetric C-shaped rails

- The connectors enable the formation of chassis or frames and structures for fixing switchgear, in any position inside the enclosures, allowing the fixing of DIN rails or other elements.
- See symmetric C-shaped rails.

EMA connectors


NSYEMA20

- To joint two symmetric C-shaped rails, C20 and C40 types, at right angles; They can also be used to obtain a T-shaped assembly.
- Material: Zinc-coated steel
- Thickness: 20/10[e] mm



Comment:
Dimensions
see page 304

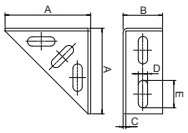
Supply:
20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

Characteristics	References
EMA connectors	**NSYEMA20**
EMA connectors	**NSYEMA40**

EVA connectors


NSYEVA20

- To join two symmetric C-shaped rails, C20 and C40 types, forming an overlapping assembly with plane change, or also at right angles for the formation of spacers or supports at a different level.
- Material: Zinc-coated steel

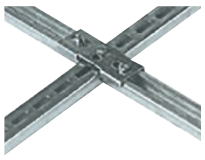


Comment:
Dimensions
see page 304

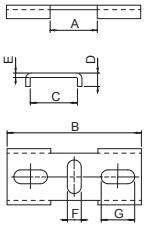
Supply:
20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

Characteristics	References
EVA connectors	**NSYEVA20**
EVA connectors	**NSYEVA40**

UCA connectors


NSYUCA22

- To join symmetric C-shaped rails, types C20 and C40, forming a cross-shaped assembly of three rails located on the same plane, for example inside a frame.
- Material: Zinc-coated steel

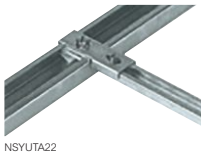


Comment:
Dimensions
see page 305

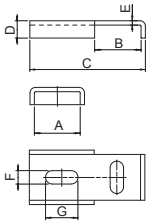
Supply:
20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

Characteristics	References
UCA connectors	**NSYUCA22**
UCA connectors	**NSYUCA44**

UTA connectors


NSYUTA22

- To create a T-shaped assembly between two symmetric C-shaped rails, C20 and C40 types, especially recommended for forming crossbars on chassis and frames.
- The **UTA42** connectors type allows C20 rails to be joined with C40 rails.
- Material: Zinc-coated steel



Comment:
Dimensions
see page 305

Supply:
20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

Characteristics	References
UTA connectors	**NSYUTA22**
UTA connectors	**NSYUTA42**
UTA connectors	**NSYUTA44**

10

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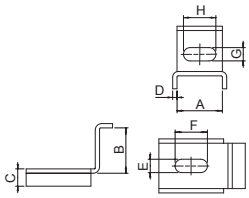
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Connectors for symmetric C-shaped rails

ECA connectors


NSYECA22

- To form a cross-shaped assembly with two symmetric C-shaped rails, C20 and C40 types, located perpendicularly on different planes.
- The **ECA42** connector type makes it possible to join C20 rails with C40 rails.
- Material: Zinc-coated steel



Comment:
Dimensions
see page 305

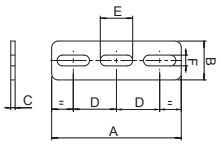
Supply:
20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

Characteristics	References
ECA connectors	**NSYECA22**
ECA connectors	**NSYECA42**
ECA connectors	**NSYECA44**

UR connectors


NSYUR20

- For rectilinear joining of symmetric C-shaped rails.
- Recommended when the standard length is not sufficient or for maximising fractions.
- Material: Zinc-coated steel



Comment:
Dimensions
see page 305

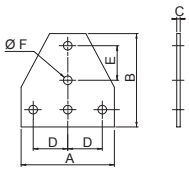
Supply:
20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

Characteristics	References
UR connectors	**NSYUR20**
UR connectors	**NSYUR40**
UR connectors	**NSYUR60**

UT connectors


NSYUT20

- To form T-shaped assemblies between symmetric C-shaped rails.
- They are used to form crossbars on frames and structures.
- Material: Zinc-coated steel



Comment:
Dimensions
see page 305

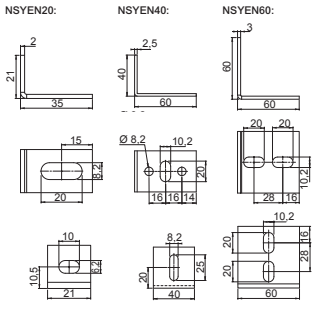
Supply:
20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

Characteristics	References
UT connectors	**NSYUT20**
UT connectors	**NSYUT40**
UT connectors	**NSYUT60**

EN connectors


NSYEN20

- To create L-shaped assemblies with plane change in the symmetric C-shaped rails, between them or with any other section.
- Material: Zinc-coated steel



Comment:
Dimensions
see page 305

Supply:
20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

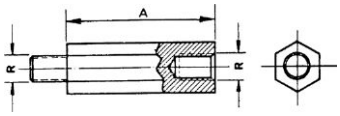
Characteristics	References
EN connectors	**NSYEN20**
EN connectors	**NSYEN40**
EN connectors	**NSYEN60**

10

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Spacers

Hexagonal spacers



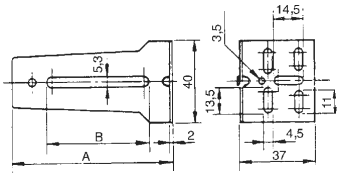
- Hexagonal spacers for raising switchgear, mounting plates, etc. They can be linked together to achieve variable heights with gradual elevation.
- Their assembly requires M6 or M8 caged nuts.
- Material: Zinc-coated steel
- Installation: If used to raise a mounting plate, the maximum load of the mounting plate is decreased

Supply:
100 hexagonal connectors.
References by unit.
Order by multiples of 100 units (100, 200, 300, etc.)


NSYE1025

Characteristics	Thread type	Spacer height (mm)	References
Hexagonal spacers	M5	10	**NSYE1025**
Hexagonal spacers	M5	15	**NSYE1525**
Hexagonal spacers	M5	20	**NSYE2025**
Hexagonal spacers	M6	10	**NSYEX106**
Hexagonal spacers	M6	12	**NSYEX126**
Hexagonal spacers	M6	14	**NSYEX146**
Hexagonal spacers	M6	16	**NSYEX166**
Hexagonal spacers	M6	18	**NSYEX186**
Hexagonal spacers	M6	20	**NSYEX206**
Hexagonal spacers	M6	30	**NSYEX306**
Hexagonal spacers	M6	40	**NSYEX406**
Hexagonal spacers	M6	50	**NSYEX506**
Hexagonal spacers	M6	100	**NSYEX1006**
Hexagonal spacers	M8	15	**NSYEX158**
Hexagonal spacers	M8	20	**NSYEX208**
Hexagonal spacers	M8	30	**NSYEX308**
Hexagonal spacers	M8	40	**NSYEX408**
Hexagonal spacers	M8	50	**NSYEX508**
Hexagonal spacers	M8	60	**NSYEX608**
Hexagonal spacers	M8	100	**NSYEX1008**

ETU modular spacers



Note:
Combination of spacers
see page 306

- Modular spacers for installing devices or rails at a different level from that achieved with the basic chassis or mounting plate.
- Material: Zinc-coated steel

Supply:
20 units. References by unit.
Order by multiples of 20 units (20, 40, 60, etc.)


NSYETU48

Characteristics	A (mm)	B (mm)	References
ETU modular spacers	48	25	**NSYETU48**
ETU modular spacers	58	25	**NSYETU58**
ETU modular spacers	79	55	**NSYETU79**
ETU modular spacers	118	55	**NSYETU118**

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19" Chassis

S3D S3X 19" fixed chassis for wall-mounting enclosure

- 19" fixed chassis comprising 2 19" uprights with fixing.
- Adjustable in depth by fixing on the step slides in accessories.
- Material: Galvanized steel
- Thickness: 20/10e mm
- Maximum load: 3 kg per unit


NSYVDM8UF

Characteristics	Enclosure dimensions (mm)		Unit number	References
	Height	Width		
19" fixed chassis for wall-mounting enclosure	400	600	8	**NSYVDM8UF**
19" fixed chassis for wall-mounting enclosure	600	600	12	**NSYVDM12UF**
19" fixed chassis for wall-mounting enclosure	800	600	17	**NSYVDM17UF**
19" fixed chassis for wall-mounting enclosure	1000	600	21	**NSYVDM21UF**

S3D S3X 19" swing chassis for wall-mounting enclosure

- 19" swing chassis opening to 120° with closure by 3 mm double bar insert.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Maximum load: 3 kg per unit


NSYVDM7UP

Characteristics	Enclosure dimensions (mm)		Unit number	References
	Height	Width		
19" swing chassis for wall-mounting enclosure	400	600	7	**NSYVDM7UP**
19" swing chassis for wall-mounting enclosure	600	600	11	**NSYVDM11UP**
19" swing chassis for wall-mounting enclosure	800	600	16	**NSYVDM16UP**
19" swing chassis for wall-mounting enclosure	1000	600	20	**NSYVDM20UP**
19" swing chassis for wall-mounting enclosure	1000	800	20	**NSYVDM20U8P**
19" swing chassis for wall-mounting enclosure	1200	800	25	**NSYVDM25U8P**

Fixings for 19" rack



- They allow 19" accessories to be mounted.
- Caged nut compatible with 8.5 x 8.5 mm and 9.5 x 9.5 mm holes.


NSYGFR95M63

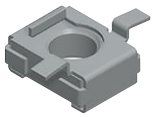
Characteristics	Batch of	References
M6 screws + washers + nuts	30	**NSYGFR95M63**
M6 x 16 screws and washers	50	**NSYGFR166P**
M6 caged nuts	100	**NSYCN9M625**
M6 screws + washers + nuts	50	**NSYGFR95M65**
M5 screws + washers + nuts	50	**NSYGFR95M55**

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Nuts and screws overview

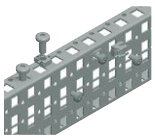
Characteristics	Clip-on nuts		Combiplas slide nuts					Screws with captive washer		
			 Combiplas nut			 Metal sliding nut		 Hexagonal head		
Usage	For Telequick mounting plates		C - shaped rail - 20/40/60 mm					All nuts		
										
Type	Supply	References	Rail type	Supply	References	Supply	References	Models	Supply	References
M3	**100**	**AF1EA3**	-	-	**-**	-	**-**	-	-	**-**
M4	**100**	**AF1EA4**	C20	**100**	**NSYBN204**	**100**	**NSYB204**	M4 x 10 mm	**100**	**AF1VA410**
M4	-	**-**	C40	**100**	**NSYBN404**	**100**	**NSYB404**	M4 x 16 mm	**100**	**AF1VA416**
M5	**100**	**AF1EA5**	-	-	**-**	-	**-**	M5 x 12 mm	**100**	**AF1VA512**
M5	-	**-**	-	-	**-**	-	**-**	M5 x 18 mm	**100**	**AF1VA518**
M6	**100**	**AF1EA6**	C20	**100**	**NSYBN206**	-	**-**	M6 x 12 mm	**100**	**AF1VA612**
M6	-	**-**	C40	**100**	**NSYBN406**	-	**-**	M6 x 18 mm	**100**	**AF1VA618**
M6	-	**-**	C60	**100**	**NSYBN606**	**100**	**NSYB406**	-	-	**-**
M8	-	**-**	C40	**100**	**NSYBN408**	-	**-**	M8 x 20 mm	**100**	**AF1VC820**
M8	-	**-**	C60	**100**	**NSYBN608**	-	**-**	-	-	**-**
M10	-	**-**	C60	**100**	**NSYBN610**	-	**-**	-	-	**-**

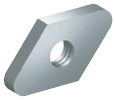
Supply:
References by unit. Order by multiples of the units specified in the supply.

Characteristics	Fixings and nuts for serrated uprights					Nuts for uprights and cross rails			
	 Fixing brackets		 1/4 turn		 Serrated 1/4 turn	 Removable nut		  Cage nut	
Usage	2 x serrated mounting uprights for floor-standing enclosures								
									
Type	Supply	References	Supply	References	References	Supply	References	Supply	References
M4	**4**	**NSYMFB**	-	**-**	**-**	-	**-**	-	**-**
M5	-	**-**	-	**-**	**-**	-	**-**	-	**-**
M6	-	**-**	**10**	**NSYSNM6**	**NSYSNSM6**	**50**	**NSYCNM6**	**50**	**NSYCNFM6**
M8	-	**-**	**10**	**NSYSNM8**	**NSYSNSM8**	**50**	**NSYCNM8**	**50**	**NSYCNFM8**
-	-	**-**	-	**-**	**-**	-	**-**	-	**-**
-	-	**-**	-	**-**	**-**	-	**-**	-	**-**

Supply:
References by unit. Order by multiples of the units specified in the supply.

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	Torx screws			Self-tapping screw			Fixings and nuts for aluminium uprights			
							 Sliding nuts	 Brass nuts		
	Nuts and 6 mm Spacial enclosures holes						Mounting uprights for wall-mounting enclosures			
										
	Models	Supply	References	Models	Supply	References	Supply	References	Supply	References
	-	-	-	-	-	-	-	-	4	NSYAMCSF
	-	-	-	-	-	-	100	NSYNM4		
	-	-	-	-	-	-	-	-		
	-	-	-	M5 x 13 mm	100	NSYS13M5HS	100	NSYNM5		
	-	-	-	M5 x 16 mm	100	NSYS16M5HS	-	-		
	T30 M6 x 16 mm	100	NSYST30M6	M6 x 16 mm	100	NSYS16M6HS	100	NSYNM6		
	T30 M6 x 12 mm self-tapping	100	NSYST30M6S	-	-	-	-	-		
		-	-	-	-	-	-	-		
	T40 M8 x 16 mm	100	NSYST40M8	-	-	-	-	-		
	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-		

	Flat nuts for standard uprights		Clip nut for symmetric DIN rail		Quarter turn nut for double profile DIN rail			Quarter turn nut for asymmetric DIN rail	
									
	2 x standard mounting uprights for floor-standing enclosures		35 x 15 mm symmetric DIN rail		35 mm double profile DIN rail			35 mm asymmetric DIN rail	
									
	Supply	References	Supply	References	Models	Supply	References	Supply	References
	-	-	100	AF1CG4	-	-	-	100	DZ5ME5
	-	-	100	AF1CG5	-	-	-	100	DZ5ME8
	50	NSYFNM6	100	AF1CG6	-	-	-	100	DZ5ME9
	50	NSYFNM8	-	-	-	-	-	-	-
	-	-	-	-	M3 + M4	100	AF1CF34	-	-
	-	-	-	-	M5 + M6	100	AF1CF56	-	-

10

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Multiple cable entries overview

• For details, type the reference in the search engine of www.se.com.

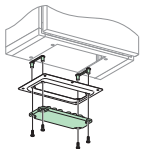
Characteristics	FlexiCable	Multi-A	Multi-C	Multi-R	Multi-CS	Multi-T
						
	Full membrane cable gland plate.	FL13 and FL21 type membranes.	Circular connector-free entries.	Rectangular connector-free entries.	Modular entry allowing the passing of up to 48 pre-assembled cables.	FL21-type membranes.
Material	HCE for membrane. Steel for frame	TPE, SBS, SEBS and PP co-polymer - Halogen free	Polyamide	Polyamide	Reinforced polypropylene and TPE. Halogen free	TPE
Colour	Frame: RAL 7035 grey	RAL 7035 grey	-	-	Black	RAL 7035 grey
Cable entry material	Soft membrane	Combined	Soft membrane			
Cable glands to be fitted	No	Optional: Specific cable clamp ref. **NSYAECPFLACA●●** to be used	No	No	No	No
Installation possibilities	Replaces cable gland plate (S3D) or directly on enclosure	On cable gland plate adapter or directly on enclosure	On modified cable gland plate or directly on enclosure	On cable gland plate with special cut-out or directly on enclosure	On cable gland plate adapter or directly on enclosure	
Flexibility of the installation	Full	Medium	Medium	Medium	Full	Medium
Reversibility	Medium	Medium	Full	Full	Full	Medium
Ingress protection rating	IP55 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP66 according to IEC 60529*
Cable retention	Low	High with cable clamp, (up to 18 daN)	Medium	Medium	Medium	Low
Cable diameter (mm)	Up to 26	From 13 to 30	From 3 to 15.9	From 4.3 to 15.9	Up to 22	From 5 to 60
Cable Installation time	Fast	Medium	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+++	++	++	++	+++	++
Cable entries for cables with connectors	No	No	No	No	Yes	No
Cut-out dimensions (mm)	178 x 63 to 478 x 63	134 x 52 (FL13) 214 x 90 (FL21)	Ø 50.5 Ø 63.5	112 x 36	112 x 36	214 x 90 (FL21)
External dimensions (mm)	245 x 130 to 545 x 130 or 495 x 220	216 x 84	Ø 58 Ø 71	146 x 14 x 58	148 x 58 x 15 148 x 58 x 18	214 x 88
Certificates	Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1	Cable anchorage pull test: EN 50262. Long term UV- resistance: ASTM G 154-06	UL 94 V-0	UL 94 V-0	• UL 94 V-0 • Fire resistance: V0	UL 94 V-0
Fire resistance	650°C	750°C	650°C	650°C	-	650°C
Temperature range	-	-40°C to +85°C	-	-	-30°C to +100°C	-40°C to +100°C
References	See **page 270** **NSYTL●●●**	See **page 270** **NSYAECPFLA●●**	See **page 270** **NSYTSAM●●●●●**	See **page 271** **NSYTSA24●●●●**	See **page 272** **NSYDCD24●●**	See **page 271** **NSYAECPFL●●●**

* IP65 for **NSYAECPFLBP**.

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Multiple cable entries overview

• For further information please have a look on the next page

Characteristics	Prisma	Multi-F	Multi-CF	Multi-CR	Multi-H
			New 		
	FL21 or rectangular.	FL13 and FL21 pre-configured flanges.	Cable entry for protected cables.	Cable entries with dies for cables equipped with connectors.	FL21 insulated flange with ISO knockouts.
Material	Insulating material	Fibreglass-reinforced polypropylene and TPE - Calogen Free	Reinforced polypropylene and TPE. Halogen free	Polyamide	Polycarbonate glass-fiber reinforced
Colour	RAL 9001	RAL 7035 grey	Black	-	RAL 7035 grey
Cable entry material	Soft membrane			Hard plastic	
Cable glands to be fitted	No	No	No	Yes	Yes
Installation possibilities	On cable gland plate adapter or directly on enclosure				
Flexibility of the installation	Medium	Medium	Full	Low	Low
Reversibility	Medium	Medium	Full	Medium	Medium
Ingress protection rating	IP55 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP54 according to IEC 60529	IP65 according to IEC 60529
Cable retention	Low	Low	Medium	High (with fastener)	High (with cable clamp)
Cable diameter (m	From 28 to 60 (FL21) From 7 to 72 (rectangular)	From 16 to 50	From 9 to 30	From 3 to 31	From 12 to 25
Cable Installation time	Fast	Fast	Fast	Slow	Slow
Quantity of cables to be fitted for a given surface	++	++	+++	++	++
Cable entries for cables with connectors	No	No	Yes	Yes	No
Cut-out dimensions (mm)	214 x 90 (FL21)	134 x 52 (FL13) 214 x 90 (FL21)	112 x 36	36 x 91 (NSYDCE168) 36 x 112 (NSYDCE24•)	214 x 90 (FL21)
External dimensions (mm)	216 x 84	From 134 x 52 to 214 x 90	148 x 60 x 10	146 x 58	215 x 85
Certificates	-	• UL 94-HB • Test standard EN 60529:1991 + A1 EN 60670-1:2005, EN 50262:1998 EMKO-TUI (03-SEC) FI001/84. Semko report 816003 • UL-approved materials	• UL 94-HB • Fire resistance: V0	-	UL 94 V-1
Flame resistance	-	-	-	650 °C	750 °C
Temperature range	-	-20°C to +125°C "Pop-out" membranes only.	-30°C to +70°C	-40°C to +80°C	• For normal operation: -40°C to +80°C • For a short time: -40°C to +120°C
References	See **page 274** **088●●**	See **page 271** **NSYAECPKFL●●**	See **page 273** **NSYTLK24●●**	See **page 272** **NSYDCE●●●●**	See **page 271** **NSYTSAKFL**

10

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Simple cable entries overview

• For details, type the reference in the search engine of www.se.com.

Characteristics	Simple-1	Simple-2	Simple-3	Simple-4	Simple-5
					
	Mixed membrane entries for enclosure thickness 20/10e - 32/10e mm.	PVC adjustable coneshaped entries for enclosure thickness 30/10e - 32/10e mm.	Quick cable entries for enclosure thickness 10/10e - 40/10e mm (5/10e - 20/10e mm for ref. IMT36179).	PVC adjustable coneshaped entries for PG tubes or for enclosure thickness 12/10e - 15/10e mm.	ISO cable gland.
Material	SBS	PVC	EPDM plastic	PVC	PA6 Polyamide, neoprene gasket
Colour	RAL 7035 grey or RAL 9010 white	-	Grey cable entries: NCS 5500 Black cable entries: NCS 9000	Black	RAL 7035 grey
Cable entry material	Soft membrane		Combined		
Cable glands to be fitted	Not applicable				
Installation possibilities	On cable gland plate or directly on enclosure				
Flexibility of the installation	Low				
Reversibility	Medium				
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP67 according to IEC 60529	IP55 according to IEC 60529	IP68 according to IEC 60529
Cable retention	Low	Low	Medium	Low	High
Cable diameter (mm)	From 20 to 40	From 5 to 87	From 12 to 50	From Ø 13 to Ø 44	From 12 to 40
Cable Installation time	Fast	Fast	Fast	Fast	Slow
Quantity of cables to be fitted for a given surface	+	+	+	+	+
Cable entries for cables with connectors	No	No	No	No	No
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter				
External dimensions (mm)	From Ø 23 to 44	From Ø 25 to 98	From Ø 12.5 to 50.7	52	From Ø 15 to 46
Certificates	-	-	-	-	Glow wire resistance: 960°C
Standard	-	-	-	-	Compliance with VDE, UL and CSA
Flame resistance	750°C	-	750°C	-	750 °C
References	See **page 275** **IMT36●●●/I SM71●●●**	See **page 275** **NSYECPC●●**	See **page 276** **IMT361●●**	See **page 276** **NSYEC●**	See **page 276** **ISM71●●●**

Characteristics	Synthetic snap in cable gland	Stainless steel cable gland with lamellar insert
	 New	 New
	Without thread. Easy assembly and disassembly. Suitable for walls from 0.5 to 4 mm thick.	Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For outdoor use, or for aggressive environments.
Material	PA6 Polyamide, neoprene gasket	Stainless steel AISI 304L or AISI 316L, neoprene gasket
Colour	RAL 7035 grey, RAL 7001, RAL 9005. Other colours on demand	-
Cable entry material	Non armoured	Non armoured
Installation possibilities	On cable gland plate or directly on enclosure	
Flexibility of the installation	Low	
Reversibility	Medium	
Ingress protection rating	IP68	IP68
Cable retention	High	High
Cable diameter (mm)	From 16 to 40	From 12 to 40
Cable Installation time	Slow	Slow
Quantity of cables to be fitted for a given surface	+	+
Cable entries for cables with connectors	No	No
Thread type	Metric EN 60423, other types are available on demand	Metric EN 60423
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter	
External dimensions (mm)	From Ø 22 to 46	From Ø 14 to 43
Certificates	UL 94 V-2	UL 94 V-2
Standard	DIN EN 62444, UL 514B, UL 514B§8.26.7	DIN EN 62444, UL 514
Temperature range	-20°C to + 100°C	-20°C to + 100°C
References	See **page 277, NSYCGSP●●**	See **page 277 NSYCGX●●●**

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Simple cable entries overview

Characteristics	Multi-cable disc		Cable gland gasket	Blanking plug	Transport plug
					
	It is possible to pass several cables through a single cable gland using the multi-cable bushing.			It is screwed into the cable gland's plate.	It is installed to block the cable gland during transport or during maintenance operations.
Material	EDPM rubber		EDPM rubber	PA6	PA6
Colour	Black		Black	RAL 7035 grey	Black
Ingress protection rating	-		IP68	-	-
Standards	-		-	-	-
Other characteristics	-		-	-	-
Supply	Batch of 40 (M16 and M20), 20 (M25 and M32)		Batch of 100 (M12 to M20), 50 (M25 and M32), 25 (M40)	Pack of 40 plugs (M12 to M20), 20 plugs (M25 and M32), 10 plugs (M40)	Pack of 40 plugs (M16 to M20), pack of 20 (M25 and M32), pack of 10 (M40)
Ø	Number / Ø (mm)	References	References	References	References
M12	-	**-**	**IMT36151**	**IMT36161**	**-**
M16	2 x Ø 4	**IMT36157**	**IMT36152**	**IMT36162**	**IMT36167**
M20	3 x Ø 4	**IMT36158**	**IMT36153**	**IMT36163**	**IMT36168**
M25	4 x Ø 5	**IMT36159**	**IMT36154**	**IMT36164**	**IMT36169**
M32	6 x Ø 5	**IMT36160**	**IMT36155**	**IMT36165**	**IMT36170**
M40	-	**-**	**IMT36156**	**IMT36166**	**IMT36171**

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Key features when selecting a cable entry (1/4)

1



Multiple



Single

Multiple cable entries or single cable entries?

- This choice depends on the number of cables going through the cable entry: Generally for 3 or more cables, choose a multiple cable entry. This will make your installation faster and more economical.
- In other words, your final bill will not necessarily be lower if you use single cable entries!
- Flexibility of installation: For high flexibility, multiple cable entry is the right choice.

2

Cable entry material

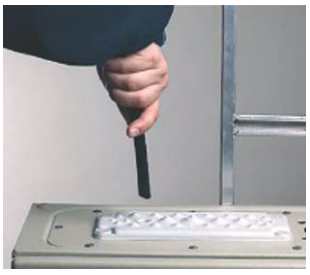
- **Soft membranes** allow cables to be easily pushed through, but still offer a good IP rating and protection from moisture and physical intrusions. Cable retention force, however, is lower than with other alternatives.



Push the membrane into a standard hole.



Make a small hole in the membrane.



Push the cable or tube through the guide hole.



Pull the cable or tube back some 20 mm to lock it.

- **Hard plastic cable entry plates** require tools to create the opening (drill or knife) but, thanks to the cable gland, they offer a very high retention force. Another use of this solution is for public places, since the hard surface helps prevent objects being pushed in.



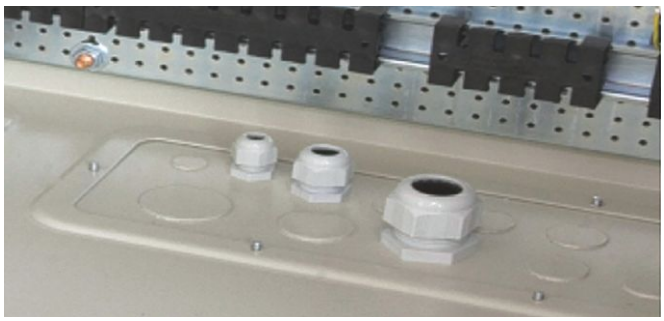
- **Combined: The material of the cable entry plate is hard plastic,** but the cable is pushed through a soft membrane. In this case you have the advantages of both soft membranes (easy and fast installation, flexibility) and hard plastic membranes (high retention force, when using specific cable clamps).







3



Cable glands to be fitted

- Some multiple cable entries require a cable gland to be able to retain the cables and ensure the degree of protection

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Key features when selecting a cable entry (2/4)

4



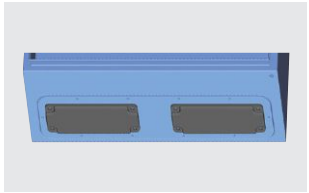
Installation possibilities

There are 4 ways to install your cable entries on the enclosure:

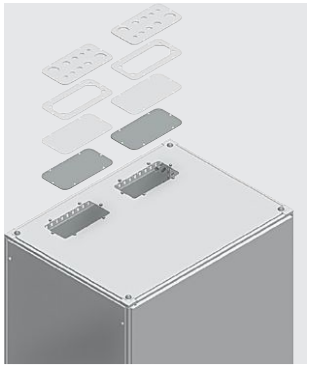
- **Using a cable entry:**
  the standard cable gland plate of your S3D wall-mounting enclosure is unscrewed and replaced by the cable entry. A gasket between enclosure and cable entry will help ensure good water and dust tightness.



- **Modifying the standard cable gland plate:**
  the standard cable gland plate is unscrewed and machined. A cut-out is created in it.



- **On cable gland plate adapter:**
  this plate, which has the outer dimensions of a standard cable gland plate, has one or more pre-cut cut-outs of standard dimensions (FL13 and FL21).
  On steel wall-mounting enclosures, the plate can replace the standard cable gland plate once the cable entry is fitted into it. On polyester enclosures, a cut-out must be created. Schneider Electric provides this service: a precise laser cut-out can be factory-created upon request.
  On steel floor-standing enclosures, you may either use the specific cable gland roof or create a cut-out **(see expert's tip 1 - page 269)**.



Cable gland plate adapters				
Enclosure range	1 membrane	2 membranes	3 membranes	4 membranes
Spacial S3D	 NSYTL●FL	 NSYTL●2FL	-	 NSYTLG4FL
Spacial SF	 NSYSFLR●● NSYSFLR●●●	 NSYSFLR●● NSYSFLR●●●	 NSYSFLR●●●	-

- Drilling directly the enclosure: A cut-out is created on the enclosure's side according to the cable entry's dimensions **(see expert's tip 1 - page 269)**.



Spotlight On…
FL13 and FL21 are standard cut-out dimensions frequently used in northern European countries and also used by our enclosures for several years now.

10

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Key features when selecting a cable entry (3/4)



Full flexibility



Medium flexibility

5 Flexibility of the installation

- **Full flexibility:**
  this means that cables can be added/removed easily, changing:
  - quantity
  - diameter
  - position

  (see expert's tip 2, page 269)
- **Medium flexibility:**
  - the amount, diameter or position of cables can be changed to a limited extent.
- **Low flexibility:**
  - it is not possible to change the above parameters.

6 Reversibility

- **Full reversibility:** This means that cables can be added/ removed easily without losing their initial characteristics, such as water tightness.
- **Medium reversibility:** For soft membranes, once the cable has been removed, there may be a loss of IP depending on the size of the cable and the cut. For hard plastic entries or combined material entries, initial characteristics are regained by adding plugs.
- **Low reversibility:** The cable entry must be completely replaced in order to regain the initial characteristics.

7 Degree of protection (IP)

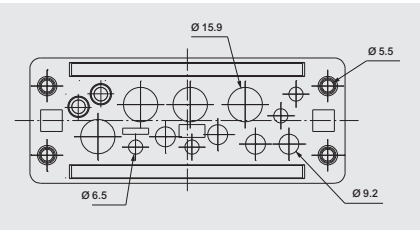
- If an enclosure is to be used in a clean, dry and well insulated environment, lower levels of IP may be acceptable (IP54 or IP55).
- In a dusty environment you may require higher IP levels, such as IP65 or IP68 **(see expert's tip 4, page 269)**.

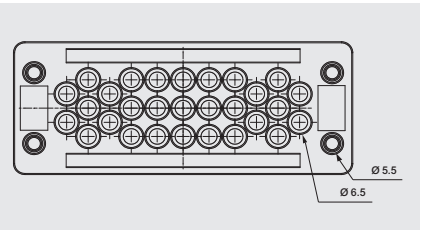
8 Cable retention

- Choose the right level of cable retention according to your needs.
  For locations accessible to the public, preferably choose a high level of cable retention.

9 Cable diameter

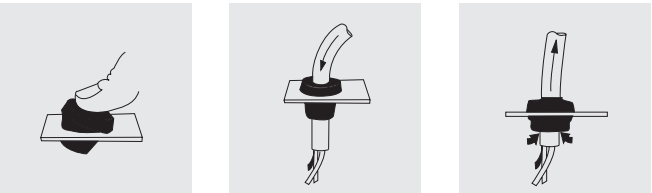
- Choose the cable entry seal according to the cable diameter.
  Take into account cable diameter tolerances.





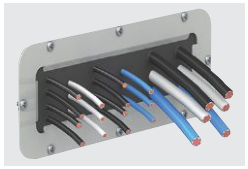
10 Cable installation time

- Each cable entry has different installation characteristics. Some can be installed easily and quickly thanks to the soft membrane. Take this into account depending on labour costs in your region.



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Key features when selecting a cable entry (4/4)





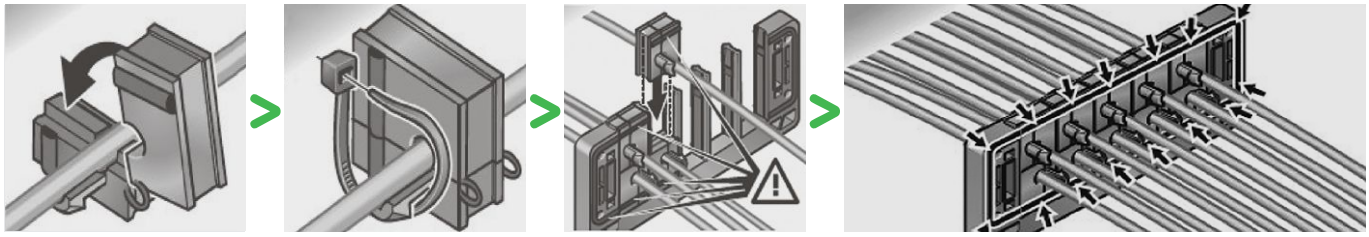
11 Quantity of cables to be fitted for a given surface

- For some installations, a large quantity of cables must go through the cable entry. Some cable entries can receive a high density of cables, which can result in more economical installation (fewer cable entries to be bought). For small enclosures, it may simply be impossible to install too many cable entries due to the available space on the enclosure's wall **(see expert's tip 3, page 269)**.



12 Cable entries for cables with connectors

- Some cables have large connectors which cannot be pushed through tight cable clamps or cable seals. These cable entries have the unique advantage of not requiring the cable to be cut, thanks to the snap-fitting system.



A high cable retention force is provided thanks to the integrated cable fastener

Expert's tip

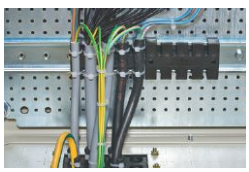
Specific Configured



1 Some cable entries require cut-outs to be machined on the enclosure or cable gland plate. Our customized offer provides this service. The quality of your enclosure will therefore be improved since the painting operation is performed after creating the cut-outs.



2 Installing a cable entry with full flexibility is the solution when a large series of enclosures is being prepared for different types of installations. By using one combination of enclosure-cable entry, you can cover a large variety of installations!



3 When the cable entry has been defined, the next step is cable management inside the enclosure. For correct thermal management, all wires must be fitted and attached so as not to create an obstacle for correct air flow. Consult our Universal Enclosures catalogue for cable management accessories (such as cable ducts) and consumables (such as cable ties).



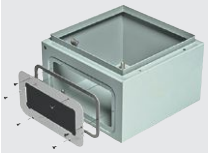
4 When your environment requires a high level of IP for your installation, make sure you have an appropriate thermal management system to avoid condensation or overheating problems. Consult our Thermal Management offer in our Universal Enclosures catalogue and our Control Panel Technical Guide related to this issue.

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Cable entries

FlexiCable cable entries

Mount FlexiCable on your S3D enclosure.



Create a hole with a screw driver.



Push the cable through FlexiCable and finish-off your installation.



Note:
Details see page 262

Supply:
1 metallic frame with pre-mounted membrane, 1 gasket, fixing hardware


NSYTLGME

Characteristics	Type	Plate width (mm)	Plate depth (mm)	Effective cable entrance dimensions (mm)	References
FlexiCable cable entries	C	245	130	178 x 63	**NSYTLCME**
FlexiCable cable entries	D	345	130	278 x 63	**NSYTLDME**
FlexiCable cable entries	E	445	130	378 x 63	**NSYTLEME**
FlexiCable cable entries	F	545	130	478 x 63	**NSYTLFME**
FlexiCable cable entries	G	495	220	428 x 153	**NSYTLGME**
FlexiCable cable entries for enclosure with 2 cable gland plates	D	345	130	-	2x **NSYTLDME**
FlexiCable cable entries for enclosure with 2 cable gland plates	E	445	130	-	2x **NSYTLEME**

Multi-A


NSYAECPFLA7


NSYAECPFLA10


NSYAECPFLA25


NSYAECPFLA33

FL13



FL21



Note:
Details see page 262

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Diameter of the cable entry (Ø mm) No.	13	14	15	16	18	21	30	References
Multi-A Type FL13	20	135	47	7	-	-	4	-	-	3	-	**NSYAECPFLA7**
Multi-A Type FL13	20	135	47	10	6	-	-	4	-	-	-	**NSYAECPFLA10**
Multi-A Type FL21	25	215	86	25	-	16	-	-	6	-	3	**NSYAECPFLA25**
Multi-A Type FL21	25	215	86	33	-	24	-	-	9	-	-	**NSYAECPFLA33**

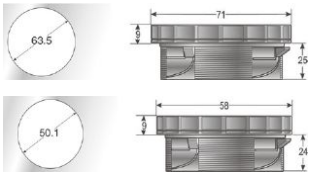
Multi-C


NSYTSAM508SE

Position of the holes on the circular cable entries with diameters 50 and 63 mm:



NSYTSAM504SE NSYTSAM508SE NSYTSAM638SE NSYTSAM6313SE



Note:
Details see page 262

Supply:
10 units.
Reference by unit.
Order by multiples of 10 (10, 20, 30...)

Characteristics	Cut-out Ø (mm)	Diameter of the cable entry (Ø mm) No.	3-5.5	3-6.5	3.6-6.5	5-9.2	6-10	9.6-15.9	References
Multi-C	50.5	4	-	-	-	-	3	1	**NSYTSAM504SE**
Multi-C	50.5	8	-	-	7	-	1	-	**NSYTSAM508SE**
Multi-C	63.5	8	-	2	-	4	-	2	**NSYTSAM638SE**
Multi-C	63.5	13	6	-	6	-	1	-	**NSYTSAM6313SE**

10

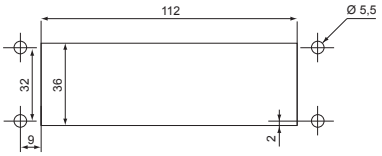
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Life Is On Schneider Electric

Cable entries

Multi-R

- Material: Polyamide
- Cable entry material: Soft membrane
- Cable glands to be fitted: No
- Installation possibilities: On cable gland plate with special cut-out or directly on enclosure
- Flexibility of the installation: Medium
- Reversibility: Full
- Ingress protection rating: IP55 according to IEC 60529
- Cable retention: Medium
- Cable diameter (mm): From 4.3 to 15.9
- Cable Installation time: Fast
- Quantity of cables to be fitted for a given surface: ++
- Cable entries for cables with connectors: No
- Cut-out dimensions (mm): 112 x 36
- External dimensions (mm): 146 x 14 x 58
- Certificates: UL 94 V-0
- Flame resistance: 650°C



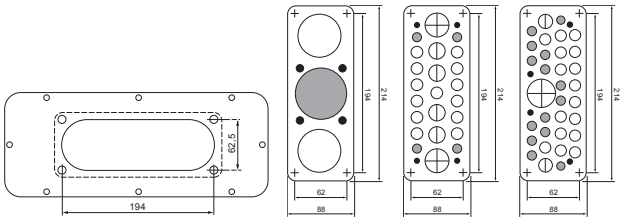
Note:
Dimensions and positions of the holes on a rectangular cable entry see page 307
Details see page 262

Supply:
1 unit


NSYTSA2414SE

Characteristics	Cut-out Ø (mm)	Diameter of the cable entry (Ø mm) No.	4.3-8.1	3-6.5	5-9.2	8-12.5	9.6-15.9	References
Multi-R	112 x 36	14	-	6	4	-	-	**NSYTSA2414SE**
Multi-R	112 x 36	17	-	-	17	-	-	**NSYTSA2417SE**
Multi-R	112 x 36	22	-	16	4	2	-	**NSYTSA2422SE**
Multi-R	112 x 36	23	23	-	-	-	-	**NSYTSA2423SE**
Multi-R	112 x 36	29	-	29	-	-	-	**NSYTSA2429SE**

Multi-T



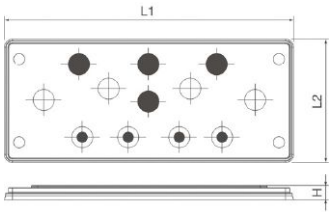
- Type FL21

Note:
Details see page 262


NSYAECPFLT25

Characteristics	Diameter of the cable entry (Ø mm) No.	5-7	6-10	8-12	8-16	10-14	12-18	14-20	17-32	20-26	24-54	30-60	References
Multi-T, metallic plate	0	-	-	-	-	-	-	-	-	-	-	-	**NSYAECPFLBP**
Multi-T	7	-	-	-	4	-	-	-	-	-	2	1	**NSYAECPFLT7**
Multi-T	27	4	-	4	-	13	-	4	-	2	-	-	**NSYAECPFLT25**
Multi-T	37	-	4	14	-	16	2	-	1	-	-	-	**NSYAECPFLT35**

Multi-H



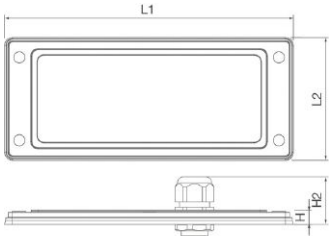
- Type FL21

Note:
Details see page 263


NSYTSAKFL

Characteristics	L1 (mm)	L2 (mm)	H (mm)	Diameter of the cable entry (Ø mm) M12	M12 or M20	M16 or M25	References
Multi-H	10	215	85	4	4	4	**NSYTSAKFL**

Multi-F



- Type FL13 or FL21
- Diameter of the cable entry 4-10 mm: "Pop-out" membranes only
- Diameter of the cable entry M16, M20 or M25: "Pop-out" membranes or cable gland installation
- Diameter of the cable entry M32, M40 or M50: Knock out system

Note:
Details see page 263


NSYAECPKFL11

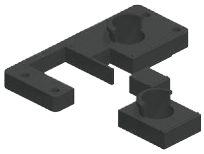
Characteristics	Dimesions (mm) L1	L2	H	H2	Diameter of the cable entry (Ø mm) 4-10	M16 (5-10)	M20 (6-13)	M25 (8-17)	M32, M40 or M50	References
MMulti-F FL13	134	52	6.5	~ 35	10	-	1	-	-	**NSYAECPKFL11**
Multi-F	214	90	9	~ 35	-	2	2	2	1	**NSYAECPKFL7A**
Multi-F	214	90	9	~ 35	-	4	2	4	-	**NSYAECPKFL10**

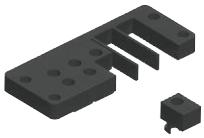
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Cable entries

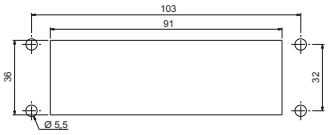
Multi-CR


NSYDCE168

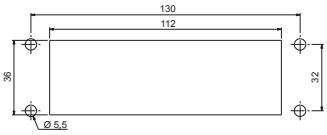

NSYDCE244


NSYDCE2410

NSYDCE16●●●



NSYDCE24●●●



Note:
Details see page 263

Supply:
1 die and fixing elements

Characteristics	Connector cut-out type	Number of cable entries	References
Multi-CR	16	8	**NSYDCE168**
Multi-CR	24	4	**NSYDCE244**
Multi-CR	24	10	**NSYDCE2410**

Split seals for cable entries equipped with connectors

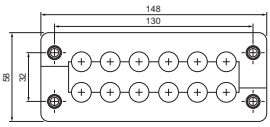
Supply:
10 units. Reference per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).

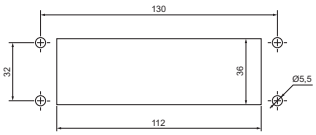
- Split seals suited to the diameter of the cable to be mounted on the cable entry dies for the connectors. Ref. **NSYDCE●●●**


NSYCEJD

Characteristics	For cables Ø (mm)	References
Split seals for cable entries equipped with connectors	0	**NSYCEJD**
Split seals for cable entries equipped with connectors	3-4	**NSYCEJD3**
Split seals for cable entries equipped with connectors	5-6	**NSYCEJD5**
Split seals for cable entries equipped with connectors	7-8	**NSYCEJD7**
Split seals for cable entries equipped with connectors	9-10	**NSYCEJD9**
Split seals for cable entries equipped with connectors	11-12	**NSYCEJD11**
Split seals for cable entries equipped with connectors	13-14	**NSYCEJD13**
Split seals for cable entries equipped with connectors, large seal, 24/4 die only	16-17	**NSYCEJD16**
Split seals for cable entries equipped with connectors, large seal, 24/4 die only	18-19	**NSYCEJD18**
Split seals for cable entries equipped with connectors, large seal, 24/4 die only	20-21	**NSYCEJD20**
Split seals for cable entries equipped with connectors, large seal, 24/4 die only	22-23	**NSYCEJD22**
Split seals for cable entries equipped with connectors, large seal, 24/4 die only	24-25	**NSYCEJD24**
Split seals for cable entries equipped with connectors, large seal, 24/4 die only	26-27	**NSYCEJD26**
Split seals for cable entries equipped with connectors, large seal, 24/4 die only	28-29	**NSYCEJD28**
Split seals for cable entries equipped with connectors, large seal, 24/4 die only	30-31	**NSYCEJD30**

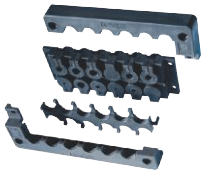
Multi-CS





Note:
Details see page 262

Supply:
1 unit


NSYDCD2412

Characteristics	Cut-out (mm)	Diameter of the cable entry (Ø mm) No.	2-12	12-24	References	
Multi-CS	112 x 36	12	12	-	**NSYDCD2412**	New
Multi-CS	112 x 36	4	-	4	**NSYDCD244**	New
Multi-CS	112 x 36	8	6	2	**NSYDCD248**	New
Multi-CS	112 x 36	9	8	1	**NSYDCD249**	New

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Life Is On Schneider Electric

Cable entries

Cable gland

Supply:
Small cable gland: Pack of 12
Large cable gland: Pack of 4


NSYCEJDS2

Characteristics	Cable Ø (mm)	References
Cable gland, small	2-3	**NSYCEJDS2**
Cable gland, small	3-4	**NSYCEJDS3**
Cable gland, small	4-5	**NSYCEJDS4**
Cable gland, small	5-6	**NSYCEJDS5**
Cable gland, small	6-7	**NSYCEJDS6**
Cable gland, small	7-8	**NSYCEJDS7**
Cable gland, small	8-9	**NSYCEJDS8**
Cable gland, small	9-10	**NSYCEJDS9**
Cable gland, small	10-11	**NSYCEJDS10**
Cable gland, small	11-12	**NSYCEJDS11**
Cable gland, large	12-13	**NSYCEJDL12**
Cable gland, large	13-14	**NSYCEJDL13**
Cable gland, large	14-15	**NSYCEJDL14**
Cable gland, large	15-16	**NSYCEJDL15**
Cable gland, large	16-17	**NSYCEJDL16**
Cable gland, large	17-18	**NSYCEJDL17**
Cable gland, large	18-19	**NSYCEJDL18**
Cable gland, large	19-20	**NSYCEJDL19**
Cable gland, large	20-21	**NSYCEJDL20**
Cable gland, large	21-22	**NSYCEJDL21**

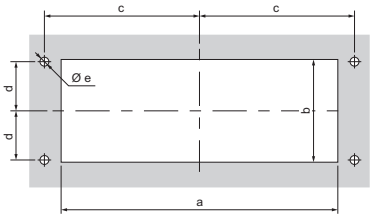
Blanking plugs

Supply:
Small blanking plugs: Pack of 12
Large blanking plugs: Pack of 4


NSYCEJDS0

Characteristics	References
Blanking plugs, small	**NSYCEJDS0**
Blanking plugs, large	**NSYCEJDL0**

Multi-CF



Note:
Details see page 263

Supply:
1 unit


NSYTLK2414


NSYTLK2422

Characteristics	Diameter of the cable entry (Ø mm)							References
	No.	No. x Ø max.	a	b	c	d	e	
Multi-CF	14	6 x 9 4 x 11 4 x 18	112	36	65	16	5.5	**NSYTLK2414** New
Multi-CF	22	16 x 9 4 x 11 2 x 15	112	36	65	16	5.5	**NSYTLK2422** New
Multi-CF	28	28 x 9	112	36	65	16	5.5	**NSYTLK2428** New
Multi-CF	46	46 x 9	112	36	65	16	5.5	**NSYTLK2446** New
Multi-CF	multi	3 / 27 x 300	112	36	65	16	5.5	**NSYTLK24M** New

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Cable entries

Prisma, plain

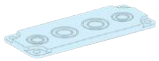

08881

- Solid cable gland plates

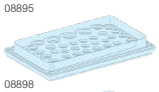
Note:
Details see page 263

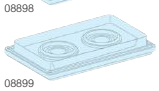
Characteristics	Type	References
Prisma, plain	FL21	**08881**

Prisma, pre-drilled


08892


08895


08898

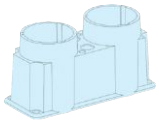

08899

- Suitable for receiving cable glands with metric pitch

Note:
Reference 08898 is made up of:
3 cables with diameters from 14 to 26.
4 cables with diameters from 10 to 20.
32 cables with diameters from 7 to 16.
Details see page 263

Characteristics	Type	References
Prisma, pre-drilled, with 4 entries 2 x M20 or M32 + 2 x M25 or M40	FL21	**08892**
Prisma, pre-drilledn, with 13 entries 5 x M16 or M25 + 8 x M20	FL21	**08895**
Prisma, pre-drilled, with 39 entries Ø 7 - 26 mm	opening 225 x 137 mm	**08898**
Prisma, pre-drilled, with 2 entries Ø 33 - 72 mm	opening 225 x 137 mm	**08899**

Prisma, membrane


08897

- Membrane to be drilled according to the required diameter

Note:
Details see page 263

Characteristics	Type	References
Prisma, membrane, 2 entries, 2 x Ø 28 - 60 mm	FL21	**08897**

Cable clamp for improved cable retention for Multi-A

- Installation on FL 21 membrane type "A" for cable entrance to block cables when installed. It can be easily removed.
- Material: PA6
- Temperature range: -40 to +85 °C

Installation:
1. Push the cable through the membrane entrance to the desired position
2. Put the cable clamp around the cable and slide it into the cable entry
3. Push the cable clamp fully into the membrane entrance and the cable will be fixed

Note:
Secure your installation with an easy solution for cable anchorage.


NSYAECPFLACA30

Characteristics	Cable clamp outer Ø (mm)	Membrane entrance Ø (mm)	Cable Ø range (mm)	References
Set of 8 cable clamps for improved cable retention for Multi-A	15	14	7-9	**NSYAECPFLACA14**
Set of 6 cable clamps for improved cable retention for Multi-A	18	18	9-11	**NSYAECPFLACA18**
Set of 6 cable clamps for improved cable retention for Multi-A	20	18	10-12	**NSYAECPFLACA20**
Set of 3 cable clamps for improved cable retention for Multi-A	30	30	20-23	**NSYAECPFLACA30**

Blanking plugs for Multi-A

- Installation on FL 21 membrane type "A" for cable entrance to fill the opening used.
- Material: LDPE
- Temperature range: -30 to +50°C

Supply:
Set of 2 x 30 mm, 3 x 18 mm and 5 x14 mm


NSYAECPFLAP

Characteristics	References
Blanking plugs for Multi-A	**NSYAECPFLAP**

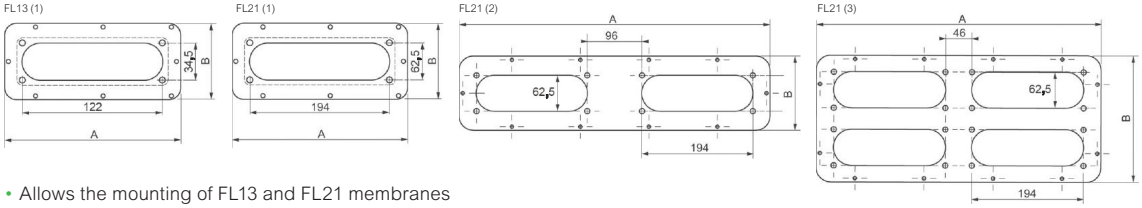
10

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Life Is On Schneider Electric

Cable entries

Steel adapter plate for FL13 and FL21 membranes



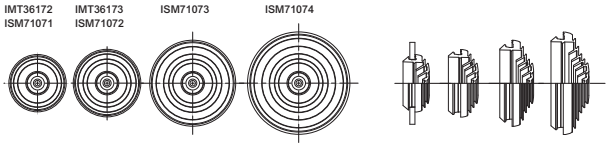
- Allows the mounting of FL13 and FL21 membranes on every type of enclosure.
- Our membrane can be easily adapted to fit onto all our metallic enclosures using the adapter plate.
- Ingress protection rating IP55 according to IEC 60529

Supply:
Delivered with fixing screws and gasket


NSYTLBFL

Characteristics	Type	Plate dimensions (mm)		Cut-out dimensions (mm)		References
		A	B	H	I	
Steel adapter plate for FL13 membranes (1)	B	245	80	212	47	**NSYTLBFL**
Steel adapter plate for FL21 membranes (1)	C	245	130	212	97	**NSYTLCFL**
Steel adapter plate for FL21 membranes (1)	D	345	130	312	97	**NSYTLDFL**
Steel adapter plate for FL21 membranes (1)	E	445	130	412	97	**NSYTLEFL**
Steel adapter plate for FL21 membranes (1)	F	545	130	512	97	**NSYTLFFL**
Steel adapter plate for FL21 membranes (2)	F	545	130	512	97	**NSYTLF2FL**
Steel adapter plate for FL21 membranes (1)	G	495	220	462	187	**NSYTLGFL**
Steel adapter plate for FL21 membranes (2)	G	495	220	462	187	**NSYTLG2FL**
Steel adapter plate for FL21 membranes (3)	G	495	220	462	187	**NSYTLG4FL**

Mixed membrane entries for IP55 direct cable entries



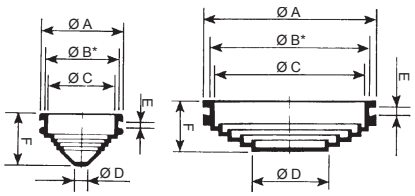
Note:
Details see page 264

Supply:
Minor packaging of 10 pieces


ISM71074

Characteristics	Drill hole Ø (mm)	Cable / conduit Ø (mm)	References
Mixed membrane entries for IP55 direct cable entries, RAL 9010	23	4 - 20	**IMT36172**
Mixed membrane entries for IP55 direct cable entries, RAL 9010	29	4 - 25	**IMT36173**
Mixed membrane entries for IP55 direct cable entries, RAL 7035	23	4 - 20	**ISM71071**
Mixed membrane entries for IP55 direct cable entries, RAL 7035	29	4 - 25	**ISM71072**
Mixed membrane entries for IP55 direct cable entries, RAL 7035	36	4 - 32	**ISM71073**
Mixed membrane entries for IP55 direct cable entries, RAL 7035	44	4 - 40	**ISM71074**

PVC adjustable cone-shaped entries



Note:
* Drill-hole for mounting.
Details see page 264

Supply:
NSYECPC3 50 cable entries,
NSYECPC5 and **NSYECPC6** each 25 cable entries,
NSYECPC9 and **NSYECPC15** each 10 cable entries

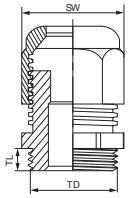

NSYECPC15

Characteristics	Dimensions (mm)						Capacity		References
	Ø A	Ø B*	Ø C	Ø D	E	F	Cable (Ø mm)	Tube	
PVC adjustable cone-shaped entries	25	21.5	18	5	3.2	13	5-18	PG 9-11	**NSYECPC3**
PVC adjustable cone-shaped entries	33	29.5	26	5	3.2	20	5-26	PG 9-16	**NSYECPC5**
PVC adjustable cone-shaped entries	43	38.5	36	5	3.2	22	5-36	PG 9-21	**NSYECPC6**
PVC adjustable cone-shaped entries	70	63	60	28	3	20	28-60	PG 21-48	**NSYECPC9**
PVC adjustable cone-shaped entries	98	90	87	28	3	23	28-87	PG 21-48	**NSYECPC15**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Cable entries

ISO cable gland



Note:
* In brackets: Tolerance.
Details see page 264

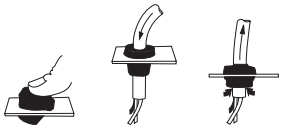
Supply:
The cable glands are supplied with nuts. Pack of 20 (M12 to M20), 10 (M25 and M32), 5 (M40)

- The cable gland (ref. **IMT36150**) is especially recommended for security circuits.


ISM71503

Characteristics	Dimensions						References
	ISO	Cable Ø (mm)	Drill hole* Ø (mm)	TD	TL		
Cable gland	M12	3 / 6.5	12.2 (0 + 0.2)	12	6	15	**ISM71501**
Cable gland	M16	4 / 8	16.2 (0 + 0.2)	16	8	19	**ISM71502**
Cable gland	M20	6 / 12	20.2 (0 + 0.2)	20	10	24	**ISM71503**
Cable gland with high resistance to fire	M20	6 / 12	20.2 (0 + 0.2)	20	10	24	**IMT36150**
Cable gland	M25	11 / 17	25.2 (0 + 0.2)	25	8	29	**ISM71504**
Cable gland	M32	15 / 21	32.2 (0 + 0.3)	32	10	36	**ISM71505**
Cable gland	M40	19 / 28	40.5 (0 + 0.3)	40	10	46	**ISM71506**

Quick cable entries



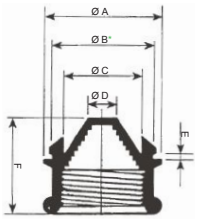
Note:
Details see page 264

Supply:
50 (M12 to M32), 25 (M40 and M50)


IMT36179

Characteristics	Dimensions			References
	Ø	Drill hole Ø (mm)	Cable Ø (mm)	
Quick cable entries	M12	12.5	3 - 5	**IMT36179**
Quick cable entries	M16	16	5 - 7	**IMT36180**
Quick cable entries	M20	20.3	7 - 10	**IMT36181**
Quick cable entries	M25	25.3	10 - 14	**IMT36182**
Quick cable entries	M32	32.4	14 - 20	**IMT36183**
Quick cable entries	M40	40.7	20 - 26	**IMT36184**
Quick cable entries	M50	50.7	26 - 35	**IMT36185**

PVC adjustable cone-shaped entries



Note:
Details see page 264

Supply:
25 cable entries


NSYEC7

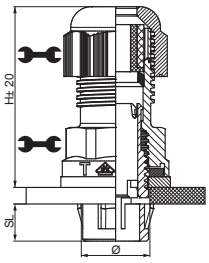
Characteristics	Dimensions (mm)						Capacity		References
	Ø A	Ø B	Ø C	Ø D	E	F	Cable Ø (mm)	Tube	
PVC adjustable cone-shaped entries	52	48.5	44	13	1.5	30	13 to 44	PG 36	**NSYEC7**

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Life Is On Schneider Electric

Cable entries

Synthetic snap in cable gland



Note:
Details see page 264

Supply:
The cable glands are supplied with nuts. Pack of 20 (M16 and M20), of 10 (M25 and M32), of 5 (M40)

- Wall thickness : E = 0.5 à 4 mm.


NSYCGSP16

Characteristics	Dimensions							References	
	Ø	Ø min / max	Drill Ø	SL	SD	H			
Synthetic snap in cable gland	M16	5/10	16.2 to 16.4	9	15.9	42.5	22	**NSYCGSP16**	New
Synthetic snap in cable gland	M20	6/12	20.2 to 20.4	9	19.9	41.5	24	**NSYCGSP20**	New
Synthetic snap in cable gland	M25	11/17	25.2 to 25.4	9	24.9	43.5	29	**NSYCGSP25**	New
Synthetic snap in cable gland	M32	15/21	32.2 to 32.4	9	31.9	49.5	36	**NSYCGSP32**	New
Synthetic snap in cable gland	M40	19/28	40.2 to 40.4	11.5	39.9	56	46	**NSYCGSP40**	New

Snap in cable gland disassembling tool

- Tool to quickly disassemble cable gland.
- Material: Plastic

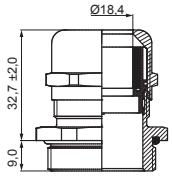
Note:
Details see page 264


NSYDT16


NSYDT20

Characteristics	Ø	References	
Snap in cable gland disassembling tool	M16	**NSYDT16**	New
Snap in cable gland disassembling tool	M20	**NSYDT20**	New
Snap in cable gland disassembling tool	M25	**NSYDT25**	New
Snap in cable gland disassembling tool	M32	**NSYDT32**	New
Snap in cable gland disassembling tool	M40	**NSYDT40**	New

Stainless steel cable gland with lamellar insert



Note:
Details see page 264

Supply:
The cable glands are supplied with nuts. Pack of 5 (M12 and M16), of 4 (M20 and M25), of 2 (M32 and M40)

- Applications: Outdoor, food and beuverage industries, pharmazeutical industry and other sensitive applications.


NSYCGX12

Characteristics	Dimensions							References	
	Ø	Ø min / max	Drill Ø	TD	TL	H			
AISI 304L	M12	3/6.5	12 to 12.2	12	12	22	14	**NSYCGX12**	New
AISI 304L	M16	5/10	16 to 16.2	16	12	28.5	20	**NSYCGX16**	New
AISI 304L	M20	6/12	20 to 20.2	20	12	24	22	**NSYCGX20**	New
AISI 304L	M25	11/17	25 to 25.2	25	12	32.5	27	**NSYCGX25**	New
AISI 304L	M32	15/21	32 to 32.3	32	15	36	34	**NSYCGX32**	New
AISI 304L	M40	19/28	40 to 40.3	40	15	43.5	43	**NSYCGX40**	New
AISI 316L	M12	3/6.5	12 to 12.2	12	12	22	14	**NSYCGX12H**	New
AISI 316L	M16	5/10	16 to 16.2	16	12	28.5	20	**NSYCGX16H**	New
AISI 316L	M20	6/12	20 to 20.2	20	12	24	22	**NSYCGX20H**	New
AISI 316L	M25	11/17	25 to 25.2	25	12	32.5	27	**NSYCGX25H**	New
AISI 316L	M32	15/21	32 to 32.3	32	15	36	34	**NSYCGX32H**	New
AISI 316L	M40	19/28	40 to 40.3	40	15	43.5	43	**NSYCGX40H**	New

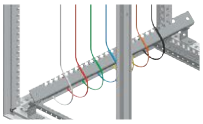
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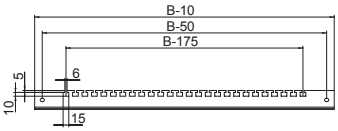
Cable holding

SM SMX SF SFX Lower cable-guide cross rail

- It allows quick fixing of cables entering and exiting the enclosure.
- Depth adjustable every 25 mm.
- Material: Galvanised steel

Fixing:
- Spacial SF: for suitable enclosures with widths of 1200 and 1600 mm, use the adaptationkit for 2-door suitable enclosures, see page 240
- Spacial SM: for floor-standing enclosures with a width of 1200 mm, a top/bottom mounting rail installed in central position is required
- Spacial SFX: no adaptation piece is required for the 1200 mm suitable enclosures
- Spacial SMX: no adaptation piece is required for the 1600 mm floor-standing enclosures





Supply:
1 cable-guide cross rail and fixingelements


NSYCFP60

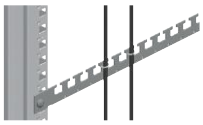
Characteristics	Width (mm)	References
Lower cable-guide cross rail	600	**NSYCFP60**
Lower cable-guide cross rail	800	**NSYCFP80**
Lower cable-guide cross rail	1000	**NSYCFP100**
Lower cable-guide cross rail	1200	2x **NSYCFP60**
Lower cable-guide cross rail	1600	2x **NSYCFP80**

SM SMX SF SFX Cable-guide cross rails for framework

Support types:
- Angle support at 90°: For vertical cable fixing.
- Angle support at 120°: For fixing cables near the cable entry.
- Material: Zinc-coated steel

Fixing:
- Spacial SF/SFX: support for direct mounting on the framework, cross rails or rails
- Spacial SM: fixing on the bottom mounting rail, or on the floor-standing enclosure by means of adaptation rails and 40 mm universal cross rails (1 row) in vertical position
- Spacial SMX: fixing on the bottom mounting rail and 40 mm universal cross rails (1 row) in vertical position





Supply:
2 supports and fixing elements


NSYCFS96

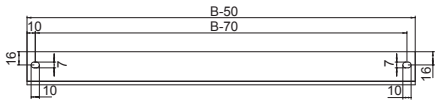
Characteristics	Support angle	Width (mm)	References
Cable-guide cross rails for framework	90°	600	**NSYCFS96**
Cable-guide cross rails for framework	120°	600	**NSYCFS126**
Cable-guide cross rails for framework	90°	800	**NSYCFS98**
Cable-guide cross rails for framework	120°	800	**NSYCFS128**

SM SMX SF SFX L-rail for fixing cables

- Rail for fixing cables entering from the bottom.
- Adjustable depth with a pitch of 25 mm.
- It is not possible to mount it on a plinth cross rail.
- Material: Zinc-coated steel

Fixing:
- Spacial SF/SFX: fixing to the bottom frame, above the cable entry, or else to the plinth, using the plinth cross rails, see page 86
- Spacial SM/SMX: fixingto the bottom adjustment rails, above the cable entry, or else to the plinth, using the plinth cross rails, see page 86
- The cables are fixed to the rail by means of metal clamps







Supply:
One rail, two mounting supports and fixing elements


NSYFCG60

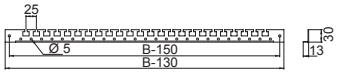
Characteristics	Width (mm)	References
L-rail for fixing cables	600	**NSYFCG60**
L-rail for fixing cables	800	**NSYFCG80**
L-rail for fixing cables	1000	**NSYFCG100**
L-rail for fixing cables	1200	**NSYFCG120**
L-rail for fixing cables	1600	**NSYFCG160**

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Cable holding

SM SMX SF SFX Door cable-guide cross rail





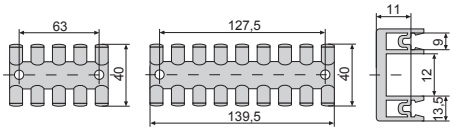
- Recommended for fixing cables in the internal equipment of the door.
- Height adjustable every 25 mm.
- Material: Zinc-coated steel
- Fixing: Direct fixing on the reinforcement frame

Supply:
2 cable-guide cross rails and fixing elements

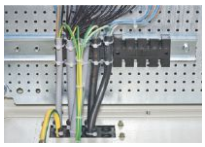

NSYSDGCR5

Characteristics	Width (mm)	References
Door cable-guide cross rail	600	**NSYSDGCR5**
Door cable-guide cross rail	600	**NSYSDGCR6**
Door cable-guide cross rail	800	**NSYSDGCR8**
Door cable-guide cross rail	1000	**NSYSDGCR10**

Plastic cable support



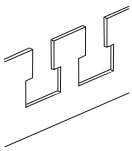
Supply:
10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)


NSYSCCDINLG75

- It clips or screws onto 35 mm symmetric rails or a C-shaped rail.
- Fixing: Quick and easy fixing of cables using cable ties

Characteristics	Max. no. of cables	Width (mm)	References
Plastic cable support	5	75	**NSYSCCDINLG75**
Plastic cable support	9	140	**NSYSCCDINLG140**

S3D S3X Door cable-guide cross rails for wall-mounting enclosures





- They are installed on wall-mounting enclosures with heights from 400 mm for Spacial S3D and 500 mm for Spacial S3X.
- They make it easy to equip the inside of the door.
- Installation cable ties, see **page 306**.
- Fixing: They are fixed to the door reinforcement frame by 2 self-tapping screws. The angle can be directed towards the body of the enclosure or towards the door

Supply:
2 cable-guide cross rails and fixing elements


NSYTFPCRN4

Characteristics	Width (mm)	References
Door cable-guide cross rails for wall-mounting enclosures	400	**NSYTFPCRN4**
Door cable-guide cross rails for wall-mounting enclosures	500	**NSYTFPCRN5**
Door cable-guide cross rails for wall-mounting enclosures	600	**NSYTFPCRN6**
Door cable-guide cross rails for wall-mounting enclosures	800	**NSYTFPCRN8**
Door cable-guide cross rails for wall-mounting enclosures	1000	**NSYTFPCRN10**

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Cable ties

Thorsman cable ties



Description
- Cable ties are used for a wide range of applications including bundle up and fix cables, conduits and tubing
- Material: PA6.6
- Available in black and clear colour
- Max operating temperature -40°C to +85°C
- Minimum installation temperature -20°C.

Application
- There are two types of Thorsman cable ties available:
  made of clear polyamide, for indoor use
  made of UV-stabilized black polyamide for both indoor and outdoor use

Benefits
- The cable ties are self-locking. They cannot be opened and re-sealed.
- The cable ties have smooth rounded edges for easier handling and safer installation.
- The bent rounded tip allows easier insertion through the head of the cable tie.
- User friendly re-sealable packaging and documented quality.
- Manufactured and tested to EN62275, RoHS compliant.



IMT46026

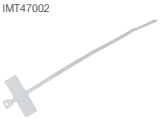
Characteristics	Type	Length (mm)	Colour	Qty per package	References
Thorsman cable ties	2.5 mm	100	Clear	100	**IMT46026**
Thorsman cable ties	2.5 mm	100	Black	100	**IMT46033**
Thorsman cable ties	2.5 mm	120	Clear	100	**IMT46035**
Thorsman cable ties	2.5 mm	120	Black	100	**IMT46036**
Thorsman cable ties	2.5 mm	160	Clear	100	**IMT46074**
Thorsman cable ties	2.5 mm	160	Black	100	**IMT46073**
Thorsman cable ties	2.5 mm	200	Clear	100	**IMT46158**
Thorsman cable ties	2.5 mm	200	Black	100	**IMT46157**
Thorsman cable ties	3.6 mm	150	Clear	100	**IMT46064**
Thorsman cable ties	3.6 mm	150	Black	100	**IMT46071**
Thorsman cable ties	3.6 mm	200	Clear	100	**IMT46149**
Thorsman cable ties	3.6 mm	200	Black	100	**IMT46156**
Thorsman cable ties	3.6 mm	300	Clear	100	**IMT46921**
Thorsman cable ties	3.6 mm	300	Black	100	**IMT46922**
Thorsman cable ties	4.8 mm	200	Clear	100	**IMT46101**
Thorsman cable ties	4.8 mm	200	Black	100	**IMT46118**
Thorsman cable ties	4.8 mm	250	Clear	100	**IMT46918**
Thorsman cable ties	4.8 mm	250	Black	100	**IMT46968**
Thorsman cable ties	4.8 mm	300	Clear	100	**IMT46919**
Thorsman cable ties	4.8 mm	300	Black	100	**IMT46969**
Thorsman cable ties	4.8 mm	370	Clear	100	**IMT46248**
Thorsman cable ties	4.8 mm	370	Black	100	**IMT46970**
Thorsman cable ties	7.6 mm	300	Black	100	**IMT46923**
Thorsman cable ties	7.6 mm	380	Clear	100	**IMT46286**
Thorsman cable ties	7.6 mm	380	Black	100	**IMT46293**
Thorsman cable ties	8.8 mm	550	Clear	100	**IMT46926**
Thorsman cable ties	8.8 mm	550	Black	100	**IMT46924**
Thorsman cable ties	8.8 mm	780	Black	100	**IMT46927**
Thorsman cable ties	2.5 mm	100	Black	20	**IMT46231**
Thorsman cable ties	2.5 mm	100	Clear	20	**IMT46221**
Thorsman cable ties	4.6 mm	200	Black	20	**IMT46232**
Thorsman cable ties	4.6 mm	200	Clear	20	**IMT46222**
Thorsman cable ties	4.8 mm	280	Black	20	**IMT46233**
Thorsman cable ties	4.8 mm	280	Clear	20	**IMT46223**
Thorsman cable ties	4.8 mm	380	Clear	20	**IMT46224**
Thorsman cable ties	4.8 mm	380	Black	20	**IMT46234**

Thorsman accessories



IMT47000


IMT47002


IMT47004

- Self -adhesive base for fixing of cable ties. There are two sizes base, one for max. tie width 3.6 mm and the other for max. tie width 4.8 mm. Both self-adhesives are using high-end 3M form. There are additional screw-fix option cradle for fixing cable tie and cable tie with identification and marking tab.
- Material: PA6.6

Characteristics	Type	Dimensions H x W x D (mm)	Colour	Qty per package	References
Self-adhesive bases	For max. tie width 3.6 mm	19/19/5.8	Clear	100	**IMT47000**
Self-adhesive bases	For max. tie width 4.8 mm	28/28/6.4	Clear	100	**IMT47001**
Cradle	For max. tie width 7.8 mm	22/16/9.6	Clear	100	**IMT47002**
Cable tie with ID tab	Cable tie with ID tab 100 x 2.5 mm	100/2.5	Clear	100	**IMT47004**

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Ducts

Corrugated cable tube

- Corrugated tube allowing cable entry between the structure and the door.
- Free from halogens and heavy metals.
- UV protection.
- Material: Low-density polyethylene (LDPE)
- Colour: Black

Supply:
One 25 m reel


NSYCPT17

Characteristics	Ø Nominal (mm)	Ø Inner (mm)	Ø Outer (mm)	References
Corrugated cable tube	17	16.6	21.2	**NSYCPT17**
Corrugated cable tube	29	29	34.5	**NSYCPT29**
Corrugated cable tube	37	36	42.4	**NSYCPT37**
Corrugated cable tube	50	47.7	54.5	**NSYCPT50**

Fixing support for corrugated tube



- Mounting options: Directly on the enclosure, on a 19" swing rack and/or on cross rails, by means of a fixing point.
- The supports can be assembled with one another to form sets of tubes that allow a better arrangement of the cables.
- It allows the rotation of the tube once it is fixed on the support and prevents the corrugated tube from coming loose if subject to pulling movements.
- Material: Polyamide (PA), black.

Supply:
10 units and fixing elements.
The support is supplied with its cover.


NSYCPTS17

Characteristics	Model (nominal Ø)	References
Fixing support for corrugated tube	17	**NSYCPTS17**
Fixing support for corrugated tube	29	**NSYCPTS29**
Fixing support for corrugated tube	37	**NSYCPTS37**
Fixing support for corrugated tube	50	**NSYCPTS50**

Spiral cable duct

- Spiral strip for bundling cables.
- Allows cables to enter between the body and the door.
- Colour: Colourless

Supply:
One 50 m reel


NSYTC12100

Characteristics	Tightening range (mm)	Ø Inner (mm)	Ø Outer (mm)	References
Corrugated cable tube	12 to 100	9	12	**NSYTC12100**

Lyre-shaped clamps

- Clip-on clamps designed for direct installation on the 19" racks, Telequick mounting plates and symmetric DIN rails.
- Colour: Black

Supply:
10 units. Reference by unit.
Order by multiples of 10 (10, 20, 30...)


AK2LA39

Characteristics	Use	References
Lyre-shaped clamps	For Telequick mounting plates and 19" racks	**AK2LA39**
Lyre-shaped clamps	For symmetric DIN rail 90 x 2.5 mm cables	**AK2LD01**
Lyre-shaped clamps	For symmetric DIN rail 75 x 2.5 mm cables	**AK2LD02**

Steel wired cable tray

- Mounting on the cable supports.
- Dimensions (2 types):
  1845 x 200 x 35 mm.
  1845 x 200 x 54 mm.
- Material: Zinc-coated steel wire

Supply:
1 vertical steel wired cable tray and fixing elements


NSYBPC3

Characteristics	Necessary depth (mm)	References
Steel wired cable tray	35	**NSYBPC3**
Steel wired cable tray	54	**NSYBPC5**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Cable-duct

- Temperature resistance: -5 ... +60°C
- Behaviour in fire: Material V0 according to UL 94
- Fire resistance: 960°C according to IEC 60695-2-1/1
- Maximum capacity of H07.V.K 1.5 mm² flexible wire (filling factor: 0.6)
- With lateral through slots and rear perforations.
- Material: Rigid PVC
- Colour: RAL 7030 grey or RAL 5000 blue
- Standards: Compliance with standards VDE 0660/506 and DIN 43659

Supply:
8 units. Supplied in lengths of 2 m


AK2GD7550

Characteristics	Width (mm)	Height (mm)	Color	References
Cable-duct	25	25	Grey	**AK2GD2525**
Cable-duct	25	50	Grey	**AK2GD2550**
Cable-duct	37.5	50	Grey	**AK2GD3750**
Cable-duct	37.5	75	Grey	**AK2GD3775**
Cable-duct	50	50	Grey	**AK2GD5050**
Cable-duct	50	75	Grey	**AK2GD5075**
Cable-duct	75	50	Grey	**AK2GD7550**
Cable-duct	75	75	Grey	**AK2GD7575**
Cable-duct	100	75	Grey	**AK2GD10075**
Cable-duct	125	75	Grey	**AK2GD12575**
Cable-duct	30	35	Blue	**AK2GA33**
Cable-duct	30	55	Blue	**AK2GA35**
Cable-duct	30	90	Blue	**AK2GA39**
Cable-duct	30	144	Blue	**AK2GA315**
Cable-duct	60	55	Blue	**AK2GA65**
Cable-duct	60	90	Blue	**AK2GA69**
Cable-duct	60	144	Blue	**AK2GA615**


AK2GA65

Covers for cable-duct

- Temperature resistance: -5 ... +60°C
- Behaviour in fire: Material V0 according to UL 94
- Fire resistance: 960°C according to IEC 60695-2-1/1
- Maximum capacity of H07.V.K 1.5 mm² flexible wire (filling factor: 0.6)
- Replacement covers.
- Material: Rigid PVC
- Colour: RAL 7030 grey or RAL 5000 blue
- Standards: Compliance with standards VDE 0660/506 and DIN 43659

Supply:
8 units. Supplied in lengths of 2 m


AK2CD75

Characteristics	Width (mm)	Height (mm)	Color	For Cable-duct Ref.	References
Covers for cable-duct	25	25	Grey	AK2GD2525	**AK2CD25**
Covers for cable-duct	25	50	Grey	AK2GD2550	**AK2CD25**
Covers for cable-duct	37.5	50	Grey	AK2GD3750	**AK2CD37**
Covers for cable-duct	37.5	75	Grey	AK2GD3775	**AK2CD37**
Covers for cable-duct	50	50	Grey	AK2GD5050	**AK2CD50**
Covers for cable-duct	50	75	Grey	AK2GD5075	**AK2CD50**
Covers for cable-duct	75	50	Grey	AK2GD7550	**AK2CD75**
Covers for cable-duct	75	75	Grey	AK2GD7575	**AK2CD75**
Covers for cable-duct	100	75	Grey	AK2GD10075	**AK2CD100**
Covers for cable-duct	125	75	Grey	AK2GD12575	**AK2CD125**
Covers for cable-duct	30	35	Blue	AK2GA33	**AK2CA3**
Covers for cable-duct	30	55	Blue	AK2GA35	**AK2CA3**
Covers for cable-duct	30	90	Blue	AK2GA39	**AK2CA3**
Covers for cable-duct	30	144	Blue	AK2GA315	**AK2CA3**
Covers for cable-duct	60	55	Blue	AK2GA65	**AK2CA6**
Covers for cable-duct	60	90	Blue	AK2GA69	**AK2CA6**
Covers for cable-duct	60	144	Blue	AK2GA615	**AK2CA6**


AK2CA6

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Retention bars

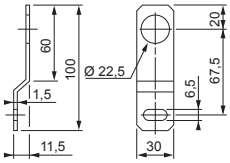

NSYCDRB

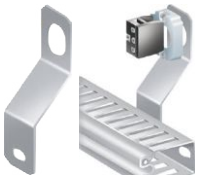
- Fixed between 2 cable-duct slats by a hinged screw, preventing cable dropout.
- They can be cut to length to adapt to the width of the ducting.
- Material: Flameproof high-impact polystyrene

Supply:
50 units. Reference by unit.
Order by multiples of 50 (50, 100, 150...)

Characteristics	References
Retention bars	**NSYCDRB**

S3D SM SF S3X Ø 22 mm cable-duct support SFX SDX PLA



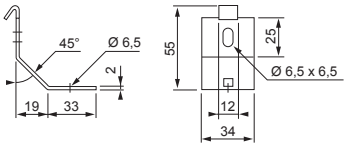

NSYSPCP

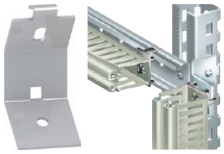
- Installed on the door of the wall-mounting or floor-standing enclosure associated with Ø 22 mm elements.
- Material: Treated steel

Supply:
10 units. Reference by unit.
Order by multiples of 10 (10, 20, 30...)

Characteristics	References
Ø 22 mm cable-duct support	**NSYSPCP**

SM SF SD SMX Cable-duct support on technical upright SFX SDX PLA



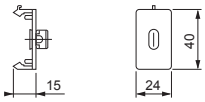

NSYCDS

- Allows cable ducts to be installed on technical uprights, while increasing the usable surface of the equipment (up to 20 % according to the width of the cable duct).
- Material: Galvanised steel

Supply:
10 units. Reference by unit.
Order by multiples of 10 (10, 20, 30...)

Characteristics	References
Cable-duct support on technical upright	**NSYCDS**

Plastic cable-duct support



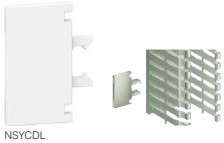

NSYSPC

- Clips onto the Telequick mounting plate or the 35 mm DIN rail.
- Includes a bolt for fixing the cable ducts through the 6.5 x 14 mm drill holes made in the back.
- The 2 functions, clipping and bolting, provide considerable time savings.
- Respects electrical insulation.
- Material: Black polyamide. Behaviour in fire: V0 according to UL 94

Supply:
20 units. Reference by unit.
Order by multiples of 20 (20, 40, 60...)

Characteristics	References
Plastic cable-duct support	**NSYSPC**

Label frame


NSYCDL

- In transparent plastic, clipping onto the slats of the cable ducts.
- Material: Polycarbonate

Supply:
50 units. Reference by unit.
Order by multiples of 50 (50, 100, 150...)
Paper labels supplied

Characteristics	References
Label frame	**NSYCDL**

Insulated-head screw


NSYSM10M5HP

- M5 x 10 mm slotted hexagonal head.
- Respects electrical insulation.

Supply:
100 units. Reference by unit.
Order by multiples of 100 (100, 200, 300...)

Characteristics	References
Insulated-head screw	**NSYSM10M5HP**

Cable-duct support with quick fixing system


NSYSPCD

- Fixing mode: By screws - upright location
- Material: Galvanised steel

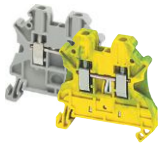
Supply:
Set of 3

Characteristics	References
Cable-duct support with quick fixing system	**NSYSPCD**

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Terminal blocks

Characteristics			Connection technology					
								
Type of terminal block	Cross section area	Colour	Screw tech	Spring tech	Push-in tech	Miniature screw for 15 mm DIN rail	Miniature spring for 15 mm DIN rail	Miniature spring for direct mount
			References	References	References	References	References	References
Passthrough	2.5 mm² (2-Pts)	Grey	**NSYTRV22**	**NSYTRR22**	**NSYTRP22**	**NSYTRV22M**	**NSYTRR22M**	**NSYTRR22MF**
		Blue	**NSYTRV22BL**	**NSYTRR22BL**	**NSYTRP22BL**	**NSYTRV22MBL**	**NSYTRR22MBL**	**NSYTRR22MFBL**
		Orange	**NSYTRV22AR**	**NSYTRR22AR**	**NSYTRP22AR**	-	-	**NSYTRR22MFF***
	2.5 mm² (3 Pts)	Grey	-	**NSYTRR23**	**NSYTRP23**	-	-	-
		Blue	-	**NSYTRR23BL**	**NSYTRP23BL**	-	-	-
		Orange	-	**NSYTRR23AR**	**NSYTRP23AR**	-	-	-
	2.5 mm² (4 Pts, 1 Level)	Grey	-	**NSYTRR24**	**NSYTRP24**	-	**NSYTRR24M**	**NSYTRR24M**
		Blue	-	**NSYTRR24BL**	**NSYTRP24BL**	-	**NSYTRR24MBL**	**NSYTRR24MBL**
	2.5 mm² (4 Pts, 2 Levels)	Grey	**NSYTRV24D**	**NSYTRR24D**	**NSYTRP24D**	-	-	-
		Blue	**NSYTRV24DBL**	**NSYTRR24DBL**	**NSYTRP24DBL**	-	-	-
	4 mm² (2 Pts)	Grey	**NSYTRV42**	**NSYTRR42**	**NSYTRP42**	**NSYTRV42M**	-	-
		Blue	**NSYTRV42BL**	**NSYTRR42BL**	**NSYTRP42BL**	**NSYTRV42MBL**	-	-
		Orange	**NSYTRV42AR**	**NSYTRR42AR**	-	-	-	-
	4 mm² (3 Pts)	Grey	**NSYTRV43**	**NSYTRR43**	**NSYTRP43**	-	-	-
		Blue	**NSYTRV43BL**	**NSYTRR43BL**	**NSYTRP43BL**	-	-	-
		Orange	**NSYTRV43AR**	-	-	-	-	-
	4 mm² (4 Pts, 1 Level)	Grey	**NSYTRV44**	**NSYTRR44**	**NSYTRP44**	-	-	-
		Blue	**NSYTRV44BL**	**NSYTRR44BL**	**NSYTRP44BL**	-	-	-
	4 mm² (4 Pts, 2 Levels)	Grey	**NSYTRV44D**	**NSYTRR44D**	-	-	-	-
		Blue	**NSYTRV44DBL**	**NSYTRR44DBL**	-	-	-	-
	6 mm² (2 Pts)	Grey	**NSYTRV62**	**NSYTRR62**	-	-	-	-
		Blue	**NSYTRV62BL**	**NSYTRR62BL**	-	-	-	-
	10 mm² (2 Pts)	Grey	**NSYTRV102**	**NSYTRR102**	-	-	-	-
		Blue	**NSYTRV102BL**	**NSYTRR102BL**	-	-	-	-
	16 mm² (2 Pts)	Grey	**NSYTRV162**	**NSYTRR162**	-	-	-	-
		Blue	**NSYTRV162BL**	**NSYTRR162BL**	-	-	-	-
	150 mm² (2 Pts)	Grey	**NSYTRV1502BB**	-	-	**NSYTRV22MPE**	**NSYTRR22MPE**	-
Earth protection	2.5 mm² (2-Pts)	Green	**NSYTRV22PE**	**NSYTRR22PE**	**NSYTRP22PE**	-	-	-
	2.5 mm² (3 Pts)	Green	-	**NSYTRR23PE**	**NSYTRP23PE**	-	-	-
	2.5 mm² (4 Pts)	Green	-	**NSYTRR24PE**	**NSYTRP24PE**	-	-	-
	4 mm² (2 Pts)	Green	**NSYTRV42PE**	**NSYTRR42PE**	**NSYTRP42PE**	**NSYTRV42MPE**	-	-
	4 mm² (3 Pts)	Green	**NSYTRV43PE**	**NSYTRR43PE**	**NSYTRP43PE**	-	-	-
	4 mm² (4 Pts)	Green	**NSYTRV44PE**	**NSYTRR44PE**	**NSYTRP44PE**	-	-	-
	6 mm² (2 Pts)	Green	**NSYTRV62PE**	**NSYTRR62PE**	-	-	-	-
	10 mm² (2 Pts)	Green	**NSYTRV102PE**	**NSYTRR102PE**	-	-	-	-
	16 mm² (2 Pts)	Green	**NSYTRV162PE**	**NSYTRR162PE**	-	-	-	-
Knife disconnect	2.5 mm² (2-Pts)	Grey	**NSYTRV42ST** (1)	**NSYTRR22SC**	**NSYTRP22SC**	-	-	-
		Orange	**NSYTRV42STAR** (1)	**NSYTRR22SCAR**	-	-	-	-
	2.5 mm² (3 Pts)	Grey	-	**NSYTRR23SC**	**NSYTRP23SC**	-	-	-
		Orange	-	**NSYTRR23SCAR**	-	-	-	-
	2.5 mm² (2 Levels)	Grey	**NSYTRV42SCD** (1)	**NSYTRR24SCD**	-	-	-	-
Fuse disconnect	4 mm² (2 Pts) 5 x 20 mm fuse	Black	**NSYTRV42SF5**	-	-	-	-	-
		Black (12 V)	**NSYTRV42SF5LD** (2)	-	-	-	-	-
		Black (230 V)	**NSYTRV42SF5LA** (2)	-	-	-	-	-
Basic disconnect (3)	4 mm² (2 Pts)	Grey	**NSYTRV42TB**	**NSYTRR22TB**	**NSYTRP42TB**	-	-	-
Measuring transducer	6 mm² (2 Pts) disconnect	Grey/Orange	**NSYTRV62TTD**	-	-	-	-	-
	6 mm² (2 Pts)	Grey	**NSYTRV62TT**	-	-	-	-	-
		Green	**NSYTRV62TTPE**	-	-	-	-	

(1) 4 mm² terminal, with 2 test points
(2) With light indicator
(3) Fuse or component carrier not supplied.

* Grey terminal with flange.

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	Accessories					Cable ends	
							
Miniature spring for direct mount	End plate for screw TBs	End plate for spring TBs	End plate for push-in TBs	Plug-in bridge	Marking strips 10 characters	compatible with all technologies	
References	References	References	References	References	References	Wires Cross section area	References
NSYTRR22MP	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22 NSYTRAL23 NSYTRAL24 NSYTRAL25 NSYTRAL210 NSYTRAL210BL NSYTRAL210GR NSYTRAL220	NSYTRAB510 NSYTRAB520 NSYTRAB530 NSYTRAB540 NSYTRAB550 … NSYTRAB590 NSYTRAB5100 NSYTRAB51100	0.5 mm²	DZ5CE005
NSYTRR22MPBL	NSYTRAC22BL	NSYTRACR22BL	NSYTRACR22BL			0.5 mm²	DZ5CA005
-	-	-	-			0.75 mm²	DZ5CE007
-	-	NSYTRACR23	NSYTRACR23			0.75 mm²	DZ5CA007
-	-	NSYTRACR23BL	NSYTRACR23BL			1 mm²	DZ5CE010
-	-	-	-			1 mm²	DZ5CA010
NSYTRR24MP	-	NSYTRACR24	NSYTRACR24			1.5 mm²	DZ5CE015
NSYTRR24MPBL	-	NSYTRACR24BL	NSYTRACR24BL			1.5 mm²	DZ5CA015
-	NSYTRACE24	NSYTRACRE24	NSYTRACRE24			2.5 mm²	DZ5CE025
-	-	-	-			2.5 mm²	DZ5CA025
-	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42 NSYTRAL43 NSYTRAL44 NSYTRAL45 NSYTRAL410 NSYTRAL410BL NSYTRAL410GR NSYTRAL420	NSYTRAB610 NSYTRAB620 NSYTRAB630 NSYTRAB640 NSYTRAB650 … NSYTRAB690 NSYTRAB6100 NSYTRAB61100	4 mm²	DZ5CE042
-	NSYTRAC22BL	-	-			4 mm²	DZ5CA042
-	-	-	-			6 mm²	DZ5CE062
-	NSYTRAC23	NSYTRACR43	NSYTRACP43			6 mm²	DZ5CA062
-	-	-	-			10 mm²	DZ5CA102
-	-	-	-			16 mm²	DZ5CA162
-	NSYTRAC24	NSYTRACR44	NSYTRACP44			35 mm²	DZ5CA352
-	-	-	-			50 mm²	DZ5CA502
-	NSYTRACE24	NSYTRACRE44	-				
-	-	-	-				
-	NSYTRAC22	NSYTRACR62	-	NSYTRAL62	NSYTRAB810		
-	NSYTRAC22BL	-	-	NSYTRAL610	NSYTRAB820		
-	NSYTRAC22	NSYTRACR102	-	NSYTRAL102	NSYTRAB1010		
-	NSYTRAC22BL	-	-	-	NSYTRAB1020		
-	NSYTRAC162	NSYTRACR162	-	NSYTRAL162	NSYTRAB1010		
-	-	-	-	-	NSYTRAB1020		
-	NSYTRAC952	-	-	NSYTRAL1502			
-	NSYTRAC22	NSYTRACR22	NSYTRACR22	-			
-	-	NSYTRACR23	NSYTRACR23	-			
-	-	NSYTRACR24	NSYTRACR24	-			
-	NSYTRAC22	NSYTRACR42	NSYTRACR42	-			
-	NSYTRAC23	NSYTRACR43	NSYTRACP43	-			
-	NSYTRAC24	NSYTRACR44	NSYTRACP44	-			
-	NSYTRAC22	NSYTRACR62	-	-			
-	NSYTRAC22	NSYTRACR102	-	-			
-	NSYTRAC162	NSYTRACR162	-	-			
-	Included	NSYTRACR23	NSYTRACPK22	-			
-	Included	-	-	-			
-	-	NSYTRACR24	NSYTRACPK23	-			
-	-	-	-	-			
-	NSYTRACE24	Included	-	-			
-	Included	-	-	-			
-	Included	-	-	-			
-	Included	-	-	-			
-	Included	NSYTRACR23	NSYTRACR42	-			
-	NSYTRACT22	-	-	-			
-	NSYTRACT22	-	-	-			
	NSYTRACT22	-	-	-			

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LED lamps

Note:
Dimensions, see page 311



Characteristics	Multi-Fixing LED Lamps	
	This LED lamps are designed to optimise the life time, consumption, space and accessibility inside the enclosure, as well as having three fixing option as standard.	
Colour	Black RAL 9005	
Ingress protection rating	IP20 according to IEC60529	
Standards	• IEC 60598 • UL 94: For plastic components • UL508A: Control Panel	• UL1598: Lamps • UL8750: LED for lighting • EN55015: EMC
Other characteristics	• Built-in switch • Power consumption: 10 W • Frequency: 50/60 Hz • Power factor: V AC lamps: 0.9 V DC lamps: 1 • Luminosity: 640 lm* • Light Temperature: 4000 K* • LED service life: 25000 h*	• Casing: Plastic UL94 V-0 • Degree of insulation: Class I - Lamps with socket Class II - Lamps without socket • Compliant with RoHS and Reach • Ambiance temperature: Operating: -16°C to +65°C (-3°F to +149°F) Storage: -10°C to +60°C (-14°F to +140°F) • Max. 2 Apms and 5 lamps in serial connection
Connections	• 3 m power black or orange cable with quick connector (Not supplied. See reference below) • 1.5 m interconnection black or orange cable with quick connectors (Not supplied. See reference below) According to the directive IEC 60204-1: • Black cables: Power circuits for switch or DC voltage. • Orange cables: External voltage that may be present even if the cabinet is turned off.	
Supply	• 1 lamp and fixing elements	

Lamp model	Lamps			Cables			
	Socket			Black cables		Orange cables	
			References	Power (3 m) References	Interconnection (1.5 m) References	Power (3 m) References	Interconnection (1.5 m) References
With socket 120 / 230 V AC	SCHUKO		**NSYLAMLDS**	**NSYLAM3M**	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
With socket 120 / 230 V AC	UTE		**NSYLAMLDF**	**NSYLAM3M**	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
With socket 120 / 230 V AC	British		**NSYLAMLDB**	**NSYLAM3M**	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
With socket 120 V AC	USA		**NSYLAMLDU**	**NSYLAM3MUL**	**NSYLAM1MUL**	**NSYLAM3MULN**	**NSYLAM1MULN**
Without socket 120 / 230 V AC	–	–	**NSYLAMLD**	**NSYLAM3M**	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
Without socket 120 / 230 V AC		–		**NSYLAM3MUL**	**NSYLAM1MUL**	**NSYLAM3MULN**	**NSYLAM1MULN**
Without socket With presence detection 230 V AC	–	–	**NSYLAMLDD**	**NSYLAM3M**	**NSYLAM1M**	**NSYLAM3MN**	**NSYLAM1MN**
Without socket With presence detection 230 V AC				**NSYLAM3MUL**	**NSYLAM1MUL**	**NSYLAM3MULN**	**NSYLAM1MULN**
Without socket - DC 24-48 V DC	–	–	**NSYLAMLDVDC**	**NSYLAM3MDC**	-	-	-
Without socket - DC 24-48 V DC				**NSYLAM3MDCUL**	-	-	-

Rack for VDI

Supply:
supplied with fixing elements.

• 1 U, 19" rack. For lamp installation in VDI enclosures.


NSYLAM1U

Characteristics	References
Rack for VDI	**NSYLAM1U**

Fixing options

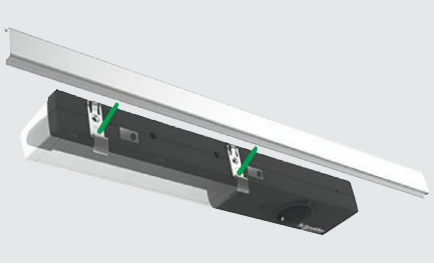
Fixing by sliding brackets



Magnetic fixing.



Fixing to DIN rail.



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

LED lamps

3 pole connectors


NSYLAMACF


NSYLAMDCF


NSYLAMACM


NSYLAMDCM

- Designed to connect Multi-Fixing LED Lamps.
- Colour:
  AC: Black
  DC: Black (body) and brown (head)
- Ingress protection rating: IP20
- Rated current: 16 A
- Rated voltage: 250 V
- Strain relief: Yes
- Connection type for cabling: Screw connection
- Material: Polyamide
- Dimensions:
  Length: 53.2 mm
  Width: 23 mm
  Height: 13.8 mm

- **Connection data:**
  Cable diameter: 9 mm
  Cable diameter 2: 5.5 mm
  Cross section solid: 2.5 mm²
  Cross section solid 2: 0.5 mm²
  Connection cross section stranded (max.): 2.5 mm²
  Cross section stranded 2: 0.5 mm²

Characteristics	References	
3 pole female connectors AC model	**NSYLAMACF**	New
3 pole female connectors DC model	**NSYLAMDCF**	New
3 pole male connectors AC model	**NSYLAMACM**	New
3 pole male connectors DC model	**NSYLAMDCM**	New

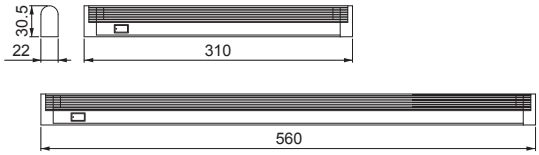
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LED lamps

Cost-effective LED lamps

- This LED lamp is designed to optimise the cost benefit relation and can be used in almost all enclosures respecting the dimensions.
  It can be interconnected using a single power source:
  5 W lamps: Max. 10 lamps interconnected,
  10 W lamps: Max. 5 lamps interconnected.
- Built-in switch
- Light Temperature: 4000 K*
- LED service life: 25000 h*
- Casing:
  Plastic for transparent cover and connectors
  Aluminium for body
- Degree of insulation: Class I
- Compliant with RoHS and Reach
- Ambiance temperature:
  Operating: -10°C to +60°C (-14°F to +140°F)
  Storage: -16°C to +65°C (-3°F to +149°F)
- Colour: Aluminium
- Ingress protection rating: IP20 according to IEC60529
- Standards: IEC 60598



Supply:
1 lamp and fixing elements
3 m connection cable with quick connector
1 m interconnection cable with quick connectors

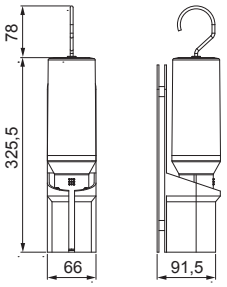
* Approximate values.


NSYLAMT5LD1

Characteristics	Voltage (V)	Power (W)	Power factor	Frequency (Hz)	Luminous flux (lm)*	References
Cost-effective LED lamps	120/230 V AC	5	0.8	50-60	500	**NSYLAMT5LD1**
Cost-effective LED lamps	120/230 V AC	10	0.9	50-60	1100	**NSYLAMT5LD2**
Cost-effective LED lamps	24/48 V DC	5	1	-	470	**NSYLAMT5LD1VDC**

Portable LED lamp

- This LED portable lamp is designed to be installed as
- enclosure lamp or maintenance lamp bringing mobility,
- resistance, versatility and durability.
- Double function:
  internal enclosure lamp,
  maintenance lamp.
- E27 LED lamp
- Built-in recessed switch
- Light temperature: 4000 K*
- LED service life: 25000 h*
- Power cable 3 m long with male plug (European standard type)
- Casing: Plastic, UL94 V-0
- Degree of insulation: Class II
- Compliant with RoHS and Reach
- Ambiance temperature:
  Operating: -16°C to +65°C (-3°F to +149°F)
  Storage: -10°C to +60°C (-14°F to +140°F)
- Colour: Black RAL 9005
- Ingress protection rating: IP20 according to IEC60529
- Standards:
  IEC 60598
  UL 94: For plastic components



Supply:
1 lamp with 3 m power cable with European universal plug
1 fix base
Fixing elements

* Approximate values.


NSYLAMPORTLD

Characteristics	Voltage (V)	Power (W)	Power factor	Frequency (Hz)	Luminous flux (lm)*	References
Portable LED lamp	120/230 V AC	10	0.5	50-60	1100	**NSYLAMPORTLD**

Fixing options

Magnetic fixing.



Fixing by adapter brackets.



Use options

Fixing by adhesive or by screws.



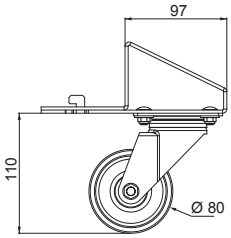
Used on workbench.



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Casters and feet for floor-standing enclosures

SM SF SD Transport casters*





NSYSTW

- Quick installation on plinths with heights of 100 and 200 mm, except the plinth for enclosure sets.
- They can be installed in front or side position.
- Clipping and fixing to the corner by screws.
- For use on flat surfaces.
- Height: 110 mm
- Maximum load: 200 kg

Supply:
4 transport casters
(2 with a blocking system)
and fixing elements

Characteristics	References
Transport casters	**NSYSTW**

SM SF SD Enclosure casters
SMX SFX SDX



NSYSW

- Double casters.
- Height: 92 mm.
- Diameter: 64 mm.
- Maximum load:
  135 kg per caster
  1000 kg when it is installed directly on the upright,
  400 kg when it is installed on the frame

Supply:
4 casters and fixing elements

Characteristics	References
Enclosure casters	**NSYSW**

SM SF SD Levelling feet
SMX SFX SDX



NSYSPSJ

- Height: 42 mm
- Material: Steel
- Maximum load: 400 kg

Supply:
Set of 4 floor feet

Characteristics	References
Levelling feet fixed	**NSYSPSJ**

SM SF SD Levelling feet
SMX SFX SDX



NSYSPRJ

- Height: 22 mm
- Maximum load: 400 kg

Supply:
Set of 4 floor feet

Characteristics	References
Levelling feet adjustable	**NSYSPRJ**

SM SF SD Hygienic stainless steel feet
SMX SFX SDX



NSYPHX200

- Hygienic feet specific for harsh environments.
- Adjustable: 140 to 200 mm.
- Material: 316L stainless steel
- Maximum load: 800 kg

Supply:
Set of 4 hygienic feet

Characteristics	References
Hygienic stainless steel feet	**NSYPHX200**

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Switches and pockets

S3D S3X Door switch for wall-mounting enclosures



NSYINLCRN

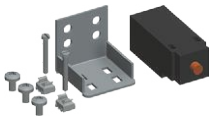
- Switch/commutator unit equipped with support and fixings for direct fixing to the enclosure.
- Can be used to control lighting, air-conditioning units, etc.
- It is not compatible with installing the 19" swing rack and the internal door.
- NC + NO contact, 10 A/500 V.

Supply:
1 door switch and fixing elements

Characteristics	References
Door switch for wall-mounting enclosures	**NSYINLCRN**

SM SF SFX Door switch for floor-standing enclosures





NSYDCM20

- The switch is fixed to the structure of the enclosure.
- Drilled M20 cable entry for cable gland.
- NC + NO contact, 10 A/500 V.

Supply:
1 door switch and fixing elements

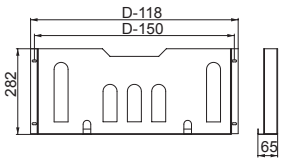
Characteristics	For ranges	References
Door switch for floor-standing enclosures	SF and SFX	**NSYDCM20**
Door switch for floor-standing enclosures	SM	**NSYMDCM20**

SF SM Metal document pocket



NSYSDP6M

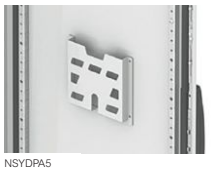
- Direct mounting on the reinforcement frame of the door.
- Adjustable depth with a pitch of 25 mm.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey



Supply:
1 metal document pocket and fixing elements

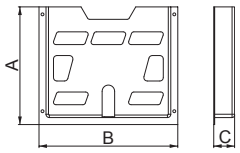
Characteristics	Width (mm)	References
Spacial SF/SM Metal document pocket	600	**NSYSDP6M**
Spacial SF/SM Metal document pocket	800	**NSYSDP8M**

SF SM Plastic document pocket



NSYDPA5

- Attachment by adhesive tape.
- Material: Polystyrene (PS)
- Colour: RAL 7035 grey (**NSYDPA4**: RAL 9001)



Note:
NSYDPA44 not compatible with 19" chassis or modular distribution.

Supply:
1 plastic document pocket

Characteristics	Doc. format	A (mm)	B (mm)	C (mm)	References
Spacial SF/SM Plastic document pocket	A5	174	188	22	**NSYDPA5**
Spacial SF/SM Plastic document pocket	A4	230	247	23	**NSYDPA4**
Spacial SF/SM Plastic document pocket	A4	234	278	40	**NSYDPA44**
Spacial SF/SM Plastic document pocket	A3	285	476	35	**NSYDPA3**

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Door accessories for floor-standing enclosures

SF SM Folding support tray

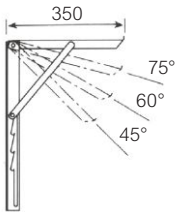


NSYSDT5



NSYSDT8

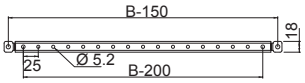
- Adjustable horizontal support for laptop computers, documents or any other element.
- Installation on the reinforcement frame of the door.
- Can also be installed on the door cross rails.
- 4 positions: 45°, 60°, 75° and 90°.
- Maximum load: 30 kg
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey



Supply:
1 folding support tray and fixing elements

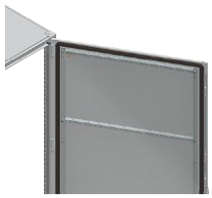
Characteristics	Width (mm)	References
Spacial SF/SM-Folding support tray	500	**NSYSDT5**
Spacial SF/SM-Folding support tray	600	**NSYSDT6**
Spacial SF/SM-Folding support tray	800	**NSYSDT8**

Door cross rails



- Direct mounting cross rails on the profiles of the reinforcement frame of the door.
- Adjustable height with a pitch of 25 mm.
- Material: Galvanised steel
- Thickness: 20/10e mm

Supply:
2 cross rails and bag of fixings



NSYSDCR4

Characteristics	Width (B)	References
Door cross rails	400	**NSYSDCR4**
Door cross rails	500	**NSYSDCR5**
Door cross rails	600	**NSYSDCR6**
Door cross rails	800	**NSYSDCR8**
Door cross rails	1000	**NSYSDCR10**

SM Floor-standing door retainer



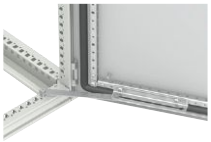
NSYSMDR

- Door blocker at the opening limit.
- It is fixed directly to the front frame of them enclosure and to the reinforcement frame of the door.
- It can be installed on doors that open both to the right and to the left.

Supply:
Door stop and fixing elements

Characteristics	Limit	References
Floor-standing door retainer	90°	**NSYSMDR**
Floor-standing door retainer, Compatible with SFX	90° and 120°	**NSYSMNDR**

SF Floor-standing door retainer





NSYSFMDR

- Door blocker at the opening limit.
- It is fixed directly to the front frame of them enclosure and to the reinforcement frame of the door.
- It can be installed on doors that open both to the right and to the left.

Supply:
Door stop and fixing elements

Characteristics	Limit	References
Floor-standing door retainer	90° and 120°	**NSYSFMDR**
Floor-standing door retainer	120°	**NSYSFNDR**

10

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Door accessories for wall-mounting enclosures

S3D S3X Wall-mounting door retainer Steel


NSYAEDRSCST

To block the door in the open position.
- It is installed on enclosures with heights from 400 mm and widths from 300 mm.
- Door opening angle: 120°.
- Earthing connection of the enclosure by means of the reinforcement rail.
- Earthing accessories supplied with the enclosure (earth-connection wire to be ordered separately), see page 295.
- Material: Steel

Note:
Cannot be installed on 19" mounting plates or on enclosures equipped with internal door.

Characteristics	References
Wall-mounting door retainer Steel	**NSYAEDRSCST**

S3D Wall-mounting door retainer Polyamide


NSYAEDRS3DPA6

To block the door in the open position.
- It is installed on the perforated rails of the enclosure doors at the required height.
- Material: Polyamide 6 (PA6)

Note:
It is only installed on enclosures with a height of less than 400 mm (no perforated rails).

Characteristics	References
Wall-mounting door retainer Polyamide	**NSYAEDRS3DPA6**

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Windows

Window for modular equipment

Fig. 1

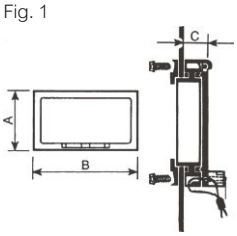
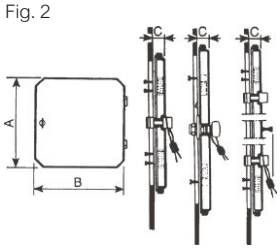


Fig. 2



- They provide viewing and access to the inside of the enclosure while keeping the IP65 protection degree.
- Material: Transparent polycarbonate
- Ingress protection rating: IP65 according to IEC 60529

Supply:
1 window


NSYVA278M


NSYVA272MA

Characteristics	N.° of modules	Fig. n.°	A	B	C	References
Window for modular equipment, Low cover	2	1	78	60	15	**NSYVA272M**
Window for modular equipment, Low cover	4	1	78	95	15	**NSYVA274M**
Window for modular equipment, Low cover	6	1	78	130	15	**NSYVA276M**
Window for modular equipment, Low cover	8	1	78	165	15	**NSYVA278M**
Window for modular equipment, Low cover	10	1	78	200	15	**NSYVA2710M**
Window for modular equipment, Low cover	12	1	78	235	15	**NSYVA2712M**
Window for modular equipment, Low cover	16	2	195	165	13	**NSYVA2716M**
Window for modular equipment, Low cover	24 in 2 rows	2	196	235	13	**NSYVA2724M**
Window for modular equipment, High cover	2	1	78	60	25	**NSYVA272MA**
Window for modular equipment, High cover	4	1	78	95	25	**NSYVA274MA**
Window for modular equipment, High cover	6	1	78	130	25	**NSYVA276MA**
Window for modular equipment, High cover	8	1	78	165	25	**NSYVA278MA**
Window for modular equipment, High cover	10	1	78	200	25	**NSYVA2710MA**
Window for modular equipment, High cover	12	1	78	235	25	**NSYVA2712MA**

Plastic window

- Plastic window with hinged cover for installation on front panel.
- External dimensions: 213 x 133 mm.
- Internal dimensions of the window: 180 x 78 mm.
- Material:
  Cover: Polycarbonate
  Body: PVC
- Ingress protection rating: IP55 according to IEC 60529

Supply:
1 plastic window delivered with a drilling template


NSYMW10M

Characteristics	References
Plastic window	**NSYMW10M**

Plastic window for modular equipment

- Frame with transparent hinged cover for mounting modular switchgear on the front panel.
- Opening: 46 x 180 mm (10 modules).
- Material:
  Cover: Polycarbonate
  Body: PVC
- Ingress protection rating: IP55 according to IEC 60529

Supply:
1 modular front panel


NSYMW10MK

Characteristics	References
Plastic window for modular equipment	**NSYMW10MK**

Kit for fixing the switchgear


NSYMW10MR

- The unit is delivered assembled.

Supply:
1 DIN rail and two supports.

Characteristics	References
Kit for fixing the switchgear	**NSYMW10MR**

Mounting example

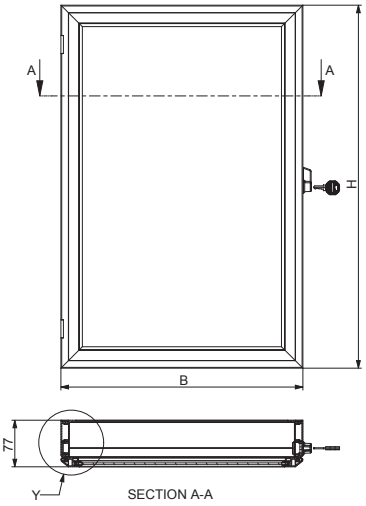
NSYMW10MK + NSYMW10MR.

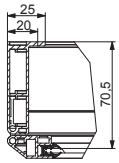


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Control window





- To prevent accidental handling of the control units by any unauthorised person.
- Allows all the displayed information to be read without opening the door.
- Equipped with hinges for opening (180°).
- Closure by a n° 2233X lock.
- Indoor installation.
- Material: Aluminium frame and 3 mm acrylic window

Supply:
1 window, fixings
and instruction sheet


NSYCW33

Characteristics	Dimensions A (mm)	Dimensions B (mm)	References
Control window	300	300	**NSYCW33**
Control window	400	400	**NSYCW44**
Control window	400	500	**NSYCW45**
Control window	400	600	**NSYCW46**
Control window	500	400	**NSYCW54**
Control window	500	500	**NSYCW55**
Control window	500	600	**NSYCW56**
Control window	600	500	**NSYCW65**
Control window	600	600	**NSYCW66**
Control window	800	600	**NSYCW86**

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Earthing accessories

Earthing strip


NSYECB1M153

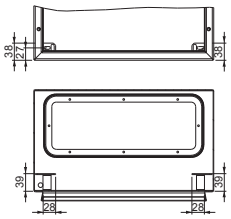
- Perforated brass bar, 15 x 3 mm.
- 1 m long.
- 87 connection points, M5 drill holes

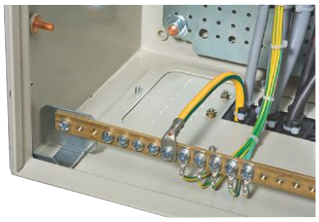
Supply:
1 earthing strip
and fixing elements

Characteristics	References
Earthing strip	**NSYECB1M153**

S3D S3X Fixing lugs for the earthing strip


NSYEDCOS





- They allow the mounting of an earthcollector rail or a DIN rail at the top and bottom of an enclosure.
- Mounting incompatible with certain accessories. Please consult us.
- Fixing: On holes made in the gutter of the enclosure.

Supply:
2 lugs and fixings.

Characteristics	References
Fixing lugs for the earthing strip	**NSYEDCOS**

SM SF SD SMX SFX SDX Central earthing point


NSYCEP

- Connects earthing braids and cables to the structure of the enclosure.
- The earth connection is made by means of the M8 x 18 mm bolt.
- Fixing: Fixing to the structure by means of self-tapping screws

Supply:
1 central earthing point, elements for fixing to the structure,
and fixings for fixing to the bolt

Characteristics	References
Central earthing point	**NSYCEP**

Earth braids


NSYEB156D6

- They guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.
- Material: Tinned copper.

Supply:
10 earth braids
(nuts and washers not included)

Characteristics	Section (mm²)	Terminal Ø (mm)	Length (mm)	Width (mm)	References
Earth braids	6	7	150	12	**NSYEB156D6**
Earth braids	10	6.5	150	17	**NSYEB1510D6**
Earth braids	16	8.5	155	17	**NSYEB1516D8**
Earth braids	25	8.5	200	27	**NSYEB2025D8**
Earth braids	50	8.5	200	33	**NSYEB2050D8**

Earth cables


NSYEL136D6

- Make it easier to install a safe earth connection, with a perfect contact, with optimised length.
- Material: Brass and copper alloy terminal, green and yellow PVC insulating sheath

Supply:
10 earth cables (nuts and washers not included). Reference by unit. Order by multiples of 10 (10, 20, 30...)

Characteristics	Section (mm²)	Terminal Ø (mm)	Length (mm)	References
Earth cables	6	6.4	130	**NSYEL136D6**
Earth cables	6	6.4	160	**NSYEL166D6**
Earth cables	6	8.3	160	**NSYEL166D8**
Earth cables	10	8.3	170	**NSYEL1710D6**
Earth cables	6	6.4	220	**NSYEL226D6**
Earth cables	6	13	220	**NSYEL226D13**
Earth cables	25	8.3	220	**NSYEL2225D8**
Earth cables	10	6.4	250	**NSYEL2510D6**
Earth cables	25	8.3	350	**NSYEL3525D8**

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Paint accessories

Aerosol paint can



NSYBPA7032

- Air-drying paint.
- Content: 150 g.

Note:
Not available for destinations outside Europe.

Characteristics	References
Aerosol paint can, RAL 7032	**NSYBPA7032**
Aerosol paint can, RAL 7035 grey	**NSYBPA7035**

Paint touch-up


NSYTUP7032

- Paint for touching up with a brush.
- Air-drying paint.

Characteristics	References
Paint touch-up, RAL 7032	**NSYTUP7032**
Paint touch-up, RAL 7035 grey	**NSYTUP7035**

Renovation and anti graffiti paint


NSYAUPG1G

Supply: NSYAUPG1G
The 1 kg reference includes 1 pot with 800 g of base paint and 200 g of hardener
(It is enough to paint a surface of around 5 m2)

Supply: NSYAUPG5G
The 5 kg reference includes 1 pot with 4 kg of base paint and 1 kg of hardener
(It is enough to paint a surface of around 25 m²)

- Paint kit with 2 components (base 80 % + hardener 20 %)
- Specially designed for polyester enclosures, for their renovation and/or as prevention to allow easy removal of graffiti.
- Colour: RAL 7035 grey

Characteristics	References
Renovation and anti graffiti paint	**NSYAUPG1G**
Renovation and anti graffiti paint	**NSYAUPG5G**

Supply:
1 kg

- Solvent bottles to be used as a paint thinner or to clean brushes.

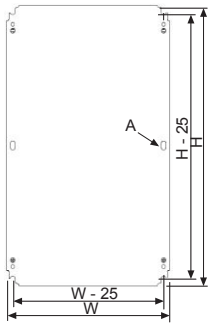
Characteristics	References
Renovation and anti graffiti paint solvent	**NSYAUPGS**

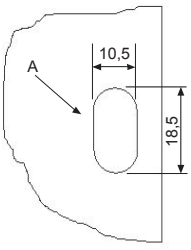
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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

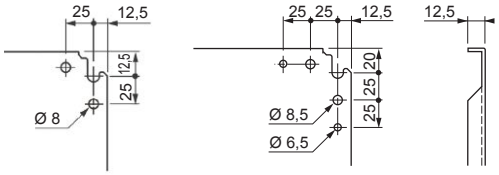
Mounting plates for wall-mounting enclosures

Plain and silkscreened mounting plates

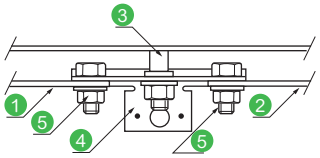




Only for 1000 x 800

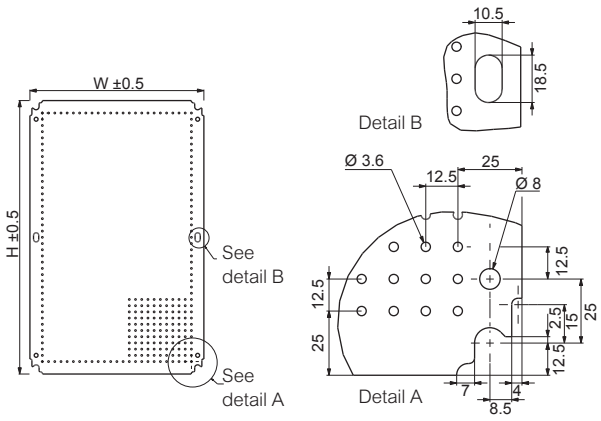


From the size of 1000 x 1000

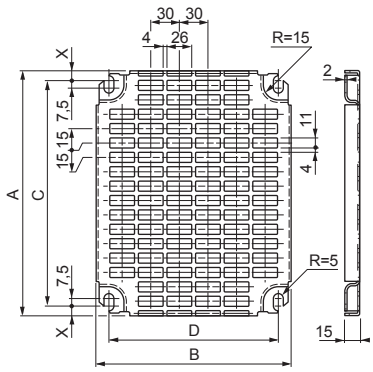


1. Left plate
2. Right plate
3. Central backstud
4. **NSYCRNGSDR** bracket (includes fixings)
5. M8 x 20 mm screw

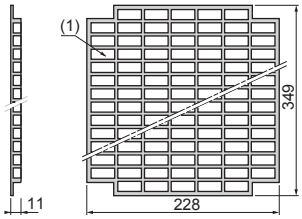
Microperforated mounting plate

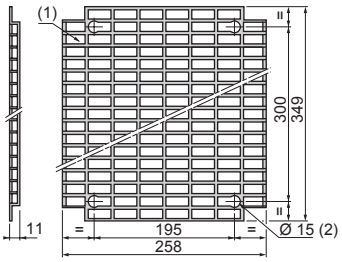


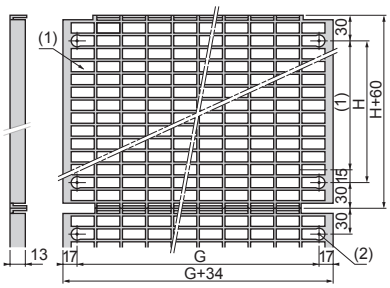
Telequick mounting plate



Joinable Telequick mounting plate





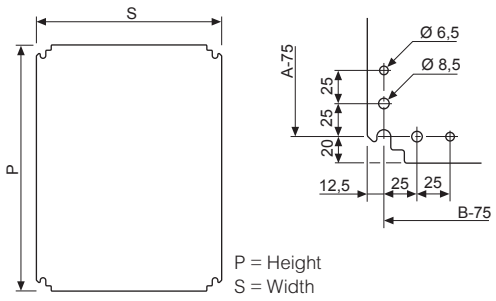


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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

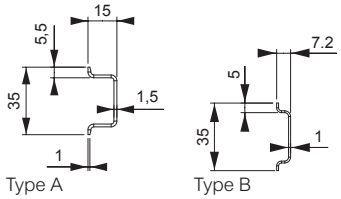
Mounting plates for wall-mounting enclosures

Bakelite and polyester mounting plate

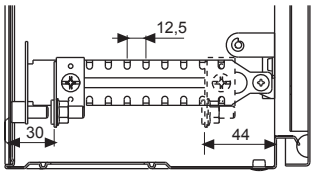


P = Height
S = Width

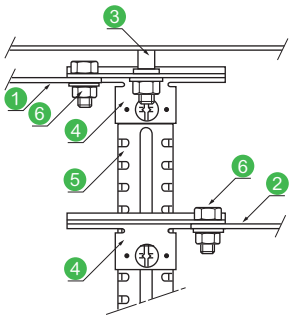
DIN rail chassis



Step slides for mounting plate



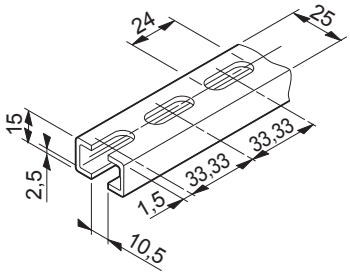
Step slides for 2 mounting plates in one enclosure



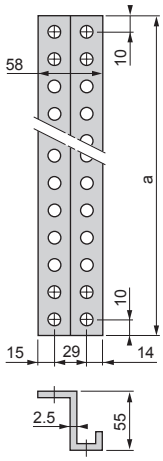
1. Left plate
2. Right plate
3. Central backstud
4. **NSYCRNGSDR** bracket (includes fixings)
5. **NSYSDRSDCR** slide bracket
6. M8 x 20 mm screw

Vertical rails for wall-mounting enclosures

Slides and brackets



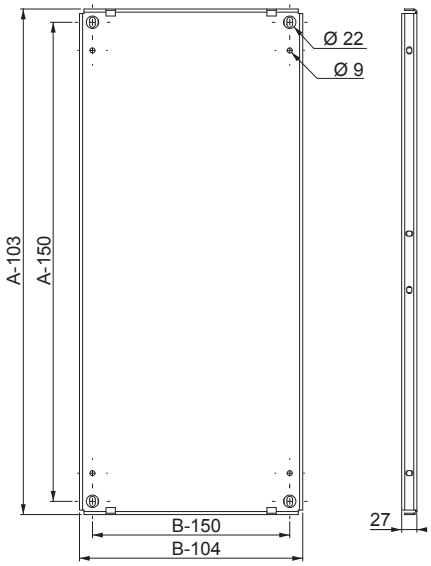
Uprights



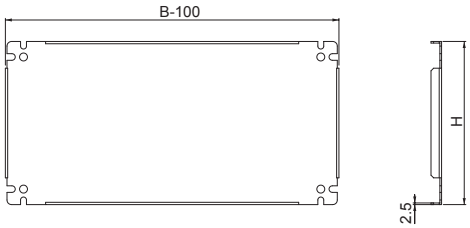
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Mounting plates for floor-standing enclosures

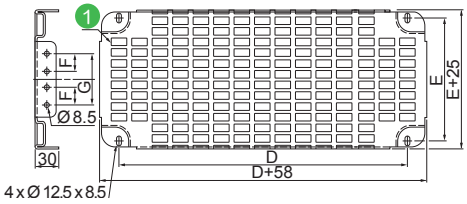
Plain mounting plate



Partial mounting plate



Perforated mounting plate Telequick

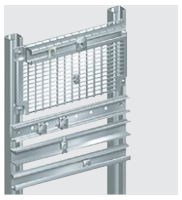


1 Cut-outs 11 x 26 with a pitch of 15 x 30.

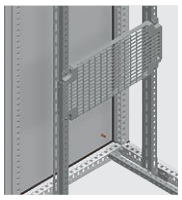
Examples of perforated mounting plate installation



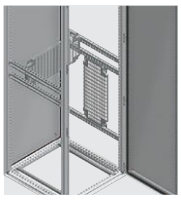
- Perforated plate mounted on structure.



- Perforated plate mounted on technical vertical uprights.

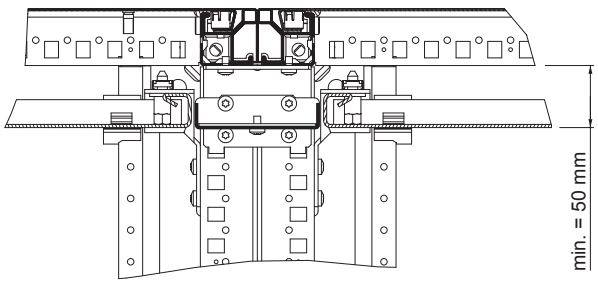


- Perforated plate mounted on standard vertical uprights.

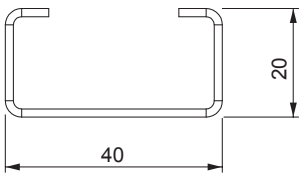


- Perforated plate mounted on cross rails.

Intermediate mounting plate



Reinforcement for mounting plate

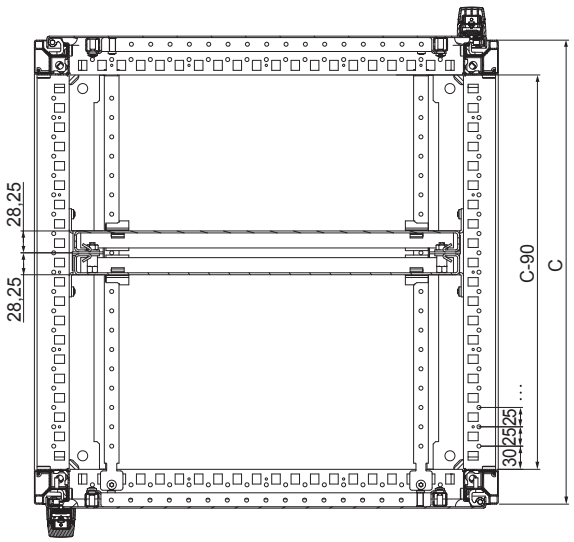


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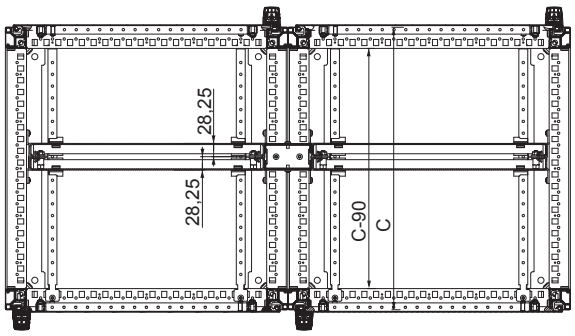
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Mounting plate brackets for floor-standing enclosures Dimensions

Brackets for fixing mounting plates in back-to-back position



Brackets for fixing intermediate mounting plates in back-to-back position



Mounting plates for floor-standing enclosures Dimensions

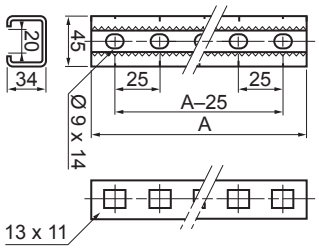
Examples of combination

Length of joined Spacial SF enclosures (mm)	Example of Spacial SF enclosure combination width (mm) (B)	Example of combining mounting plates by width (mm)	Useful length (mm)
1200	1200	600 + 800	1192
1400	600 + 800	600 + 1000	1392
1600	2 x 800	800 + 1000	1592
1800	3 x 600	800 + 1200	1792
2000	2 x 1000	1000 + 1200	1992
2200	600 + 2 x 800	1200 + 1200	2192
2400	3 x 800	1600 + 1000	2392
2400	3 x 800	3 x 600 + 1000	2384
2600	2 x 1000 + 600	1600 + 1200	2592
2600	2 x 1000 + 600	3 x 600 + 1200	2584
2800	2 x 1000 + 800	4 x 800	2784
3000	3 x 1000	3 x 800 + 1000	2984
3200	2 x 1000 + 1200	3 x 800 + 1200	3184
3400	3 x 800 + 1000	800 + 3 x 1000	3384
3600	3 x 1200	4 x 1000	3584
3800	800 + 3 x 1000	600 + 3 x 1200	3784
4000	4 x 1000	800 + 3 x 1200	3984

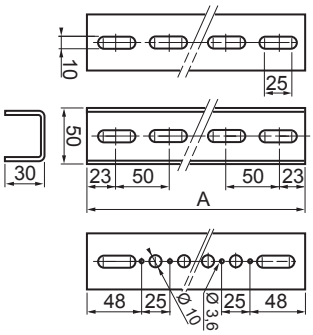
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Uprights for floor-standing enclosures

Technical uprights



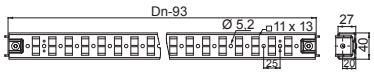
Standard uprights



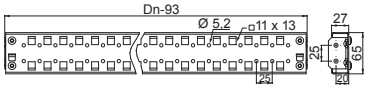
Cross rails for floor-standing enclosures

Universal cross rails

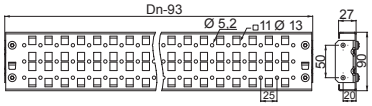
40 mm (1 row)



65 mm (2 rows)

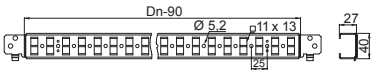


90 mm (3 rows)

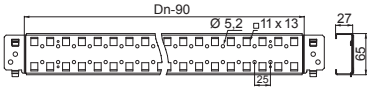


Quick fixing cross rails

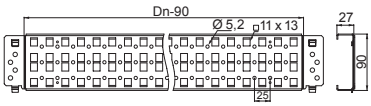
40 mm (1 row)



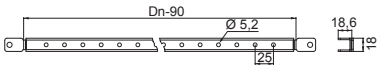
65 mm (2 rows)



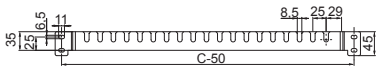
90 mm (3 rows)



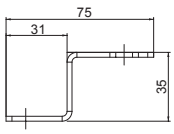
Light cross rails

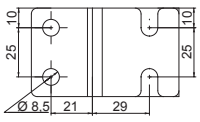


Cross rail for Lütze chassis



Support for Lütze chassis



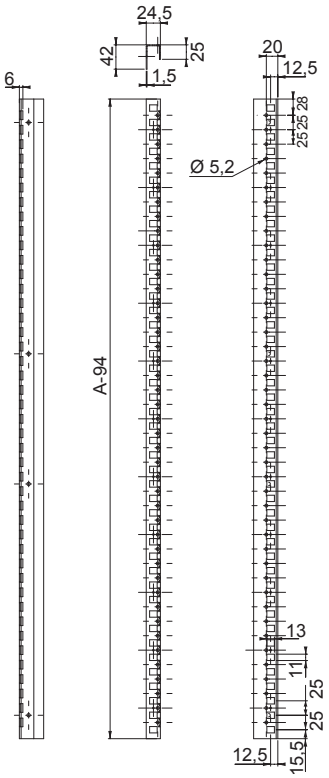


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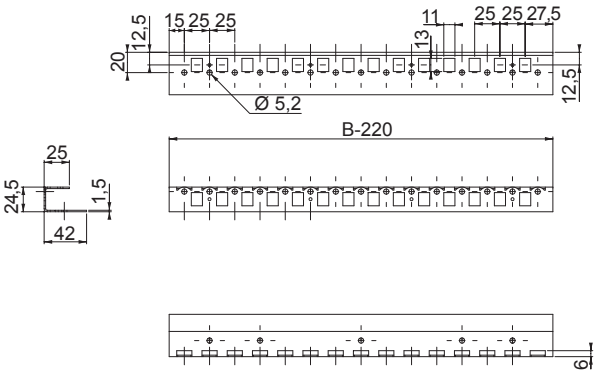
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Profiles for floor-standing enclosures

Vertical adaptation profiles



Horizontal adaptation profiles

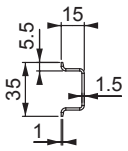


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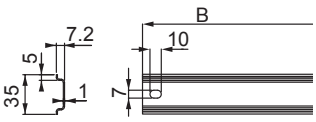
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Symmetric mounting rail for the wall-mounting enclosures

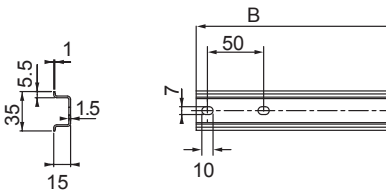
Type A



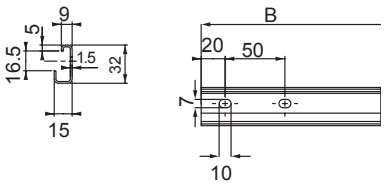
Type B



Symmetric DIN rails for floor-standing enclosures

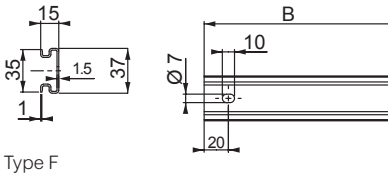


Asymmetric DIN rails for the floor-standing enclosures

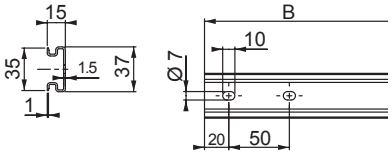


Double-profile DIN rails

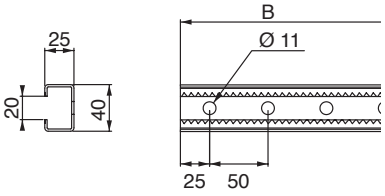
Type W



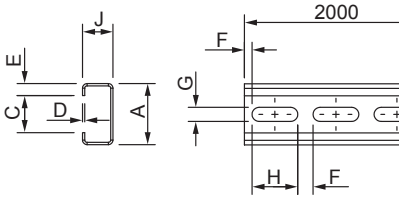
Type F



Serrated C-shaped rail for heavy loads



Symmetric C-shaped rails



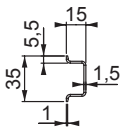
Type	Dimensions (mm)								References
	A	J	C	D	E	F	G	H	
C20 Not perforated	21	11	10	1.5	5.5	-	-	-	**NSYCN20**
C20	21	11	10	1.5	5.5	5	6.2	15	**NSYCNT20**
C40 Not perforated	40	20	24	1.5	8	-	-	-	**NSYCN40**
C40	40	20	24	1.5	8	10	8.5	30	**NSYCNT40**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

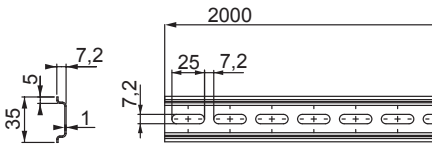
2000 mm rails

Symmetric rails

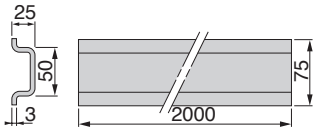
Type A



Type B



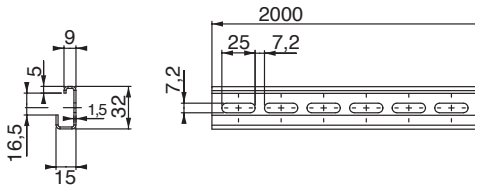
Type C



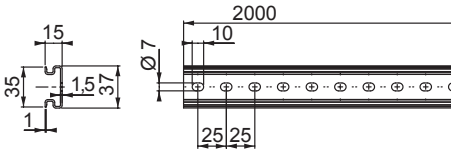
Type D



Asymmetric DIN rails



Double-profile DIN rails



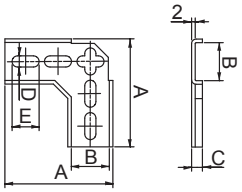
Connectors for symmetric C-shaped rails

Examples



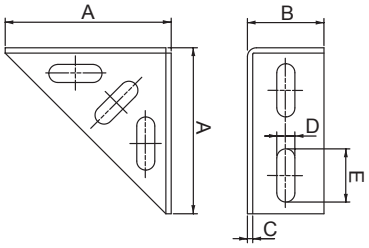
Combinations with connectors for symmetric C-shaped rails

EMA connectors



Dimensions (mm)					References
A	B	C	D	E	
60	21.3	6	6.2	15	**NSYEMA20**
100	40.3	10	8.5	25	**NSYEMA40**

EVA connectors

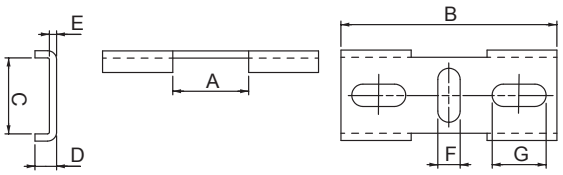


Dimensions (mm)					References
A	B	C	D	E	
43	19	2	6.2	15	**NSYEVA20**
78	36	2.5	8.5	25	**NSYEVA40**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

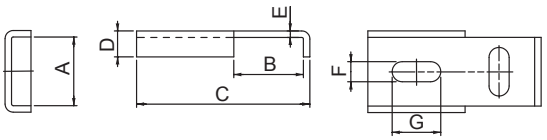
Connectors for symmetric C-shaped rails

UCA connectors



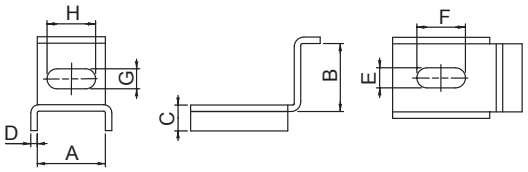
Dimensions (mm)							References
A	B	C	D	E	F	G	
21.3	60	21.3	6	2	6.2	15	**NSYUCA22**
40.3	116	40.3	10	2.5	8.5	25	**NSYUCA44**

UTA connectors



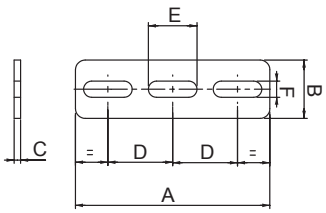
Dimensions (mm)							References
A	B	C	D	E	F	G	
21.3	21.5	53.5	8	2	6.2	15	**NSYUTA22**
21.3	40.5	72.5	8	2	6.2	15	**NSYUTA42**
40.3	40.5	81	10	2.5	8.5	25	**NSYUTA44**

ECA connectors



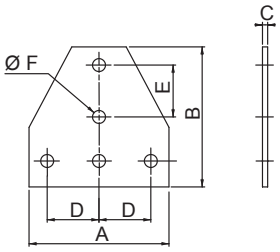
Dimensions (mm)								References
A	B	C	D	E	F	G	H	
21.3	21.5	8	2	6.2	15	6.2	15	**NSYECA22**
21.3	40.5	8	2	6.2	15	6.2	13	**NSYECA42**
40.3	40.5	10	2.5	8.5	25	8.5	25	**NSYECA44**

UR connectors



Dimensions (mm)						References
A	B	C	D	E	F	
60	18	2	20	15	5	**NSYUR20**
130	36	3	40	30	10	**NSYUR40**
130	55	3	40	30	10	**NSYUR60**

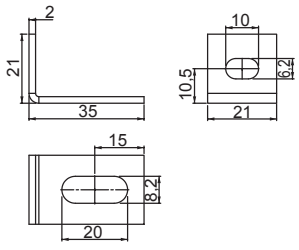
UT connectors



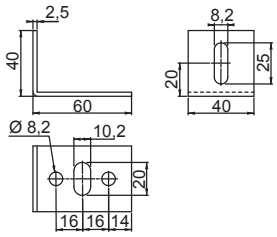
Dimensions (mm)						References
A	B	C	D	E	F	
54	54	2	20	20	5	**NSYUT20**
60	80	2	20	25	8	**NSYUT40**
80	110	2	20	29	10	**NSYUT60**

EN connectors

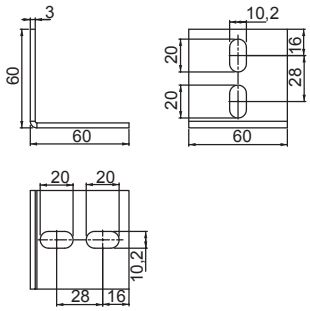
NSYEN20



NSYEN40



NSYEN60

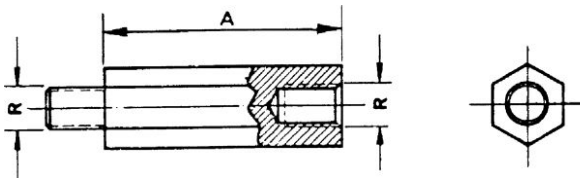


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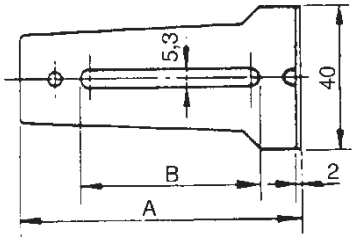
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

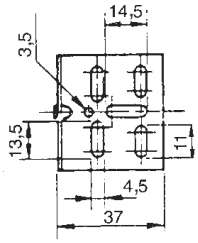
Mounting Spacers

Hexagonal spacers



ETU modular spacers

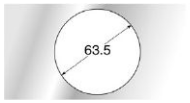


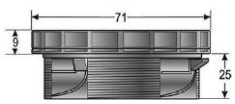


Dimensions (mm)		Combination of spacers
Minimum height	Maximum height	References
53	53	**NSYETU48** + **NSYETU48**
63	63	**NSYETU48** + **NSYETU58**
85	85	**NSYETU48** + **NSYETU79**
124	124	**NSYETU48** + **NSYETU118**
73	73	**NSYETU58** + **NSYETU58**
94	94	**NSYETU58** + **NSYETU79**
134	134	**NSYETU58** + **NSYETU118**
84	84	**NSYETU79** + **NSYETU79**
124	124	**NSYETU79** + **NSYETU118**
164	164	**NSYETU118** + **NSYETU118**

Cable management Cable entries

Multi-C



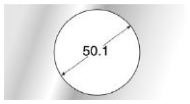


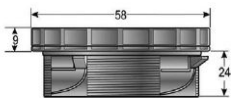


NSYTSAM504SE



NSYTSAM638SE







NSYTSAM508SE



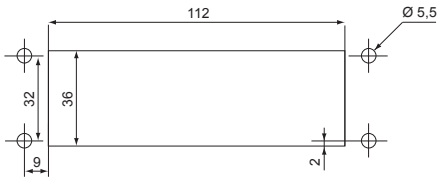
NSYTSAM6313SE

Position of the holes
on the circular cable entries
with diameters 50 and 63 mm

10

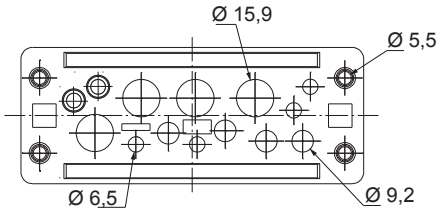
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Multi-R

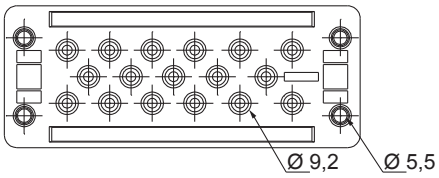


Diagrams of dimensions and positions of the holes on a rectangular cable entry

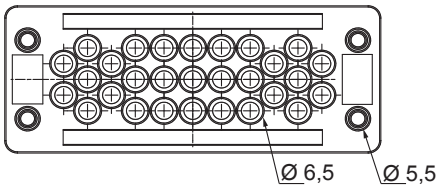
NSYTSA2414SE



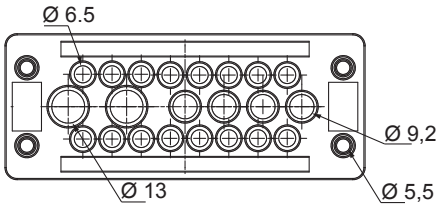
NSYTSA2417SE



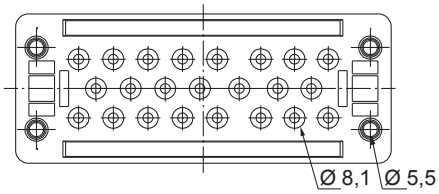
NSYTSA2429SE



NSYTSA2422SE

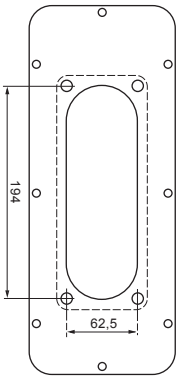


NSYTSA2423SE

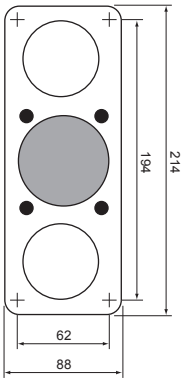


Multi-T

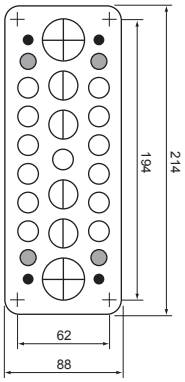
NSYAECPFLBP



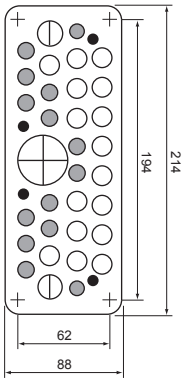
NSYAECPFLT7



NSYAECPFLT25



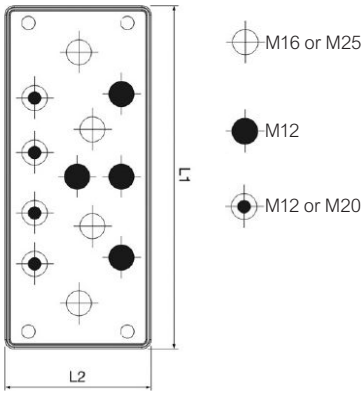
NSYAECPFLT35



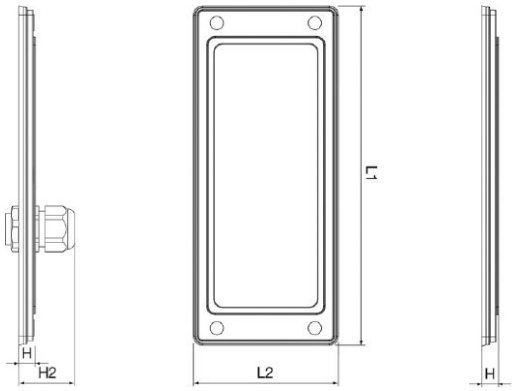
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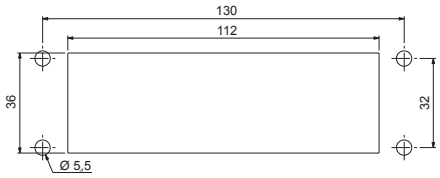
Multi-H



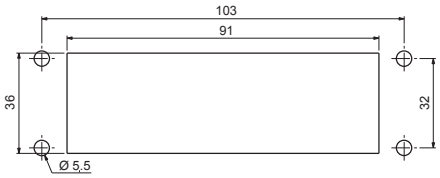
Multi-F



Multi-CR

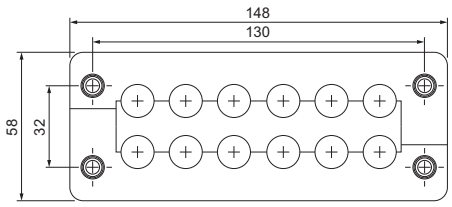


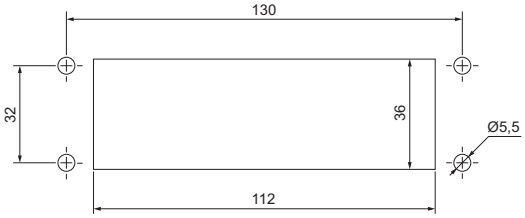
Cut-out for reference **NSYDCE24●●●**



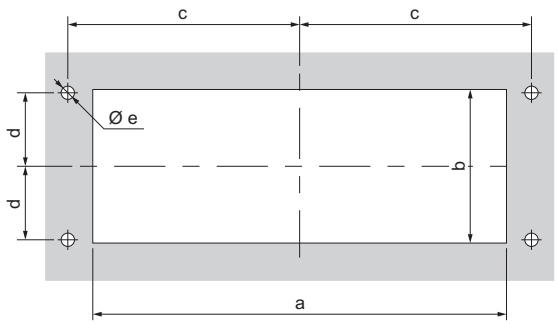
Cut-out for reference **NSYDCE16●●●**

Multi-CS





Multi-CF

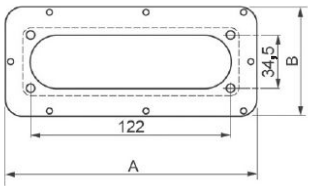


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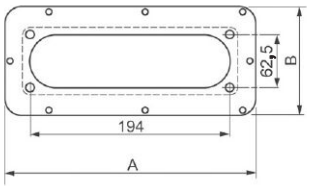
Steel adapter plate for FL13 and FL21 membranes

FL13



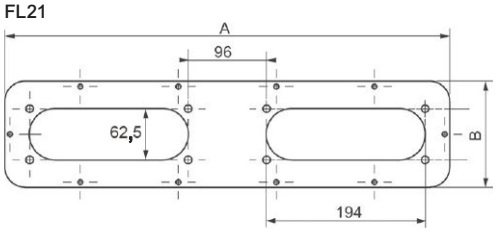
NSYTLBFL

FL21



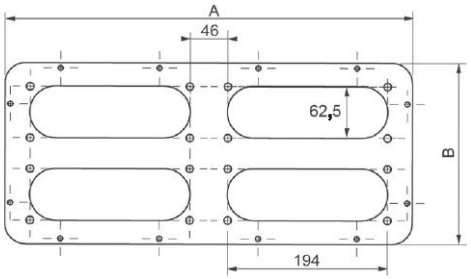
NSYTLCFL
NSYTLDFL
NSYTLEFL
NSYTLFFL
NSYTLGFL

FL21



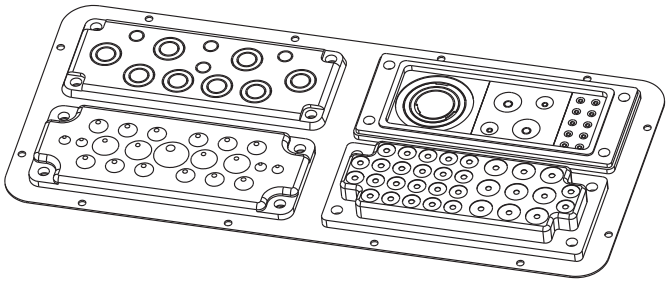
NSYTLF2FL
NSYTLG2FL

FL21



NSYTLG4FL

Application example



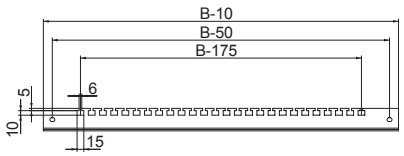
Our membrane can be easily adapted to fit onto all our metallic enclosures using the adapter plate.

10

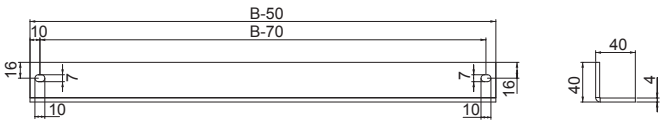
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Cable management Cable holding

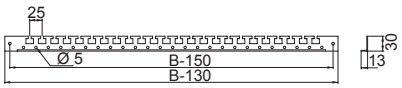
Lower cable-guide cross rail



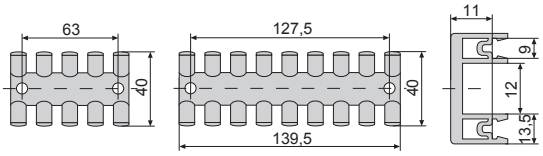
L-rail for fixing cables



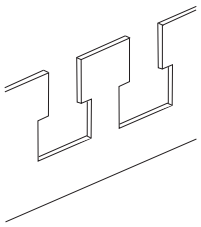
Door cable-guide cross rail



Plastic cable support



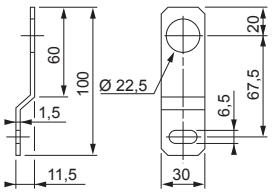
Door cable-guide cross rails for wall-mounting enclosures



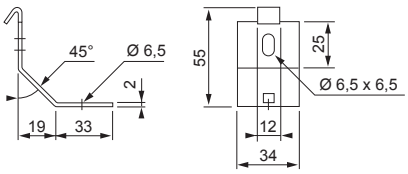
Cable management Ducts

10

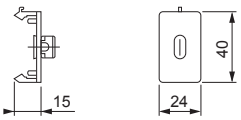
Ø 22 mm cable-duct support



Cable-duct support on technical upright



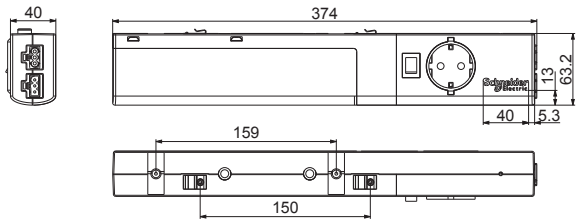
Plastic cable-duct support



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LED lamps

Multi-Fixing LED Lamps



Fixing options



Fixing by sliding brackets

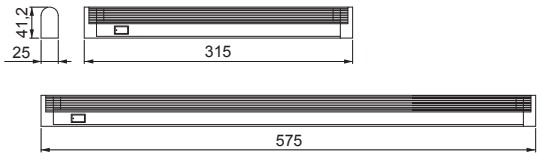


Magnetic fixing.



Fixing to DIN rail.

Cost-effective LED Lamps



Fixing options

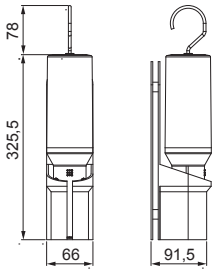


Magnetic fixing



Fixing by adapter brackets

Portable LED lamp



Use options



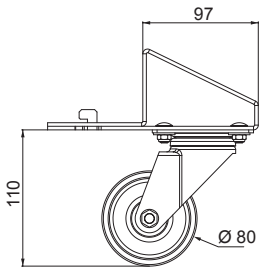
Fixing by adhesive or by screws



Used on workbench

Casters and feet for floor-standing enclosures

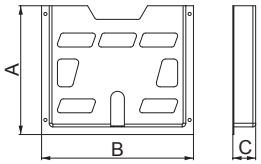
Transport casters Only for Spacial SM, SF and SD



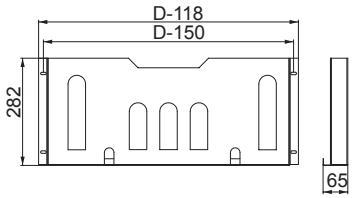
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Switches and pockets

Door accessories Plastic document pocket

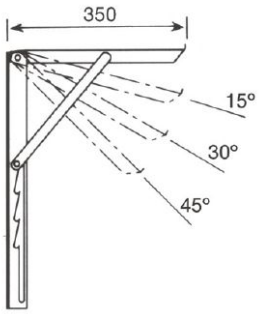


Door accessories Metal document pocket

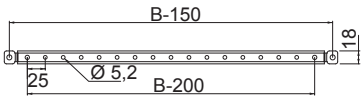


Door accessories for floor-standing enclosures

Folding support tray



Door cross rails



10

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Door accessories Windows

Window for modular equipment

Fig. 1

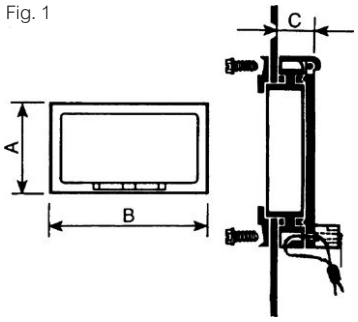
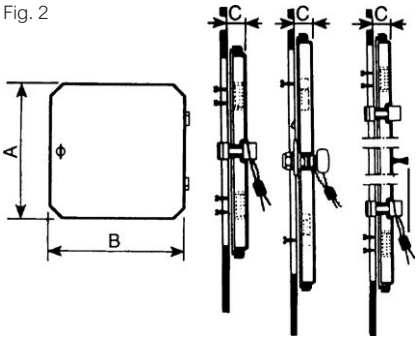


Fig. 2



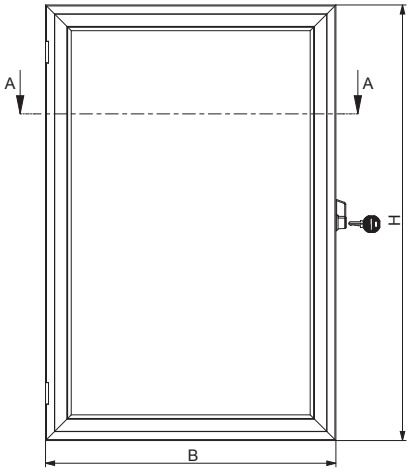
Plastic window for modular equipment

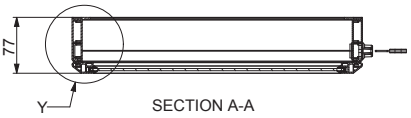
Mounting example

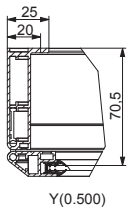


NSYMW10MK + **NSYMW10MR**.

Control window

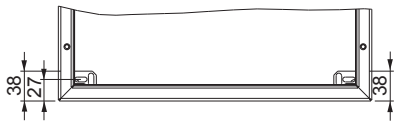


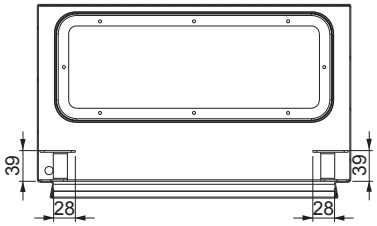




Other accessories Earthing accessories

Fixing lugs for the earthing strip





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Applicative and customised solutions

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The **Spacial S3DB** enclosure is made to be equipped with terminal blocks.

It is ready to be equipped with a ladder mounting plate and a symmetrical DIN rail (to be ordered separately). The body does not have cable gland opening. The Spacial S3DB enclosure is the ideal coupling enclosure with FL21 cut-out.

Spacial S3DB



Vertical position



Horizontal position



Safety

Welding studs on door and body
(earth cables to be ordered separately).



Smart

Example of installation with the ladder mounting plate.

11

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Spacial S3DB

Body
Single-piece body, folded and welded. Front rail with double sheet thickness, guttershaped.
- Depth 150 mm
  The terminal enclosure can be installed vertically (the width becomes the height).
- Wall-mounting directly or by means of fixing lugs (to be ordered separately).
- 4 M8 x 25 shouldered backstuds.
- Body without cable gland openings.

Door
- Easily removable and reversible door, with 20 mm return with double sheet thickness granting excellent rigidity; Equipped with 2 hinges opening to 180°.
- Door opening to more than 180° for maximum accessibility (the door comes to rest on the body of the enclosure in top position).
- Maximum acceptable load on the door: 20 kg/m².
- Wall-mounting enclosure supplied with 3 mm double bar lock as standard.
- M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure.

Dedicated accessories
The terminal enclosure, with a depth of 150 mm, can be equipped:
- With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds. See page 15.
- With a symmetrical rail to be installed on the rails.
- With a 6 mm² earth braid to be placed between the body and the door.
- It can also be equipped with a plain mounting plate, see page 230.

- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP66 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

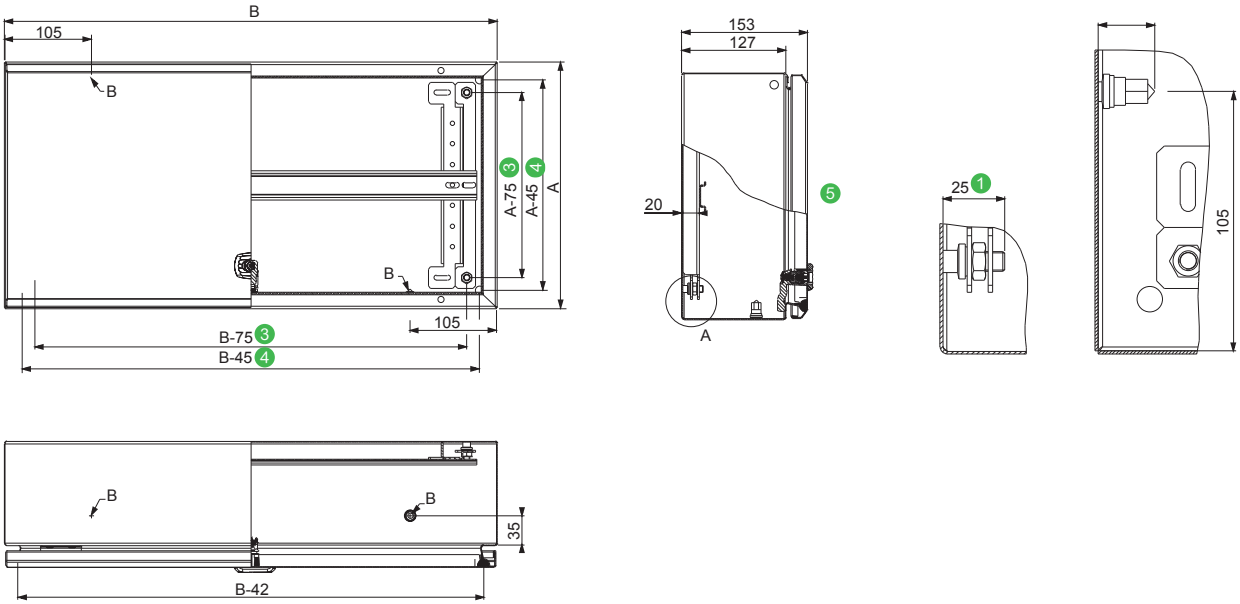
For more details see page 318


NSYS3DB25315

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Spacial S3DB	250	300	150	**NSYS3DB25315**
Spacial S3DB	250	400	150	**NSYS3DB25415**
Spacial S3DB	250	500	150	**NSYS3DB25515**
Spacial S3DB	300	300	150	**NSYS3DB3315**
Spacial S3DB	300	400	150	**NSYS3DB3415**
Spacial S3DB	300	500	150	**NSYS3DB3515**
Spacial S3DB	300	600	150	**NSYS3DB3615**
Spacial S3DB	400	300	150	**NSYS3DB4315**
Spacial S3DB	400	800	150	**NSYS3DB4815**
Spacial S3DB	500	400	150	**NSYS3DB5415**
Spacial S3DB	600	400	150	**NSYS3DB6415**

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Spacial S3DB



A: Enclosure height
B: Enclosure width
C: Enclosure depth

1 With ladder mounting plate installed.
2 M6 x 17.5 mm earthing stud.
3 Stud centre-to-centre distance.
4 Centre-to-centre distance of the holes for direct fixing.
5 Drop-leaf door.

The provided dimensions are with the ladder mounting plate, which is the most commonly used accessory with this enclosure.

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Modular wall-mounting enclosures

The **Spacial S3DM** enclosure for modular switchgear can be equipped with:

- a modular chassis (**NSYDLM•••**) with cut-out front panels for 24 to 234 modules according to the dimensions and references,
- a 6 mm² earth connection placed between the body and the door.

The enclosure can be equipped with accessories from the Spacial standard wall-mounting range.

Spacial S3DM



S3DM enclosure
(standard delivery).



S3DM enclosure equipped
with a DLM modular chassis.



Easily removable and reversible door

- With 20 mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges.
- Three locking points for heights of more than 600 mm.
- Perforated rails on the hinge side of the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm.



Dedicated accessories

- The DLM modular chassis consists of metal cut-out front panels which can clip on with any screws. Rigid structure made from galvanised steel. The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.
- For enclosures with a depth of 150 mm, the chassis can be installed at the front or on the backstuds at the rear. It is possible to adjust its depth using the adjustable supports (**NSYSDCR••** type).
- It can also be equipped with a plain mounting plate, see page 230.

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Modular wall-mounting enclosures

Spacial S3DM

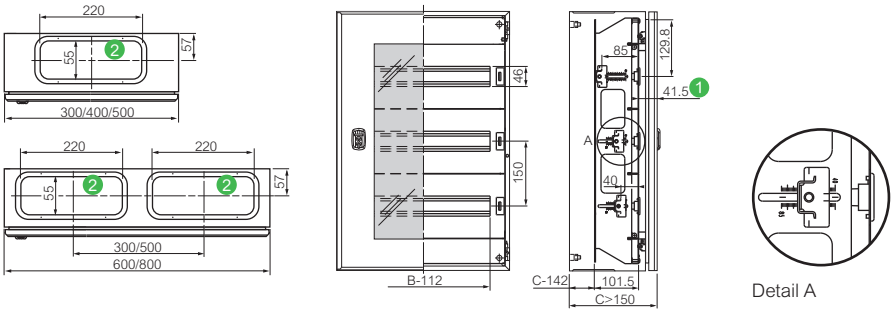
- Single-piece body, folded and welded.
  Front rail with double sheet thickness, gutter-shaped.
- 4 M8 x 25 mm shouldered backstuds for installing chassis and step slides, leaving a space of 10 mm behind them.
- Cable gland plate (245 x 80) at the top and bottom of the enclosure, guaranteeing the maximum access surface (also available in plain door).
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP66 according to IEC 60529
- Mechanical protection rating: IK08 according to IEC 62262

Supply:
Wall-mounting enclosure supplied with 3 mm double bar lock as standard



NSYS3DM7515T

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Spacial S3DM	400	300	150	**NSYS3DM4315T**
Spacial S3DM	500	400	150	**NSYS3DM5415T**
Spacial S3DM	600	400	150	**NSYS3DM6415T**
Spacial S3DM	600	600	150	**NSYS3DM6615T**
Spacial S3DM	700	500	150	**NSYS3DM7515T**
Spacial S3DM	800	600	150	**NSYS3DM8615T**
Spacial S3DM	1000	600	150	**NSYS3DM10615T**
Spacial S3DM	1000	800	150	**NSYS3DM10815T**



Front panel cut-out (see table below)

1 Front face of the modular chassis / front face of the door
2 Cable gland plates at the top and bottom of the enclosure.

Number of modules per chassis** (every 18 mm)

1 module = 2 steps = 18 mm



Chassis reference	NSYDLM24	NSYDLM48	NSYDLM48P	NSYDLM84P	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n. of modules	24	48	48	84	66	88	84	112	168	234

Note:
References **NSYDLM48**, **NSYDLM48P** and **NSYDLM84P**, the central row cannot receive modules at the height of the lock (check our technical instructions) when installed at the front of the enclosure. In this case, 1 module is sealed up. ** DLM modular chassis. The provided dimensions are with the modular chassis, which is the most commonly used accessory with this enclosure.

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Modular wall-mounting enclosures

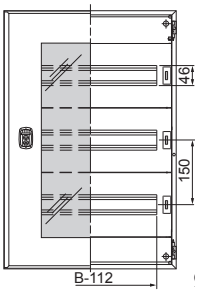
DLM modular chassis

- The chassis consists of metal cut-out front panels, which can be clipped on without screws.
- The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.
- Material: Rigid galvanised steel structure
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

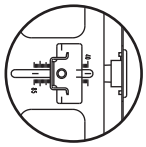
Note:
1 module = 2 steps = 18 mm


NSYDLM24

Characteristics	Number of modules	Height (mm)	Width (mm)	References
DLM modular chassis	24	400	300	**NSYDLM24**
DLM modular chassis	48	500	400	**NSYDLM48**
DLM modular chassis	48	600	400	**NSYDLM48P**
DLM modular chassis	84	600	600	**NSYDLM84P**
DLM modular chassis	66	700	500	**NSYDLM66**
DLM modular chassis	88	700	500	**NSYDLM88**
DLM modular chassis	84	800	600	**NSYDLM84**
DLM modular chassis	112	800	600	**NSYDLM112**
DLM modular chassis	168	1000	600	**NSYDLM168**
DLM modular chassis	234	1000	800	**NSYDLM240**



Front panel cut-out


Detail A
Rail adjustment: 45 mm

Plain front panel

- Metal front panels to be clipped on without screws.
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Supply:
2 plain front panel and fixings


NSYCTL300DLM

Characteristics	Width (mm)	References
Plain front panel	300	**NSYCTL300DLM**
Plain front panel	400	**NSYCTL400DLM**
Plain front panel	500	**NSYCTL500DLM**
Plain front panel	600	**NSYCTL600DLM**
Plain front panel	800	**NSYCTL800DLM**

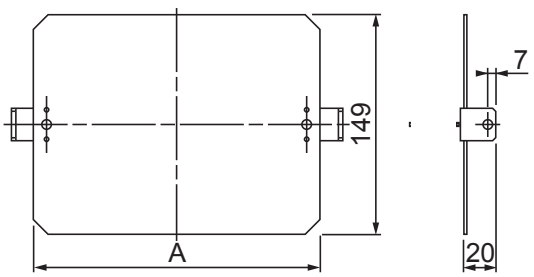
Plain mounting plate

- Mounting plate for fixing non modular devices.
- Material: Galvanised steel
- Thickness: 20/10e mm

Supply:
2 plain chassis and fixings


NSYPMP300DLM

Characteristics	Width (mm)	References
Plain mounting plate	300	**NSYPMP300DLM**
Plain mounting plate	400	**NSYPMP400DLM**
Plain mounting plate	500	**NSYPMP500DLM**
Plain mounting plate	600	**NSYPMP600DLM**
Plain mounting plate	800	**NSYPMP800DLM**



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Modular wall-mounting enclosures

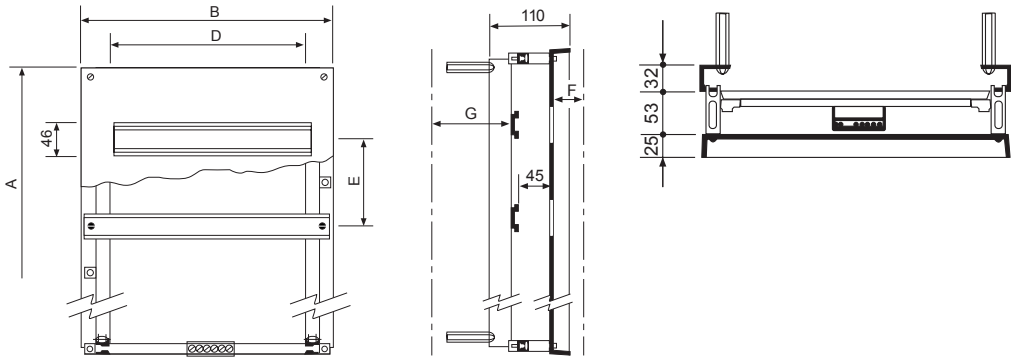
DL modular chassis

- Dinimel chassis designed for devices with heights of 53 and 68 mm, which can be coupled directly to the enclosure plate-support bolts.
- Distance between device rail and protective cover plate: 45 mm.
- Material: Steel
- Finish: Metal protective cover plate
- Colour: RAL 7035 grey

Note:
For Spacial S3D please consult us
Depth 150 mm: For coupling to enclosures with a depth of 200 mm, the stand-offs (ref. **NSYEX608**) are to be ordered separately (4 per chassis).


NSYDLCR24

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
DL modular chassis	300	250	150	**NSYDLCR18**
DL modular chassis	400	300	150	**NSYDLCR24**
DL modular chassis	400	300	150	**NSYDLCR36**
DL modular chassis	500	400	150	**NSYDLCR48**
DL modular chassis	600	400	150/200	**NSYDLCR64**
DL modular chassis	600	500	150/200	**NSYDLCR88**
DL modular chassis	700	500	200	**NSYDLCR110**
DL modular chassis	800	600	200	**NSYDLCR135**



Dimension F: Distance from the protective cover plate to the inside of the door.
Dimension G: Distance from the device-support rail to the rear of the enclosure.

For coupling to the enclosures with normal or transparent door	Dimensions (mm)								
References	A	B	D	E	F	G	No. of 18 mm modules	No. of rows	Approx. weight (kg)
NSYDLCR18	255	205	162	120	41	51	18	2	1.2
NSYDLCR24	355	255	216	160	41	51	24	2	1.7
NSYDLCR36	355	255	216	110	41	51	36	3	1.7
NSYDLCR48	455	355	288	130	41	51	48	3	2.4
NSYDLCR64	555	355	288	130	41	51/101	64	4	3.3
NSYDLCR88	555	455	396	130	41	51/101	88	4	4.5
NSYDLCR110	655	455	396	125	41	101	110	5	5.1
NSYDLCR135	755	555	486	140	41	101	135	5	7.5

Note: For enclosures with transparent door, the F dimension is reduced by 4 mm

Blanking plate

- Blanking plate for full or partial covering of the circuit-breaker windows; it can easily be cut to the required size.
- Material: Plastic

NSYATP72M

Characteristics	Number of modules	Colour	Length (mm)	References
Blanking plate	4	RAL 7032	72	**NSYATP72G**
Blanking plate	4	RAL 7035 grey	72	**NSYATP72M**
Blanking plate	6	RAL 7035 grey	108	**NSYATP6DTM**
Blanking plate	24	RAL 7035 grey	432	**NSYATP24DTM**
Blanking plate	-	RAL 7035 grey	1100	**NSYATPUND**

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Accessories for modular floor-standing enclosures

The modular distribution system is made up of a range of accessories prepared for forming electric panels with high distribution capacity.

The accessories are installed on a chassis mounted at the front of the enclosure, such as:

- cover plates for enclosures with widths of 600 and 800 mm, solid or cut-out in screwed-on or hinged versions. They cover 24 or 36 modules per row, depending on the width of the enclosure,
- material support rails, fixed or with adjustable depth,
- mounting plate supports for coupling non modular equipment,
- supports for fixing cable-distribution cable ducts.

Sets of accessories made up of material-supporting frames with chassis and cover plates are offered for the construction of double or busbar modular chassis. All the accessories of the individual chassis system can also be combined in the same way with the double chassis or with the chassis with busbar area.





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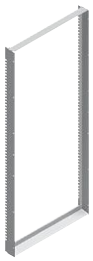
Accessories for modular floor-standing enclosures

Single-chassis coupling set

- Chassis made up of vertical uprights and horizontal crossbars:
- Spacial SF: They are screwed to the front frame of the enclosure.
- Spacial SM: They are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 248.
- Easy access to the inside for component installation.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Note:
Installation example: See page 325.

Supply:
2 vertical uprights, 2 horizontal crossbars and fixing elements


NSYCSH126

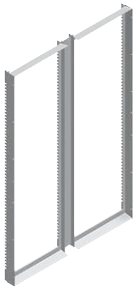
Characteristics	Maximum no. of 18 mm modules	Height (mm)	Width (mm)	References
Single-chassis coupling set	144	1200	600	**NSYCSH126**
Single-chassis coupling set	216	1200	800	**NSYCSH128**
Single-chassis coupling set	192	1400	600	**NSYCSH146**
Single-chassis coupling set	288	1400	800	**NSYCSH148**
Single-chassis coupling set	216	1600	600	**NSYCSH166**
Single-chassis coupling set	324	1600	800	**NSYCSH168**
Single-chassis coupling set	240	1800	600	**NSYCSH186**
Single-chassis coupling set	360	1800	800	**NSYCSH188**
Single-chassis coupling set	288	2000	600	**NSYCSH206**
Single-chassis coupling set	432	2000	800	**NSYCSH208**

Double-chassis coupling set

- Mounting on enclosures with widths of 1200 and 1600 mm.
- Spacial SF: The double door enclosure adaptation kit is required for enclosure widths of 1200 and 1600 mm, see page 240.
- Spacial SM: They are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 248. For enclosures with a width of 1200 mm the top/bottom adjustment rails are necessary.
- Set made up of two modular chassis with an intermediate central upright.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Note:
Installation example: See page 325.

Supply:
2 single-chassis coupling sets, 1 intermediate central upright and fixing elements


NSYDCSH1412

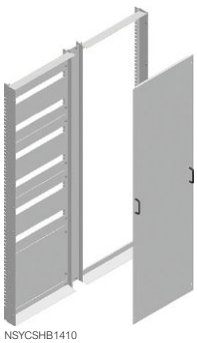
Characteristics	Maximum no. of 18 mm modules	Set made up of columns with a width (mm)	Height (mm)	Width (mm)	References
Double-chassis coupling set	384	600 + 600	1200	800	**NSYDCSH1412**
Double-chassis coupling set	432	600 + 600	1400	800	**NSYDCSH1612**
Double-chassis coupling set	480	600 + 600	1600	800	**NSYDCSH1812**
Double-chassis coupling set	720	800 + 800	1800	600	**NSYDCSH1816**
Double-chassis coupling set	576	600 + 600	2000	600	**NSYDCSH2012**
Double-chassis coupling set	864	800 + 800	2000	800	**NSYDCSH2016**

Chassis-coupling set with zone for busbars

- Set for mounting on enclosures with widths of 1000 and 1200 mm.
- Spacial SF: They are screwed to the front frame enclosure.
- Spacial SM: They are screwed to the front frame of the enclosure by means of the vertical and horizontal adaptation profiles, see page 248.
- Assembly made up of a modular chassis with an intermediate central upright and a blanking cover plate for busbars (width 300 mm).
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Note:
Installation example: See page 325.

Supply:
1 single-chassis coupling set, 1 intermediate central upright, 1 busbar blanking cover plate and fixing elements

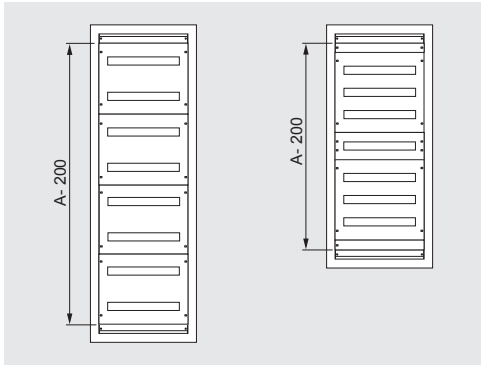

NSYCSHB1410

Characteristics	Maximum no. of 18 mm modules	Set made up of columns with a width (mm)	Height (mm)	Width (mm)	References
Chassis-coupling set with zone for busbars	192	600 + 400	1400	1000	**NSYCSHB1410**
Chassis-coupling set with zone for busbars	288	800 + 400	1400	1200	**NSYCSHB1412**
Chassis-coupling set with zone for busbars	216	600 + 400	1600	1000	**NSYCSHB1610**
Chassis-coupling set with zone for busbars	324	800 + 400	1600	1200	**NSYCSHB1612**
Chassis-coupling set with zone for busbars	240	600 + 400	1800	1000	**NSYCSHB1810**
Chassis-coupling set with zone for busbars	360	800 + 400	1800	1200	**NSYCSHB1812**
Chassis-coupling set with zone for busbars	288	600 + 400	2000	1000	**NSYCSHB2010**
Chassis-coupling set with zone for busbars	432	800 + 400	2000	1200	**NSYCSHB2012**

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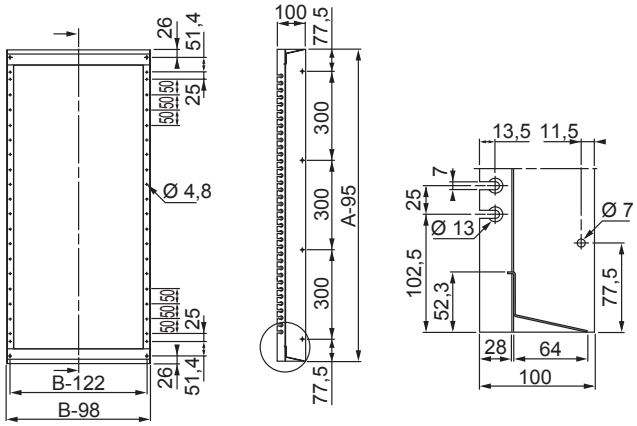
Accessories for modular floor-standing enclosures

Combination of cut-out, screwed-on cover plates and single-chassis coupling set

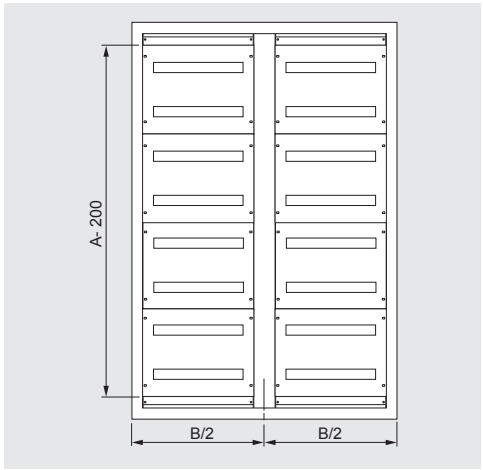


Dimensions (mm)		No. of 18 mm modules	1 single-chassis coupling set	5 screwed-on cut-out cover plates	2 adjustment cover plates
H (A)	W (B)		References	References	References
1800	600	240	1 x **NSYCSH186**	5 x **NSYMUC306**	1 x **NSYADC16**

Single-chassis coupling set

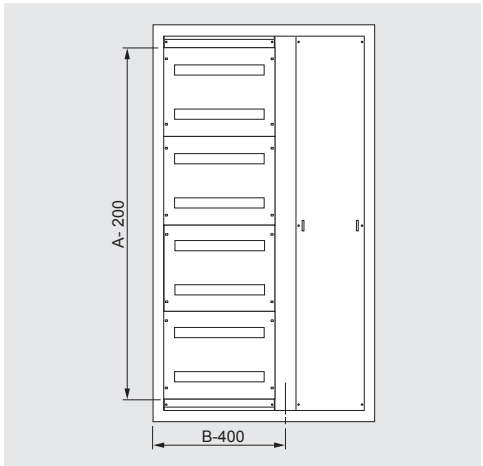


Combination of cut-out, screwed-on cover plates and double-chassis coupling set



Dimensions (mm)			No. of 18 mm modules	1 double-chassis coupling set	12 screwed-on cut-out 300 mm cover plates	Double door enclosure adaptation kit
H (A)	W (B)	D (C)		References	References	References
2000	1200	500	576	1 x **NSYDCSH2012**	12 x **NSYMUC306**	**NSYSMP2D5**
2000	1600	500	864	1 x **NSYDCSH2016**	12 x **NSYMUC308**	-

Combination of cut-out, screwed-on cover plates and chassis-coupling set with busbar zone



Dimensions (mm)		No. of 18 mm modules	1 single-chassis coupling set	5 screwed-on cut-out cover plates	2 adjustment cover plates
H (A)	W (B)		References	References	References
1800	1000	240	1 x **NSYCSHB1810**	5 x **NSYMUC306**	1 x **NSYADC16**
1800	1200	360	1 x **NSYCSHB1812**	5 x **NSYMUC308**	1 x **NSYADC18**

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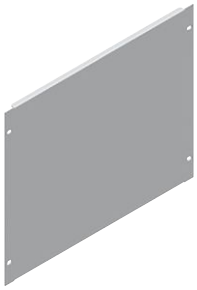
Accessories for modular floor-standing enclosures

Plain cover plates

- Metal cover plates for protecting control devices.
- The cut-outs in non modular control devices is at user's request.
- Suitable by modules of 150 or 200 mm.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Versions:
- screwed-on plain cover plate,
- hinged plain cover plate.
- 120° opening with flat hinge.

Supply:
1 plain cover plate and fixing elements


NSYMPC156

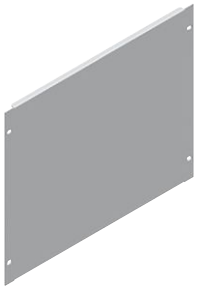
Characteristics	Height (mm)	Width (mm)	References
Screwed-on plain cover plate	150	600	**NSYMPC156**
Screwed-on plain cover plate	150	800	**NSYMPC158**
Screwed-on plain cover plate	200	600	**NSYMPC206**
Screwed-on plain cover plate	200	800	**NSYMPC208**
Screwed-on plain cover plate	300	600	**NSYMPC306**
Screwed-on plain cover plate	300	800	**NSYMPC308**
Screwed-on plain cover plate	400	600	**NSYMPC406**
Screwed-on plain cover plate	400	800	**NSYMPC408**
Screwed-on plain cover plate	450	600	**NSYMPC456**
Screwed-on plain cover plate	450	800	**NSYMPC458**
Screwed-on plain cover plate	600	600	**NSYMPC606**
Screwed-on plain cover plate	600	800	**NSYMPC608**

Plain cover plates

- Metal cover plates for protecting control devices.
- The cut-outs in non modular control devices is at user's request.
- Suitable by modules of 150 or 200 mm.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

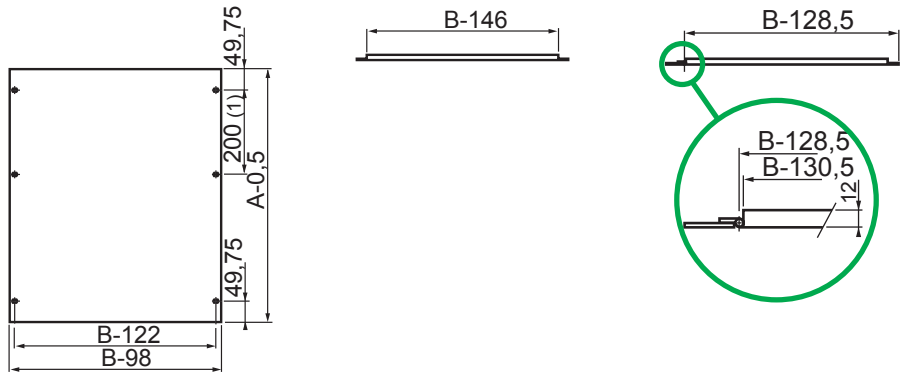
Versions:
- screwed-on plain cover plate,
- hinged plain cover plate.
- 120° opening with flat hinge.

Supply:
1 plain cover plate and fixing elements


NSYMPCH156

Characteristics	Height (mm)	Width (mm)	References
Hinged plain cover plate	150	600	**NSYMPCH156**
Hinged plain cover plate	150	800	**NSYMPCH158**
Hinged plain cover plate	200	600	**NSYMPCH206**
Hinged plain cover plate	200	800	**NSYMPCH208**
Hinged plain cover plate	300	600	**NSYMPCH306**
Hinged plain cover plate	300	800	**NSYMPCH308**
Hinged plain cover plate	400	600	**NSYMPCH406**
Hinged plain cover plate	400	800	**NSYMPCH408**
Hinged plain cover plate	450	600	**NSYMPCH456**
Hinged plain cover plate	450	800	**NSYMPCH458**
Hinged plain cover plate	600	600	**NSYMPCH606**
Hinged plain cover plate	600	800	**NSYMPCH608**

Plain cover plates



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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Accessories for modular floor-standing enclosures

Screwed-on cut-out cover plate

- Cut-out metal cover plates for modular switchgear (1 module = 18 mm).
- Suitable by modules of 150 or 200 mm.
- cover plates for 600 mm width enclosures: 24 modules per row,
- cover plates for 800 mm width enclosures: 36 modules per row.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Versions:
- screwed-on cut-out cover plate,
- hinged cut-out cover plate. 120° opening with flat hinge.

Supply:
1 cut-out cover plate and fixing elements


NSYMUC156

Characteristics	Maximum no. of 18 mm modules	No. of cut-outs	Height (mm)	Width (mm)	References
Screwed-on cut-out cover plate	24	1	150	600	**NSYMUC156**
Screwed-on cut-out cover plate	36	1	150	800	**NSYMUC158**
Screwed-on cut-out cover plate	24	1	200	600	**NSYMUC206**
Screwed-on cut-out cover plate	36	1	200	800	**NSYMUC208**
Screwed-on cut-out cover plate	48	2	300	600	**NSYMUC306**
Screwed-on cut-out cover plate	72	2	300	800	**NSYMUC308**
Screwed-on cut-out cover plate	48	2	400	600	**NSYMUC406**
Screwed-on cut-out cover plate	72	2	400	800	**NSYMUC408**
Screwed-on cut-out cover plate	72	3	450	600	**NSYMUC456**
Screwed-on cut-out cover plate	108	3	450	800	**NSYMUC458**
Screwed-on cut-out cover plate	72	3	600	600	**NSYMUC606**
Screwed-on cut-out cover plate	108	3	600	800	**NSYMUC608**

Hinged cut-out cover plate

- Cut-out metal cover plates for modular switchgear (1 module = 18 mm).
- Suitable by modules of 150 or 200 mm.
- cover plates for 600 mm width enclosures: 24 modules per row,
- cover plates for 800 mm width enclosures: 36 modules per row.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

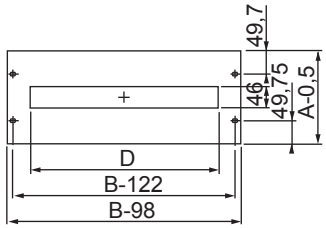
Versions:
- screwed-on cut-out cover plate,
- hinged cut-out cover plate. 120° opening with flat hinge.

Supply:
1 cut-out cover plate and fixing elements

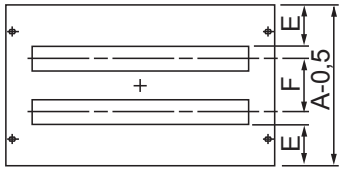

NSYMUCH156

Characteristics	Maximum no. of 18 mm modules	No. of cut-outs	Height (mm)	Width (mm)	References
Hinged cut-out cover plate	24	1	150	600	**NSYMUCH156**
Hinged cut-out cover plate	36	1	150	800	**NSYMUCH158**
Hinged cut-out cover plate	24	1	200	600	**NSYMUCH206**
Hinged cut-out cover plate	36	1	200	800	**NSYMUCH208**
Hinged cut-out cover plate	48	2	300	600	**NSYMUCH306**
Hinged cut-out cover plate	72	2	300	800	**NSYMUCH308**
Hinged cut-out cover plate	48	2	400	600	**NSYMUCH406**
Hinged cut-out cover plate	72	2	400	800	**NSYMUCH408**
Hinged cut-out cover plate	72	3	450	600	**NSYMUCH456**
Hinged cut-out cover plate	108	3	450	800	**NSYMUCH458**
Hinged cut-out cover plate	72	3	600	600	**NSYMUCH606**
Hinged cut-out cover plate	108	3	600	800	**NSYMUCH608**

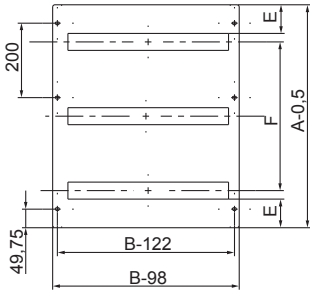
Cut-out cover plates



A = 150 and 200 mm

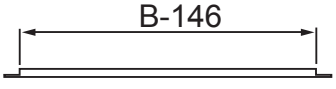


A = 300 and 400 mm

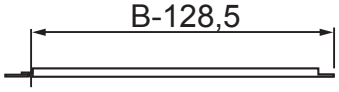


Cut-out at 200 mm when A = 600

Dimensions (mm)		
D	E	F
432	51.75	150
642	51.75	150
432	76.75	200
642	76.75	200
432	51.75	150
642	51.75	150
432	76.75	200
642	76.75	200



Screwed-on cover plate



Hinged cover plate

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Accessories for modular floor-standing enclosures

Adjustment cover plates

- Metal adjustment cover plates designed to complete the front of the modular chassis according to the combinations made by modules of 150 or 200 mm.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Supply:
2 adjustment cover plates and fixing elements


NSYADC16

Characteristics	Height (mm)	Width (mm)	References
Adjustment cover plates	50	600	**NSYADC16**
Adjustment cover plates	50	800	**NSYADC18**

Set of fixed rail with supports

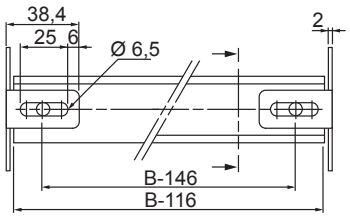
- Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and fixed mounting supports, for the installation of modular devices or not.
- Material: Zinc-coated steel
- Fixing: Mounting by screws directly on the uprights of the chassis-coupling set

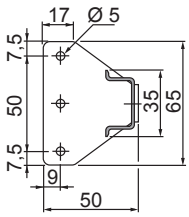
Maximum number of 18 mm modules:
- enclosure width 600 mm: 24 modules,
- enclosure width 800 mm: 36 modules.

Supply:
1 DIN rail, 2 fixed supports and fixing elements


NSYMFSC60

Characteristics	Width (mm)	References
Set of fixed rail with supports	600	**NSYMFSC60**
Set of fixed rail with supports	800	**NSYMFSC80**





Set of depth-adjustable rail with supports

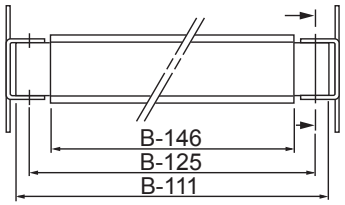
- Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and depth adjustable mounting supports, for the installation of modular devices or not.
- Material: Zinc-coated steel
- Fixing: Mounting by screws directly on the uprights of the modular chassis-coupling set

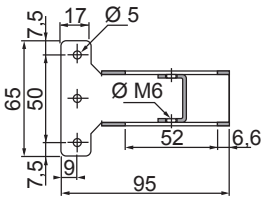
Maximum number of 18 mm modules:
- enclosure width 600 mm: 24 modules,
- enclosure width 800 mm: 36 modules.

Supply:
1 DIN rail, 2 adjustable supports and fixing elements


NSYMFSC60D

Characteristics	Width (mm)	References
Set of depth-adjustable rail with supports	600	**NSYMFSC60D**
Set of depth-adjustable rail with supports	800	**NSYMFSC80D**





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Accessories for modular floor-standing enclosures

Cable duct fixing supports

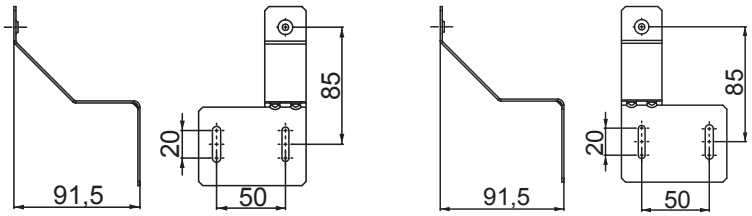
- Supports for fixing cable-distribution gutters in the modular chassis.
- Allows the fixing of gutters in horizontal and vertical position on the same plane to facilitate cable distribution.
- Material: Zinc-coated steel

Fixing: Installation by screws directly on the rail supplied with the fixed or adjustable rail

Supply:
6 supports (3 on the right and 3 on the left) and fixing elements


NSYMCDFIX

Characteristics	References
Cable duct fixing supports	**NSYMCDFIX**



Reinforced plate supports

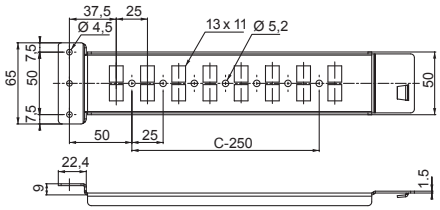
- Supports for fixing the partial mounting plate for small non modular equipment or material-supporting cross rails for heavy equipment. See partial mounting plate, page 236.
- Material: Zinc-coated steel

Fixing: Direct fixing by screws to the vertical uprights of the modular chassis-coupling set, and at the rear directly to the structure (Spacial SF) and on universal or quick fixing cross rails (see page 245) installed vertically in the back of the enclosure (Spacial SM)

Supply:
2 supports and fixing elements


NSYMPS30

Characteristics	No. of cut-outs (Ø 5.2 mm)	Depth (mm)	References
Reinforced plate supports	4	300	**NSYMPS30**
Reinforced plate supports	8	400	**NSYMPS40**
Reinforced plate supports	12	500	**NSYMPS50**
Reinforced plate supports	16	600	**NSYMPS60**
Reinforced plate supports	24	800	**NSYMPS80**



Fixed supports with no rail

Supply:
2 fixed supports and fixing elements.


NSYMFS1

Characteristics	References
Fixed supports with no rail	**NSYMFS1**

Adjustable supports with no rail

Supply:
2 adjustable supports and fixing elements


NSYMFS1D

Characteristics	References
Adjustable supports with no rail	**NSYMFS1D**

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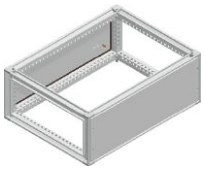
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Accessories for low voltage switchboards

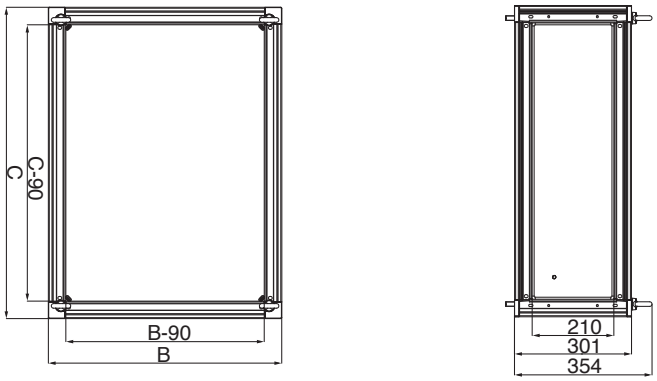
Top busbar chamber

- Chamber which protects and supports the sets of horizontal bars.
- Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment.
- It is only installed at the top of the enclosure.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP55 according to IEC 60529

Supply:
One structure of the busbar chamber as a kit
Two front panels
Reinforced coupling kit
One sealing gasket


NSYTBC336

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Top busbar chamber	300	300	500	**NSYTBC335**
Top busbar chamber	300	300	600	**NSYTBC336**
Top busbar chamber	300	300	800	**NSYTBC338**
Top busbar chamber	300	400	500	**NSYTBC345**
Top busbar chamber	300	400	600	**NSYTBC346**
Top busbar chamber	300	400	800	**NSYTBC348**
Top busbar chamber	300	600	500	**NSYTBC365**
Top busbar chamber	300	600	600	**NSYTBC366**
Top busbar chamber	300	600	800	**NSYTBC368**
Top busbar chamber	300	800	500	**NSYTBC385**
Top busbar chamber	300	800	600	**NSYTBC386**
Top busbar chamber	300	800	800	**NSYTBC388**
Top busbar chamber	300	1000	500	**NSYTBC3105**
Top busbar chamber	300	1000	600	**NSYTBC3106**
Top busbar chamber	300	1000	800	**NSYTBC3108**
Top busbar chamber	300	1200	500	**NSYTBC3125**
Top busbar chamber	300	1200	600	**NSYTBC3126**
Top busbar chamber	300	1200	800	**NSYTBC3128**



Side panels for the top busbar chamber

- Set of two side panels for coupling with the busbar chamber.
- Captive screws.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Supply:
Two side panels and fixing elements


NSYSPBC35

Characteristics	Depth (mm)	References
Side panels for the top busbar chamber	500	**NSYSPBC35**
Side panels for the top busbar chamber	600	**NSYSPBC36**
Side panels for the top busbar chamber	800	**NSYSPBC38**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Side busbar chamber

- Protects and supports the sets of vertical bars.
- Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment.
- It can be installed on either of the two sides of the enclosure.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP55 according to IEC 60529

Supply:
One structure of the busbar chamber
One roof
One rear panel
One door with handle (5 mm DB lock)


NSYSF18440

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Side busbar chamber	1800	400	400	**NSYSF18440**
Side busbar chamber	1800	400	500	**NSYSF18450**
Side busbar chamber	1800	400	600	**NSYSF18460**
Side busbar chamber	2000	300	500	**NSYSF20350**
Side busbar chamber	2000	300	600	**NSYSF20360**
Side busbar chamber	2000	300	800	**NSYSF20380**
Side busbar chamber	2000	400	400	**NSYSF20440**
Side busbar chamber	2000	400	500	**NSYSF20450**
Side busbar chamber	2000	400	600	**NSYSF20460**
Side busbar chamber	2000	400	800	**NSYSF20480**
Side busbar chamber	2200	400	600	**NSYSF22460**

Side panels for the side busbar chamber

- Set of 2 side panels fixed to the outside.
- Captive screws.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Supply:
Two side panels with external fixing and fixing elements


NSY2SP184

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Side panels	1800	400	400	**NSY2SP184**
Side panels	1800	400	500	**NSY2SP185**
Side panels	1800	400	600	**NSY2SP186**
Side panels	2000	300	500	**NSY2SP205**
Side panels	2000	300	600	**NSY2SP206**
Side panels	2000	300	800	**NSY2SP208**
Side panels	2000	400	400	**NSY2SP204**
Side panels	2000	400	500	**NSY2SP205**
Side panels	2000	400	600	**NSY2SP206**
Side panels	2000	400	800	**NSY2SP208**
Side panels	2200	400	600	**NSY2SP226**

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Accessories for low voltage switchboards

630 A bar support

Spacial SF:
- support prepared for coupling directly to the structure of the enclosure.

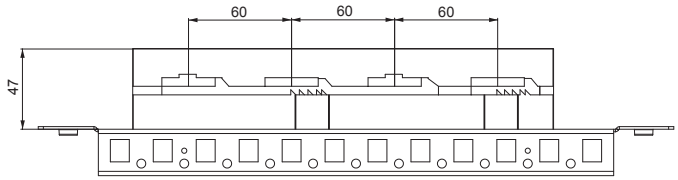
Spacial SFX:
- a universal cross rail is needed, in some cases, to replace the 400 mm quick fixing cross rail.

Spacial SM:
- installation by means of a vertical adaptation profile and 40 mm universal cross rails (1 row).
- Maximum nominal rating 630 A.
- Determine according to the enclosed table the cross-section of the bars and the distance between supports, according to the nominal and short-circuit current respectively.

Supply:
One 630 A bar support, one 40 mm quick fixing cross rail and fixing elements


NSYBS400

Characteristics	Width (mm)	References
630 A bar support	400	**NSYBS400**
630 A bar support	500	**NSYBS500**
630 A bar support	600	**NSYBS600**
630 A bar support	800	**NSYBS800**







Nominal rating IP55 NR (A)	No. of barsper phase	Bar cross-section (mm)	Bar cross-section (mm²)	Maximum distance between bar supports according to the short-circuit current (mm) Icc kA							Neutral (mm)	Earth (mm)
				12	23	30	39	52	66	69		
200	1	12 x 5	60	525	525	525	400	250	-	-	-	-
250	1	12 x 5	75	575	575	575	450	325	-	-	-	-
320	1	20 x 5	100	600	600	600	475	350	150	-	12 x 5-10	-
390	1	25 x 5	125	600	600	600	475	350	150	-	12 x 5-10	6 x 3
440	1	30 x 5	150	650	650	650	650	525	400	350	20 x 5-10	10 x 3
500	1	20 x 10	200	675	675	675	525	350	150	-	25 x 5-10	10 x 6
600	1	30 x 10	300	675	675	675	600	475	325	275	30 x 5-10	10 x 6

630 A busbar end cover

- Busbar end protection.
- Fixing: Direct installation on the actual bar support (insulator)

Supply:
Two 630 A bar support plates and fixing elements


NSYBSC630

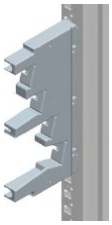
Characteristics	References
630 A busbar end cover	**NSYBSC630**

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Accessories for low voltage switchboards

630 A multi-stage bar support


04192

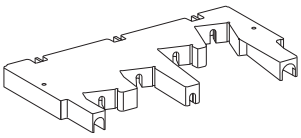
- Support for fixing bars with cross-sections: 15 x 5, 20 x 5, 32 x 5, 32 x 8.
- The orientation of the copper bars makes tightening easier and allows better circulation of the cables.
- It can be 3-pole or 4-pole, with gauges from 160 to 630 A.

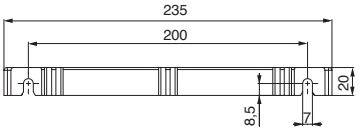
Electrical characteristics:

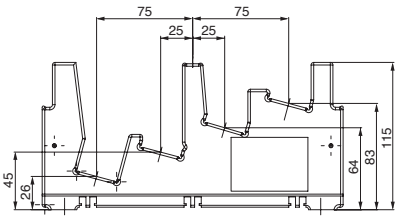
- Rated peak withstand current Ipk (kA):
- - 30 kA for 160 A busbar,
- - 40 kA for 250 A busbar,
- - 55 kA for 400 A and 630 A busbar.
- Rated insulation voltage Ui = 750 V.
- Material: Insulating plastic
- Fixing: Mounting on mounting plates (see **page 236**) or cross rails (see **page 245**) M6 x 25 self-tapping screws are required for fixing on the cross rails, not included

Supply:
1 multi-stage bar support and fixing elements

Characteristics	References
630 A multi-stage bar support	**04192**





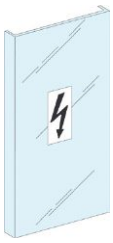


The following table shows:

- The cross-section of the bars that will be used according to the current-carrying capacity in the busbar.
- The distance between the bar supports that will be installed according to the rated short-time withstand current: Icw.

		Centre-to-centre distance of the supports (mm) Icw (kA eff/1 s)				
Rating (A)	Bar crosssection (mm)	10	13	15	20	25
160	15 x 5	450	–	–	–	–
250	20 x 5	450	450	–	–	–
400	32 x 5	450	450	450	300	300 I_{cw} (kA eff/0.6 s)
630	32 x 8	450	450	450	300	300

Screen for 630 A multi-stage busbar


04197

- Protects against direct contact from the front in the connections of the busbar.
- Length: 1500 mm.
- Fixing: Direct mounting on the actual support

Supply:
1 screen for multi-stage busbar and fixing elements

Characteristics	References
Screen for 630 A multi-stage busbar	**04197**

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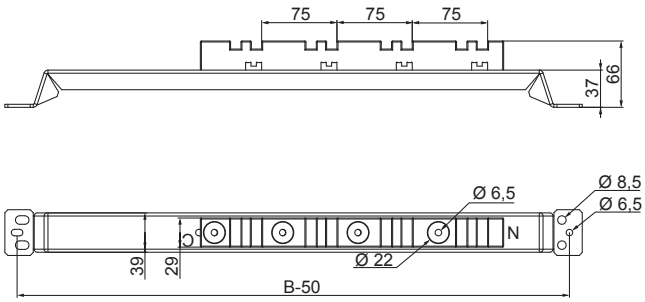
Vertical bar support

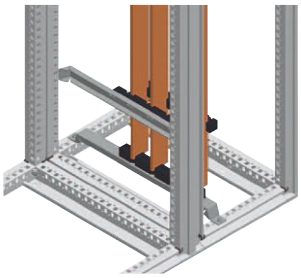

NSYBVS400

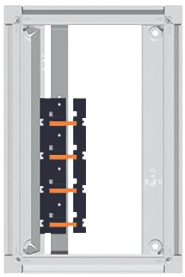
- Support prepared for fixing bars in vertical position, mounted directly on the structure of the enclosure. Adjustable height with a pitch of 25 mm.
- For a nominal rating In ≥ 3000 A and ≤ 4000 A you must add one spacer ref. **04646**.

Supply:
2 insulating bar supports,
1 metal vertical support and fixing elements

Characteristics	Width / Depth (B) (mm)	References
Vertical bar support	400	**NSYBVS400**
Vertical bar support	500	**NSYBVS500**
Vertical bar support	600	**NSYBVS600**
Vertical bar support	800	**NSYBVS800**







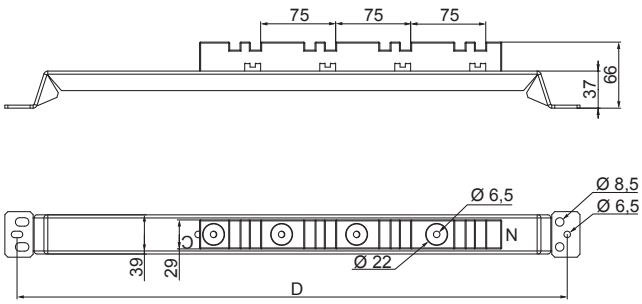
Setting support

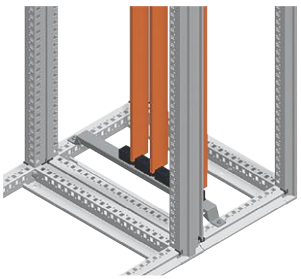
- Bottom support for bars in vertical position.
- It is fixed to the bottom frame of the enclosure.
- It is required for supporting the bars.
- It is not considered a bar support when calculating the number of supports

Supply:
1 insulating bar support,
1 metal vertical support and fixing elements

Characteristics	Width / Depth (B) (mm)	References
Setting support	400	**NSYAS400**
Setting support	500	**NSYAS500**
Setting support	600	**NSYAS600**
Setting support	800	**NSYAS800**


NSYAS400





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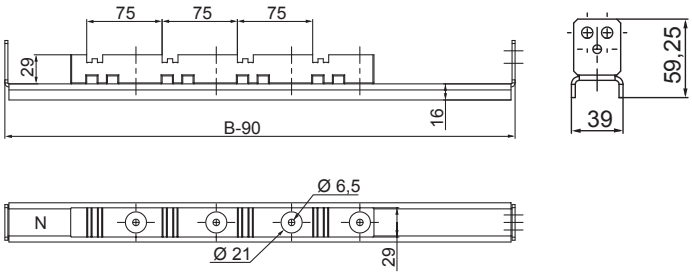
Horizontal bar support

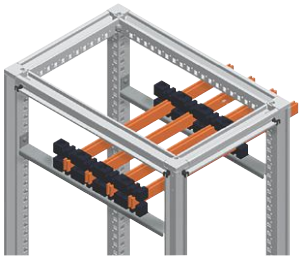
- Support prepared for fixing bars in horizontal position.
- Direct mounting to the structure of the enclosure, on the vertical uprights, at any height, adjustable with a pitch of 25 mm.
- For a nominal rating $I_n \geq 3000$ A and ≤ 4000 A you must add one spacer ref. **04646**.

Supply:
2 insulating bar supports,
1 metal horizontal support and fixing elements


NSYBHS500

Characteristics	Width / Depth (B) (mm)	References
Horizontal bar support	500	**NSYBHS500**
Horizontal bar support	600	**NSYBHS600**
Horizontal bar support	800	**NSYBHS800**





Bar support arm

- Support without fixing to the enclosure, required to guarantee the distance between the bars.
- It is used on bars in both vertical and horizontal position.
- For a nominal rating $I_n \geq 3000$ A and ≤ 4000 A you must add one spacer ref. **04646**.

Supply:
2 insulating bar supports and fixing elements


NSYBSA

Characteristics	Width / Depth (B) (mm)	References
Bar support arm	500	**NSYBSA**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Overview of the offer Masterpact NT and NW



Circuit breakers

Ratings:

- Masterpact NT: 630 to 1600 A
- Masterpact NW: 800 to 4000 A.
- Circuit breakers type N1, H1, H2, H3, L1.
- Switch-disconnectors type NA, HA, HF, HH.
- 3 or 4 poles.
- Fixed or drawout versions.
- Option with neutral on the right.
- Protection derating.



Micrologic control units

Ammeter A and Energy E

- 2.0 basic protection
- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection (Only for ammeter A).

Power meter P

- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection

Harmonic meter H

- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection
- External sensor for earth-fault protection.
- Rectangular sensor for earth-leakage protection.
- Setting options (long-time rating plug):
- low setting 0.4 to 0.8 x Ir
- high setting 0.8 to 1 x Ir
- without long-time protection.
- External AD power-supply module.
- Battery module.



Power meter functions

Masterpact equipped with Micrologic 2 / 5 / 6 / 7 trip units offer type A (ammeter) or E (energy) metering functions as well as communication. Using Micrologic sensors and intelligence, Masterpact provides access to measurements of all the main electrical parameters on the built-in screen, on a dedicated FDM display unit or via the communication system.



Operating assistance functions

Integration of measurement functions provides operators with operating assistance functions including alarms tripped by user-selected measurement values, time-stamped event tables and histories, and maintenance indicators.



Communication

- COM option in Masterpact.
- Masterpact in a communication network.
- IFM: Modbus interface module.
- IFE: Ethernet interface module.
- I/O application module.
- Electrical Asset Manager.



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Overview of the offer Masterpact MTZ



Circuit breakers

MTZ1
From 630 to 1600 A



MTZ2
From 800 to 4000 A

MicrologicTM X control units

2.0X | 5.0X | 6.0X | 7.0X
Only four references



Digital Modules

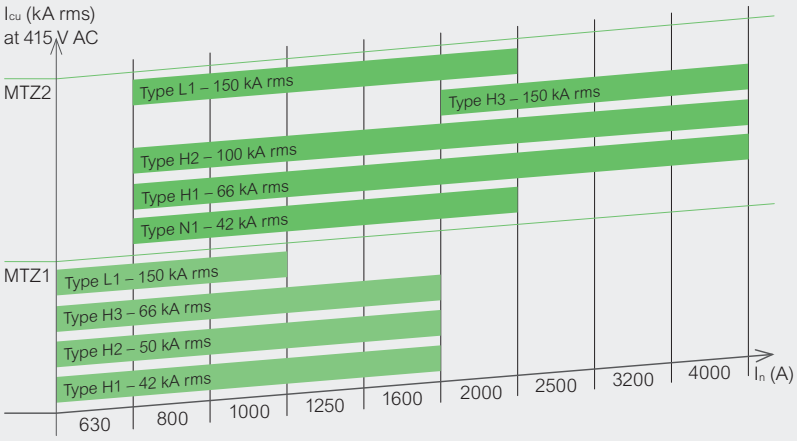


Protection

Measurement

Diagnostics and Maintenance

Five performance levels
N1, H1, H2, H3, L1





Masterpact MTZ1

Find all functions and technical characteristics in:
Masterpact MTZ catalogue
LVPED216026EN



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Accessories for low voltage switchboards

Masterpact support

Introduction

Installation of a Masterpact in a SF switchboard requires:
- Lateral cross rails (**NSYSQCR●●**, **NSYSUCR●●**) (See table below)
- 1 specific transversal Masterpact support (**NSYFXMN●●**) fixed to the lateral cross rails
- Bar supports to reduce bar movements due to constraints

Masterpact supports New

Dedicated offer to secure and facilitate Masterpact positioning in the switchboard
- Less distortion
- Reduced installation time
- Possibility to use bar CAD library



Masterpact supports W600

- Cut outs already defined
- Availlable in the Schneider CAD library
- Material: Galvanised steel
- Mounting instructions: Screwdriver: T30, Tightening torque: 4.5 Nm/39.82 lb-in

Supply:
1 support delivered with fixing elements
(self tapping screws M6/T30 + type 9/M6 cage nuts)


NSYFXMNT60F

Characteristics	Masterpact association	References
Masterpact MTZ1 and NT	Fixed	**NSYFXMNT60F**
Masterpact MTZ1 and NT	Withdrawable	**NSYFXMNWT60FW**
Masterpact MTZ2 and NW	Fixed	**NSYFXMNWT60FW**
Masterpact MTZ2 and NW	Withdrawable	**NSYFXMNWT60FW**

Masterpact supports W800

- Cut outs already defined
- Availlable in the Schneider CAD library
- Material: Galvanised steel
- Mounting instructions: Screwdriver: T30, Tightening torque: 4.5 Nm/39.82 lb-in

Supply:
1 support delivered with fixing elements
(self tapping screws M6/T30 + type 9/M6 cage nuts)

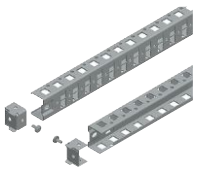

NSYFXMNT80F

Characteristics	Masterpact association	References
Masterpact MTZ1 and NT	Fixed	**NSYFXMNT80F**
Masterpact MTZ1 and NT	Withdrawable	**NSYFXMNT80W**
Masterpact MTZ2 and NW	Fixed	**NSYFXMNW80F**
Masterpact MTZ2 and NW	Withdrawable	**NSYFXMNW80W**

Associated cross rails

- Material: Zinc-coated steel

Supply:
2 cross rails and fixing elements (see cross rail section page 243 for more information)


NSYSUCR65●●

Characteristics	References
in Masterpact association: MTZ1 and NT	**NSYSUCR65●●**
in Masterpact association: MTZ2 and NW	**NSYSUCR90●●**

Associated cross rails

- Material: Zinc-coated steel

Supply:
2 cross rails and fixing elements (see cross rail section page 243 for more information)


NSYSQCR65●●

Characteristics	References
in Masterpact association: MTZ1 and NT	**NSYSQCR65●●**
in Masterpact association: MTZ2 and NW	**NSYSQCR90●●**

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Accessories for low voltage switchboards

Bar supports

Supports for Masterpact MTZ1 and NT

- Fixing by screw with hexagonal head.
- Material: Metal support: Zinc-coated steel, Isolating supports: thermosetting coating

Supply:
2 insulating bar supports,
1 metal horizontal support and fixing element


NSYBHNT500

Characteristics	Width (mm)	References
Fixed support	500	**NSYBHNT500**
Fixed support	600	**NSYBHNT600**
Fixed support	800	**NSYBHNT800**

Supports for Masterpact MTZ1 and NT

- Fixing by screw with hexagonal head.
- Material: Isolating supports: Thermosetting coating

Supply:
2 insulating bar supports and fixing elements


NSYBSA70

Characteristics	References
Free support	**NSYBSA70**

Supports for Masterpact MTZ2 and NW

- Fixing by screw with hexagonal head.
- Material: Metal support: Zinc-coated steel, Isolating supports: thermosetting coating

Supply:
2 insulating bar supports,
1 metal horizontal support and fixing element


NSYBHNW600

Characteristics	Width (mm)	References
Fixed support	600	**NSYBHNW600**
Fixed support	800	**NSYBHNW800**

Supports for Masterpact MTZ2 and NW

- Fixing by screw with hexagonal head.
- Material: Isolating supports: Thermosetting coating

Supply:
2 insulating bar supports and fixing elements


04678

Characteristics	References
Free support	**04678**

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Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fast connection distribution blocks

	Linergy DX				
			 	 	
	63 A	63 A	125 A	160 A	160 A
Characteristics	**04040**	**04041**	**04045 + 04047**	**04046**	**04031**
	• Incoming through the top. • Clip-on to rail.	• Incoming through the bottom. • Clip-on to rail.	• Set of 4 • 35 mm² flexible connections, length 210 mm to be ordered separately (cat. no. 04047). • Clip-on to rail.	• Set of 4 prefabricated flexible connections supplied, for connection with an INS100/160 or NSA160 switch, installed on the right or left. • Clip-on to rail	Clip-on to rail.
Number of poles	4P		4P		1P
Total connection capacity (dia. for flexible cables)					
4 mm²	-		7		-
6 mm²	12 per phase + 12 neutral		3		6
10 mm²	-		2		-
16 mm²	-		1 tunnel terminal		6
25 mm²	4 tunnel terminals per phase + 1 neutral		-		-
35 mm²	-		1 tunnel terminal		-
70 mm²	-		-		1 tunnel terminal
Size in 9 mm- modules	8		12		4.5
Size in 18 mm- modules	4		6		2.5

Screw distribution blocks

	Linergy DS							Linergy BS		
										
	125 A	160 A	250 A	100 A	125 A		160 A	160 A	250 A	400 A
Characteristics	**LGY112510**	**LGY116013**	**LGY125014**	**LGY410028**	**LGY412548**	**LGY412560**	**LGY416048**	**04052**	**04053**	**04054**
	• Clip-on to rail.			• Clip-on to rail.				• To be screwed on back. • 13 M6 tapped holes + 4 plain holes of dia. 12.2 mm.		
Number of poles	1P			4P				4P		
Total connection capacity	10	13	14	4 x 7	4 x 12	4 x 15	4 x 12	4 + 13 (dia. for flexible cables: 50 mm²)		
Size in 9 mm- modules	3	4	5	8	14	20	18	-	-	-
Neutral terminal strip (optional)	-	-	-	LGYN1007	LGYN12512	LGYN12515	LGYN12512	-	-	-

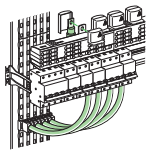
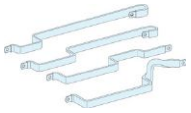
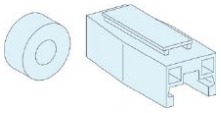
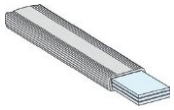
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Accessories for low voltage switchboards

Quick device feeders

	Linergy FM: For cable links						
	 63 A	 80 A	 160 A	 200 A			
Characteristics	**04008**	**04000**	**04018**	**04012**	**04013**	**04014**	**04026**
	4P Cable to be used without ferrules.	4P -	4P Cable to be used without ferrules.	2P.	3P	4P	4P
Length in 9 mm- modules	24	48	24	48			72
Length in 18 mm- modules	12	24	12	24			36
Supply at incomming terminals	Enclosed terminals for cables up to 25 mm²	Enclosed terminals for flexible cables 6 to 25 mm² or rigid cables 10 to 35 mm²	Direct onto the row by cable 70 mm² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection				
Downstream connection capacity							
Max. 4 mm², Phase	6	-	-	-	-	-	-
Max. 4 mm², Neutral	4	-	-	-	-	-	-
Max. 6 mm², Phase	6	18	-	-	-	-	-
Max. 6 mm², Neutral	4	18	-	-	-	-	-
Max. 10 mm², Phase	-	-	18	12	36	36	54
Max. 10 mm², Neutral	-	-	9	12	-	18	27
Accessories included							
Pre-stripped copper connections	10 of 4 mm² + 6 of 6 mm² (L=100 mm)	12 blue + 12 black	12 of 10 mm² (L=100 mm)	24 of 10 mm²			36 of 10 mm²
Protective cover	-	-	For pads (IPxxB)	-	-	-	-
Screws and nuts	-	-	For pads	-	-	-	-

Linergy FM with upstream device

	Connection of Linergy FM with upstream device				
					
Characteristics	**04021 + 04150 insulating covers**	**04024**	**04029**	**04030**	**04743**
Upstream device	Linergy BW busbar	Multi-stage Linergy BS busbar	Rear Linergy BS busbar	Device 160 A	Busbar
Connection hardware	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 160 A connection for Linergy FM 1/2 row	200 A connection (20 x 3 mm) for Linergy FM

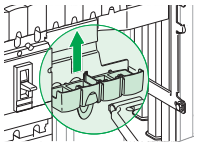
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Accessories for low voltage switchboards

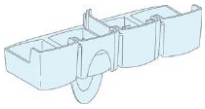
Feeders for Compact NSX et INS

	Linergy FC	
	 Compact NSX100/250 and INS/INV250 - All controls, fixed and withdrawable	
Characteristics	**04407**	**04408**
	• Linergy FC without prefabricated connections: • The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (**04922**). In this case, use the form 2 restoration kit (**04924**). • For the connection, use insulated flexible bars, 32 x 8 mm (**04753**). Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.	
Number of poles	3P	4 P
Connection to	Linergy BS, Linergy LGY or Linergy LGYE busbars	
Number of devices	4	3
Composition	Self-adhesive labels to mark the phases for connections to the busbars.	

Accessories



Tooth caps


04809

- The caps block off the reserve terminals on a Linergy FC distribution block.
- Made of an insulating material, they simply clip on from the front.

Characteristics	References
Tooth caps	**04809**

Mounting plate for Linergy FC


NSYMPLGYFC600

- Fixing with **NSYMPFIX** kit
- Material: Galvanised steel

Supply:
1 mounting plate

Characteristics	Width (mm)	References
Mounting plate for Linergy FC	600	**NSYMPLGYFC600**
Mounting plate for Linergy FC	800	**NSYMPLGYFC800**

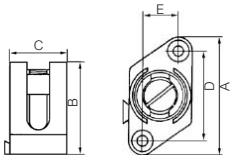
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Accessories for low voltage switchboards

Sigma safety terminals

- Safety terminals made from self-extinguishing Polyamide-6, with matt black base, MS-58 brass terminal (DIN 17660), tempered, zinc-plated and dichromated steel ring, and cover made from orange-coloured selfextinguishing polypropylene.
- Anti-shearing: The connection is made by means of a tightening mechanism, which distributes the pressure across the entire contact surface, avoiding friction and occasional stress that can damage the conductors.
- Unloosenable: The ring that surrounds the brass body guarantees that the pressure exerted by the actual conductors cannot open the terminal and loosen the connection.
- Full insulation: All the SIGMA "S" terminals are supplied with a terminal-covering cap, avoiding any accidental contact with live parts. All the gauges can be coupled together, forming strips of any length. Operating voltage: 500 V.



Note:
Each terminal accepts up to 2 conductors with the specified section.
20 units
(except for ref. **NSYS95100**: 10 units)


NSYS16

Characteristics	Section (mm²)	A	B	C	D	E	References
Sigma safety terminals	1 x 4	30	20	13	21	4	**NSYS04**
Sigma safety terminals	1 x 6	33	25	16	24	7	**NSYS06**
Sigma safety terminals	1 x 10	38	28	16	28	6	**NSYS10**
Sigma safety terminals	1 x 16	42	32	19	32	9	**NSYS16**
Sigma safety terminals	1 x 35	46	38	23	34	11	**NSYS2535**
Sigma safety terminals	1 x 50	52	45	27	40	15	**NSYS50**
Sigma safety terminals	1 x 70	55	50	30	40	15	**NSYS70**
Sigma safety terminals	1 x 100	58	54	33	40	20	**NSYS95100**

Bimetal terminals

- Terminals specially designed for the junction of cables on plates, their main application is in busbar connections. The bimetal terminals are made from a copper alloy, hot-stamped and tin plated, suitable for connecting a copper or aluminium conductor indistinctly (bimetal).

Supply:
4 bimetal terminals


NSYBBH29P

Characteristics	Main section (mm²)	Junction section (mm²)	References
Bimetal terminals	6-50	-	**NSYBBH29**
Bimetal terminals	6-50	-	**NSYBBH29C**
Bimetal terminals	10-95	-	**NSYBBH30**
Bimetal terminals	16-150	-	**NSYBBH31**
Bimetal terminals	50-240	-	**NSYBBH32**
Bimetal terminals	6-50	6-50	**NSYBBH29D**
Bimetal terminals	10-95	10-95	**NSYBBH30D**
Bimetal terminals	25-150	16-150	**NSYBBH31D**
Bimetal terminals	95-240	5-240	**NSYBBH32D**
Bimetal terminals	6-50	-	**NSYBBH29P**
Bimetal terminals	6-50	6-50	**NSYBBH29DPC**

Plate/cable terminals

Supply:
1 junction terminal

- Entry by plate and junction by cable, plate or terminal


Fig. 1 Fig. 2

Characteristics	Junction cable section (mm²)	Plate thickness (mm)	Fig.	References
Plate/cable terminals	1.5 to 16	5	2	**NSYBPCH516**
Plate/cable terminals	1.5 to 50	5	2	**NSYBPCH550**
Plate/cable terminals	16 to 120	5	2	**NSYBPCH5120**
Plate/cable terminals	1.5 to 16	10	1	**NSYBPCH1016**
Plate/cable terminals	1.5 to 50	10	1	**NSYBPCH1050**

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Accessories for low voltage switchboards

Three pole junction terminals

Supply:
1 junction terminal

- Entry by plate and junction by cable (for busbars).


NSYBTE630TBT

Characteristics	Entry plate width	Entry plate thickness	Junction cable section	References
Three pole junction terminals	12/15/20/25/30 mm	5 to 10 mm	35 to 120 mm²	**NSYBTE630TBT**

Earthing strips

- For the junction of neutral and earth cables.
- Models **NSYRBL●●** (Fig. 3) for installation in boxes with insulating rear or by means of insulators, not supplied.
- Models **NSYRBLZ●●** (Fig. 4) with insulating plinth for fitting under pressure on 12 x 2 mm rail.

Supply:
10 earthing strips

Fig. 3

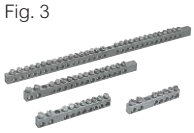

NSYRBL21656M

Fig. 4

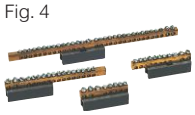

NSYRBLZ21656

Fig. 4

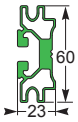
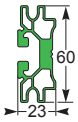
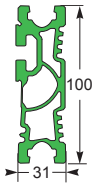
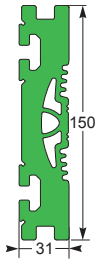
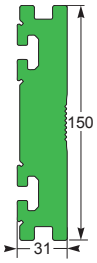
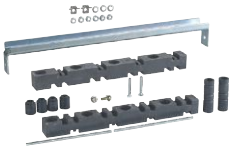

NSYRBLZ21656

Characteristics	Number of terminals x section	Fig	References
Earthing strips	2 x 16 mm² + 5 x 6 mm²	3	**NSYRBL21656M**
Earthing strips	2 x 16 mm² + 8 x 6 mm²	3	**NSYRBL21686M**
Earthing strips	2 x 16 mm² + 14 x 6 mm²	3	**NSYRBL216146M**
Earthing strips	2 x 16 mm² + 29 x 6 mm²	3	**NSYRBL216296M**
Earthing strips	2 x 16 mm² + 5 x 6 mm²	4	**NSYRBLZ21656**
Earthing strips	2 x 16 mm² + 8 x 6 mm²	4	**NSYRBLZ21686**
Earthing strips	2 x 16 mm² + 14 x 6 mm²	4	**NSYRBLZ216146**
Earthing strips	2 x 16 mm² + 29 x 6 mm²	4	**NSYRBLZ216296**

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Accessories for low voltage switchboards

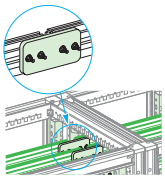
Linergy LGYE - Horizontal profiles up to 4000 A

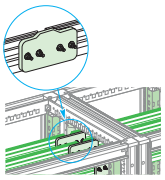
Installation in Spacial SF		Up to 1600 A					Up to 4000 A			
Linergy profiles, 2000 mm length		 630 A	 800 A	 1000 A	 1250 A	 1600 A	 2000 A	 2500 A	 3200 A	 4000 A
Permissible current for an ambient temperature of 35 °C around the switchboard	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Number of profiles per phase		1								
Height available (mm)		150					150		200	
References		**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**	**04567**	**04568**
Busbar supports		 Fixed support **NSYBHS●●**			 Free support **NSYBSA**					
		2 supports shall mandatorily be fastened to the structure of the 800 mm wide Spacial SF cubicle. If the width is greater, add a NSYSUCR40●● cabinet cross rail to add a third fixed support. 1 support shall mandatorily be fastened to the structure of the cubicles of width 300 mm and 400 mm. If more supports are required, use free supports.								
Number of supports depending on Icw (kA rms/1 s)	⩽ 15	2 x **NSYBHS●●** *								
	⩽ 25	2 x **NSYBHS●●** *								
	⩽ 30	2 x **NSYBHS●●** *								
	⩽ 40	-		2 x **NSYBHS●●** *						
	⩽ 50	-			2 x **NSYBHS●●** *					
	⩽ 60	-			2+1 **		2 x **NSYBHS●●** *			
	⩽ 65	-				2+1 **				
	⩽ 75	-				2+1 **				
	⩽ 85	-				2+1 **				
	⩽ 100	-					2+4 ***			
References Fixed support		**NSYBHS●●**							**NSYBHS●●** + **04646**	
References Free support		**NSYBSA**							**NSYBSA** + **04646**	

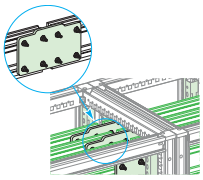
* If spacing between supports > 800 mm add 1 **NSYBSA** free support.
** If spacing between supports > 300 mm add 1 **NSYBSA** free support.
*** If spacing between supports > 135 mm add 1 **NSYBSA** free support.

Joints	Up to 1600 A					Up to 4000 A			
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
References (3P)	3x **04620**					3x **04621**		3x **04623**	
References (4P)	4x **04620**					4x **04621**		4x **04623**	

Note:
If insulation clearance < 20 mm add an insulating shield between the busbar and the metallic part of the cabinet.


04620


04621

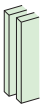
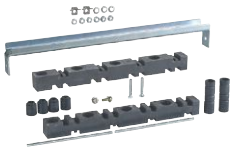
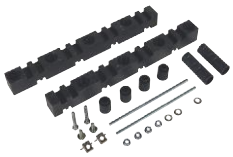

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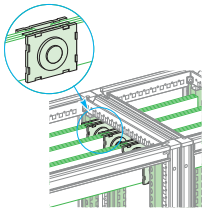
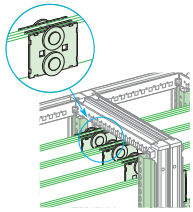
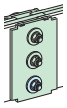
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Accessories for low voltage switchboards

Linergy BS - Horizontal busbars up to 4000 A

Installation in Spacial SF		Up to 1600 A				Up to 4000 A					
Copper without holes, 2000 mm length											
Permissible current for an ambient temp. of 35°C around the switchboard	IP > 31	750 A	900 A	1250 A	1600 A	1600 A	1800 A	2000 A	2500 A	2900 A	3340 A
Size of bars (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Number of bars per phase		1	1	2	2	1	2	2	2	2	2
Height available (mm)		150									200
References		**04536**	**04538**	**04536**	**04538**	**04548**	**04545**	**04546**	**04548**	**04550**	**04552**
Busbar supports		 Fixed support **NSYBHS●●**				 Free support **NSYBSA**					
		2 supports shall mandatorily be fastened to the structure of the 800 mm wide Spacial SF cubicle. If the width is greater, add a **NSYSUCR40●●** cabinet cross rail to add a third fixed support. 1 support shall mandatorily be fastened to the structure of the cubicles of width 300 mm and 400 mm. If more supports are required, use free supports.									
Number of supports depending on Icw (kA rms/1 s)	⩽ 15	2 x **NSYBHS●●** *									
	⩽ 25	2+1 **	2 x **NSYBHS●●** *								
	⩽ 30	2+1 **		2 x **NSYBHS●●** *							
	⩽ 40	2+1 **				2 x **NSYBHS●●** *					
	⩽ 50	-	2+1 **					2 x **NSYBHS●●** *			
	⩽ 60	-				2+1 **					
	⩽ 65	-				2+1 **					
	⩽ 75	-				2+4 ***	2+1 **				
	⩽ 85	-				-		2+1 **			
References Fixed support		**NSYBHS●●**									**NSYBHS●●** + **04646**
References Free support		**NSYBSA**									**NSYBSA** + **04646**

* If spacing between supports > 800 mm add 1 NSYBSA free support.
** If spacing between supports > 300 mm add 1 NSYBSA free support.
*** If spacing between supports > 135 mm add 1 NSYBSA free support.

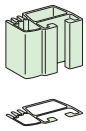
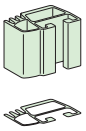
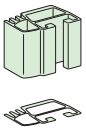
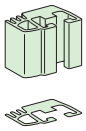
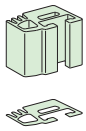
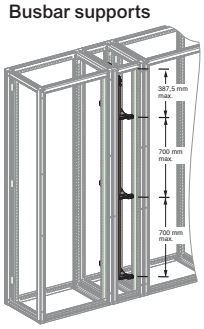
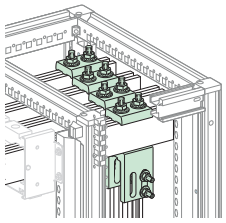
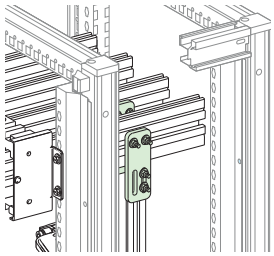
Joints Installation dans Spacial SF	Up to 1600 A				Up to 4000 A					
	1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase				
Size of bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
References	**04640**	**04641**	**04640**	**04641**	**04641**	**04640**	**04640**	**04641**	**04641**	**04643**
Sliding joints with torque nut	 **04640**			 **04641**						

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Life Is On Schneider Electric

Accessories for low voltage switchboards

Linergy LGY - Lateral profiles up to 1600 A

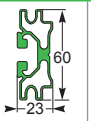
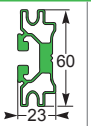
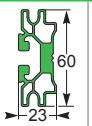
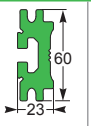
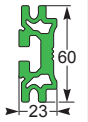
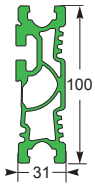
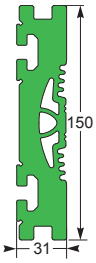
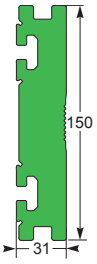
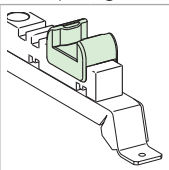
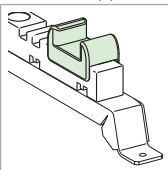
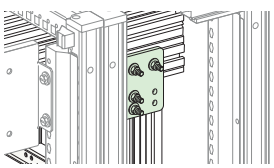
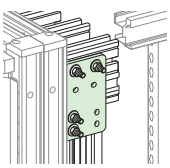
Installation in Spacial SF		L 300				
						
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
Permissible current for an ambient temp. of 35°C around the switchboard	IP ⩽ 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
References		**04502**	**04503**	**04504**	**04505**	**04506**
Busbar supports		 Fixed support **04651**		**Note:** An end stop must be fitted on the bottom support: **01109** (sold in lots of 12)		
 Only for depth cubicle ≥ 500 mm	**Number depending on I_{cw} (kA rms/1 s)**	⩽ 25	3			
		⩽ 30	-	3		
		⩽ 40	-	3		
		⩽ 50	-	4		
		⩽ 60	-	5		
		⩽ 65	-	5		
		⩽ 75	-	7		
		⩽ 85	-	8		
References		**04651 + upright adapters NSYSFPA + NSYSUCR40●●**				
Connections to the Linergy BS horizontal busbar			**Note:** Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.			
References according to horizontal busbar size	5 mm thick	**04634**			**04635**	
	10 mm thick, Width ⩽ 80 mm	**04636**				
	10 mm thick, Width > 80 mm	**04636 + 04642** **04638 + 04642**				
Connections to the Linergy LGYE horizontal busbar		 ⩽ 1600 A	**Note:** Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.			
References (vertical connection)		**04602**				
References (vertical shifted connection)		**04603**				

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Accessories for low voltage switchboards

Linergy LGYE - Lateral profiles up to 4000 A

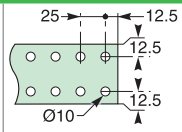
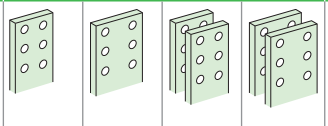
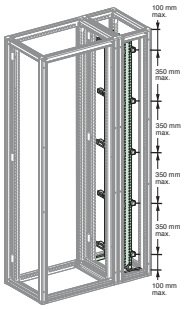
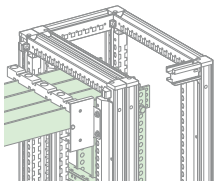
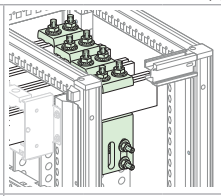
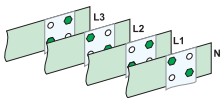
Installation in Spacial SF		L 300								
Linergy profile, 2000 mm length										
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
Permissible current for an ambient temperature of 35°C around the switchboard	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Number of profiles per phase		1								
Height available (mm)		150					150		200	
References		**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**	**04567**	**04568**
Busbar supports		 Fixed support **NSYBVS●●**			 Free support **NSYBSA**			 Bottom support **NSYAS●●**		
		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).								
 **Number depending on I_{cw} (kA rms/1 s)**	⩽ 30	3								
	⩽ 40	-		3+2 *			3			
	⩽ 50	-			3+2 *		3			
	⩽ 60	-			3+2 *				3	
	⩽ 65	-				3+2 *				
	⩽ 75	-				3+4 **			3+2 *	
	⩽ 85	-				3+4 **				
	⩽ 100	-						3+6 ***		
References Fixed support		**NSYBVS●●**							**NSYBHS●● + 04646**	
References Bottom support		**NSYAS●●**							**NSYAS●● + 04646**	
References Free support		**NSYBSA**							**NSYBSA + 04646**	
		* If spacing between supports > 400 mm add 1 **NSYBSA** free support. ** If spacing between supports > 250 mm add 1 **NSYBSA** free support. *** If spacing between supports > 130 mm add 1 **NSYBSA** free support.								
Wedging busbars in position		 Wedge fitted on bottom support					 Wedge fitted on bottom support			
		The bottom support **NSYAS●●** + **0465●** is used to place profiles and ensure they are in the correct position. It is not considered to be a busbar support.								
References		**04658** (set of 12 wedges)					**04659** (set of 12 wedges)			
Connections to the Linergy LGYE horizontal busbar		2000/2500 A 							3200/4000 A 	
		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.								
References (short connection)		**04604**							**04607**	
References (long connection)		**04605**								

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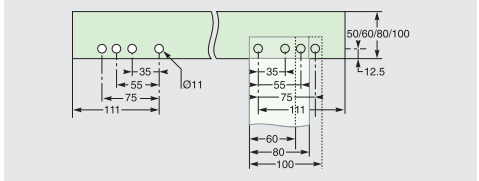
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Accessories for low voltage switchboards

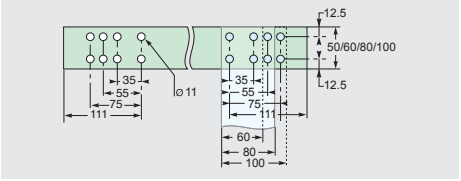
Linergy BS - Lateral flat busbars up to 3200 A

Installation in Spacial SF		Up to 1600 A				Up to 3200 A						
Pre-slotted copper, 1675 mm length												
Permissible current for an ambient temp. of 35°C around the switchboard	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Number of profiles per phase		1		2		1			2			
References		**04516**	**04518**	**04516**	**04518**	**04525**	**04526**	**04528**	**04525**	**04526**	**04528**	**04550**
Busbar supports		 Fixed support **NSYBVS●●**				 Free support **NSYBSA**			 Bottom support **NSYAS●●**			
		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.										
	**Number of supports depending on I_{cw} (kA rms/1 s)**	⩽ 15	3 *									
		⩽ 25	3+2 *		3 *							
		⩽ 30	3+2 *								3 *	
		⩽ 40	3+4		3+2 *							
		⩽ 50		3+4		3+2 *						
		⩽ 60				3+4					3+2 *	
		⩽ 65				3+4					3+2 *	
		⩽ 75					3+6		3+4			
		⩽ 85								3+4		
References Fixed support		**NSYBVS●●**										
References Bottom support		**NSYAS●●**										
References Free support		**NSYBSA**										
		* If spacing between supports > 350 mm add 1 NSYBSA free support.										
Connections to the Linergy BS horizontal busbar												
		For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.(3)				References **04636**, **04637**, **04638** are supplied individually: 1 connection per phase. Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.						
												
		1 bar per phase		2 bars per phase		1 bar per phase			2 bars per phase			
		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
References depending on horizontal busbar size	Width ⩽ 80 mm	**04645**				**04636**		**04637**				**04645**
	Width > 80 mm	**04645**				**04636 + 04642**		**04637 + 04642**				**04645**

[1] Drill hole dimensions for 5 mm thick horizontal busbars.



Drill hole dimensions for 10 mm thick horizontal busbars.

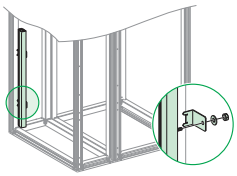
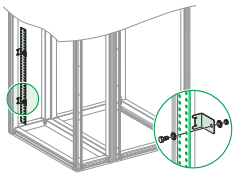
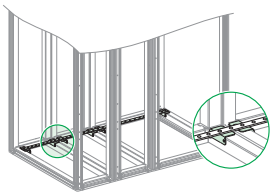


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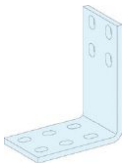
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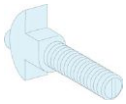
Accessories for low voltage switchboards

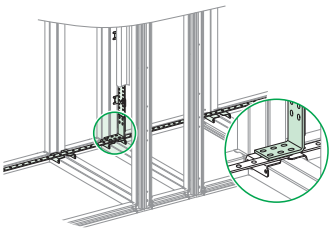
Linergy TB

		PE conductor						
								
Characteristics		Vertical PE conductor with Linergy LGY profile (W = 1670 mm)			Vertical PE conductor with Linergy BS busbar (W = 1675 mm)		Horizontal PE conductor with Linergy BS busbar	
Rated short-time current	**(Isc)**	≤ 65	> 65... ≤ 80	= 100	≤ 40	> 40	≤ 40	> 40
Permissible current	**(A)**	630	800	1250	-	-	-	-
Bar size	**(mm)**	-	-	-	25 x 5	50 x 5	25 x 5	50 x 5
Characteristics		-	-	-	Drilled flat bar Ø10.6 mm (one 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	-	-
References		**04502**	**04503**	**04505**	**04512**	**04515**	**04512**	**04512**

Connection between PE conductors

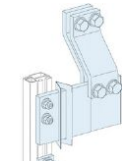

04672

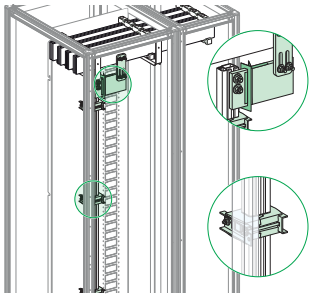

04766



Characteristics	Composition	References
Connection plates for horizontal/vertical PE bars	2 copper angle brackets	**04672**
Linergy connection hardware	20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars	**04766**

PEN conductor


04656



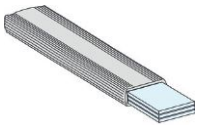
Characteristics	References
Linergy TB PEN installation kit with LGY vertical profile	**04656**
1600 A connection 10 mm horizontal busbar with Linergy LGY profile	**04636**
Linergy LGYE vertical connection 1600 A	**04602**

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Connection between device and busbars

- The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.
- The bar sizes indicated below take into account the derating curves of devices.
- Width: 1800 mm
- Rated insulation voltage (Ui): 1000 V
- Maximum withstand temperature for the insulating material: 125 °C



04742

Characteristics	Size (mm)	References
NSX100	20 x 2	**04742**
NSX160/250	20 x 3	**04743**
NSX400	32 x 5	**04751**
NSX630	32 x 8	**04753**
FM 200 A Linergy	20 x 3	**04743**
FC 3P Linergy	32 x 8	**04753**
FC 4P Linergy	32 x 8	**04753**
Fupact 250	24 x 5	**04746**
Fupact 400	32 x 5	**04751**
Fupact 630	32 x 8	**04753**

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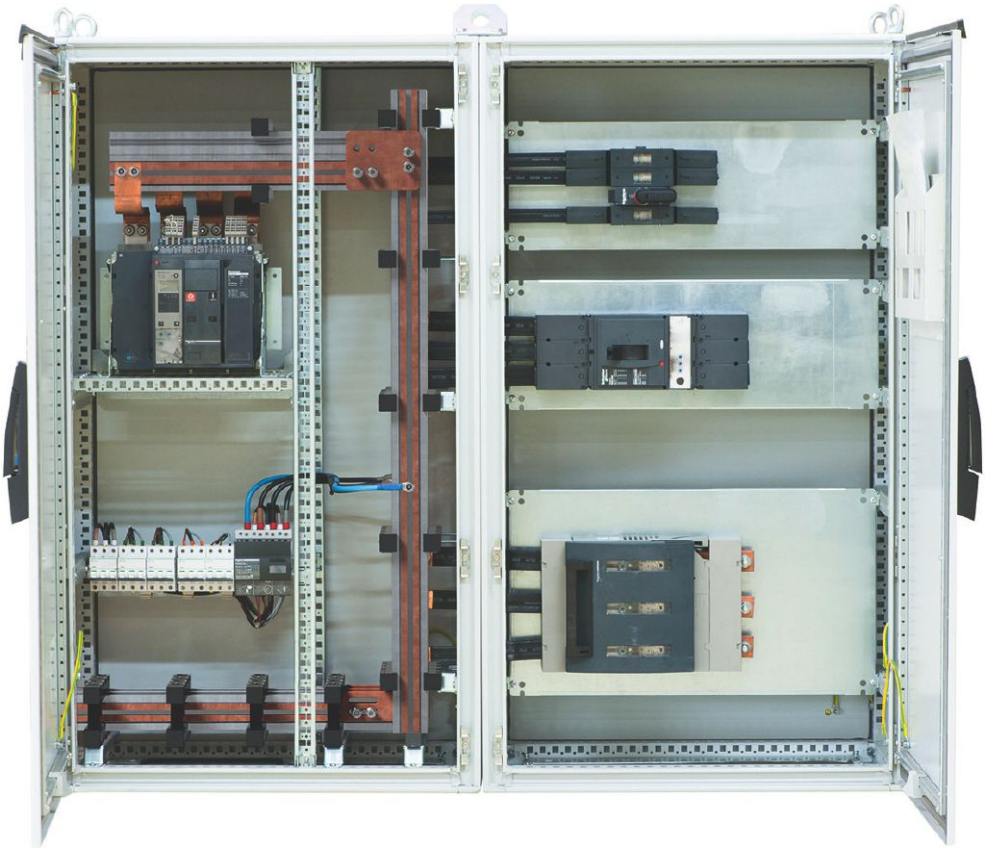
Accessories for low voltage switchboards

Spacial SF IEC 61439-2 certified assemblies

Introduction

Because low-voltage switchboards must comply with the IEC 61439-2 standard, we have tested the most unfavourable and the most representative configurations (§ 10.10.2 of IEC 61439-1 ed2 2011) ranging up to 4000 A. We thus cover the entire product range, based on the Spacial SF universal assembly system, allowing you to thus comply with the requirements of the standard.

Whether you are an OEM or a panelbuilder, using universal enclosures and looking for flexibility and reliable assembly advice for integration of the equipment, you will find in this guide how to produce in optimal conditions an electrical switchboard fitted with Schneider Electric equipment.



To meet continuity of service and electrical safety requirements, we provide you with certificates based on assemblies tested with a third-party organization in accordance with the IEC 61439-2 standard, adopting the most commonly used configurations, which will help you to finalize your switchboard with complete confidence using useful, reliable and certain information that has been verified

These tests cover the entire Spacial SF range of dimensions and supplement our range of tested Spacial SFP enclosures based on the functional unit system of Prisma, and Spacial SFM for MCC applications. This guide is also an opportunity to give a reminder of the fundamental rules for use of an enclosure and for installation of equipment in Spacial SF.

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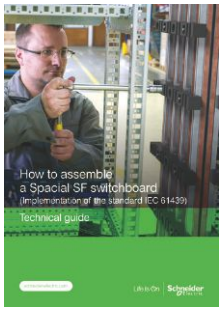
Accessories for low voltage switchboards

Spacial SF IEC 61439-2 certified assemblies

Compatibility table

Dimensions			Intensity (A)				
Height (mm)	Width (mm)	Depth (mm)	≤ 800 A	≤ 1250 A	≤ 1600 A	≤ 2500 A	≤ 4000 A
1200	600	400	●				
	600	600	●				
	800	400	●				
	800	600	●				
1400	600	400	●	●			
	800	400	●	●			
1600	600	600	●	●			
	600	800	●	●			
	800	600	●	●			
	800	800	●	●			
1800	600	400	●	●	●		
	600	500	●	●	●		
	600	600	●	●	●	●	
	600	800	●	●	●	●	
	800	400	●	●	●		
	800	500	●	●	●		
	800	600	●	●	●	●	
	1000	400	●	●	●		
	1000	500	●	●	●		
	1000	600	●	●	●	●	
	1200	400	●	●	●		
	1200	500	●	●	●		
	1200	600	●	●	●	●	
2000	600	400	●	●	●		
	600	500	●	●	●		
	600	600	●	●	●	●	
	600	800	●	●	●	●	●
	800	400	●	●	●		
	800	500	●	●	●		
	800	600	●	●	●	●	
	800	800	●	●	●	●	●
	1000	400	●	●	●		
	1000	500	●	●	●		
	1000	600	●	●	●	●	
	1000	800	●	●	●	●	●
	1200	400	●	●	●		
	1200	500	●	●	●		
	1200	600	●	●	●	●	
	1200	800	●	●	●	●	●
	1600	400	●	●	●		
	1600	500	●	●	●		
	1600	600	●	●	●	●	
2200	600	600	●	●	●	●	
	600	800	●	●	●	●	●
	800	600	●	●	●	●	
	800	800	●	●	●	●	●
	1000	600	●	●	●	●	
	1200	600	●	●	●	●	
	1200	800	●	●	●	●	●

●: Certified dimensions for indicated intensity



How to assemble a Spacial SF switchboard
(Implementation of the standard IEC 61439) Technical guide
Ref : UE17MK01EN

IEC 61439-2 certification (IECEE CB scheme issued by DEKRA) is valid only once installation has been carried out, according to the recommendations indicated in the technical guide, "how to assemble a Spacial SF switchboard", with the Schneider Electric devices featured in this guide.

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Prisma functional system

The Prisma functional system can be used for all types of low-voltage distribution switchboards up to 4000 A, in commercial and industrial environments.



Switchboard design is very simple

1. **A metal structure**
   made up of one or more frameworks combined side-by-side or back-to-back.
2. **A distribution system**
   positioned in a lateral compartment or at the rear of the cubicle are used to distribute electricity throughout the switchboard.
3. **Complete functional units**
   - dedicated mounting plate for device installation
   - front plate to block direct access to live parts
   - devices for on-site connections.

The functional units are modular and are arranged rationally, one on top of another, within the enclosure. The components of the Spacial SFP and those of the functional units in particular have been designed and tested taking into account device characteristics. This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.



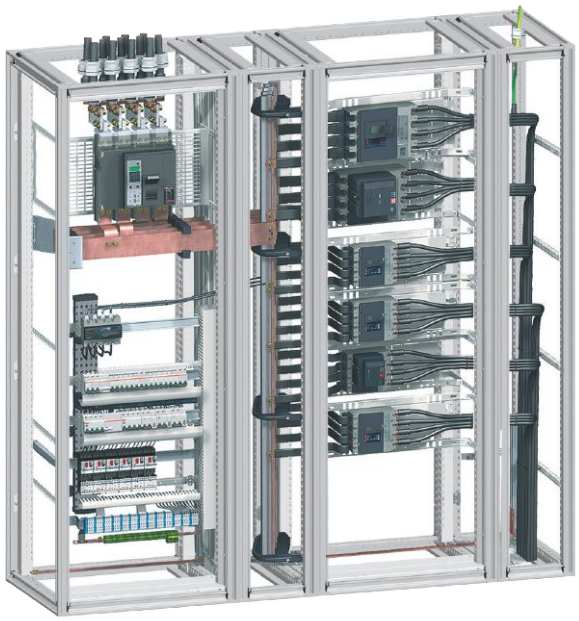
Advantages of Prisma system switchboards

1. **A safe electrical installation**
   The total compatibility of Schneider Electric devices with the Prisma system is a key advantage in ensuring a high level of installation dependability.
2. **An upgradeable electrical installation**
   Thanks to modular design, Spacial SFP switchboards can be modified easily to integrate new functional units as needed
3. **Total safety for personnel**
   Work in a switchboard must be carried out by authorised persons in compliance with all applicable safety regulations. To increase the safety of personnel, devices are installed behind protective front plates; Only the operating handles are accessible. Additional internal protection (partitions, barriers) is available to create form 2, form 3 and form 4 separation to protect against direct contacts with live parts.
   Terminal shields are mandatory for installation of Compact NSX and INS/INV devices in Prisma system enclosures.

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Prisma functional system

Use of the components in the Prisma functional system ensures the creation of switchboards complying with standards IEC 62208, IEC 61439-2.



Mechanical characteristics

- Steel sheet metal.
- Structured finish, epoxy polyester powder.
- Grey colour RAL 7035.
- Can be dismantled.
- Can be combined side-by-side and back-to-back.
- Degree of protection: IP55 according to IEC 60529.
- Degree of protection against mechanical impacts: IK10 (IK08 for the glazed-door) according to IEC 62262.

Framework dimensions:
two widths:

- W 300: Cable compartment
  W 700: Device compartment or cable compartment

three depths:

- D500 up to 1600 A with incoming Masterpact NT and MTZ1 only
- D600 up to 1600 A with incoming Masterpact NT and MTZ1 only. Possibility to connect with cables from rear
- D800 up to 3200 A with incoming Masterpact NT and MTZ1 or NW and MTZ2. Possibility to connect to cables from rear or to connect to rear vertical busbars
- height: 2000 mm
- Enclosures for indoor installation.

Electrical characteristics

- Rated insulation level of main busbars: 1000 V.
- Rated operational current Ie: 4000 A.
- Rated peak withstand current Ipk: 220 kA.
- Rated short-time withstand current I_{cw}: 100 kA rms/1 second.
- Frequency: 50/60 Hz.

Electrical switchboards built using the Prisma functional system and Schneider Electric recommendations fully comply with international standard IEC 61439-2.

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Prisma functional system

The forms according to IEC 61439-2
Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.

The forms according to IEC 61439-2

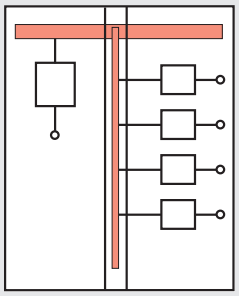
In most installations, Spacial SFP cubicles do not require partitioning. In this case, the switchboard is a Form 1. Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

The protection of life and property is a standard feature due to:

- front plates that require a tool to be removed
- keylocks on doors, some of which provide access to live parts
- the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors
- covering of the upstream and downstream terminals on the incoming device so that operators are perfectly safe at all points in the switchboard when the incoming device is off (open).

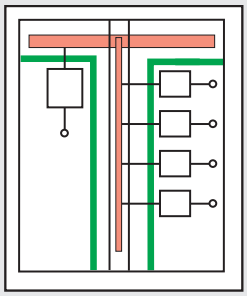
What is more, Spacial SFP offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a and 4b electrical switchboards. Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-2.

Form 1



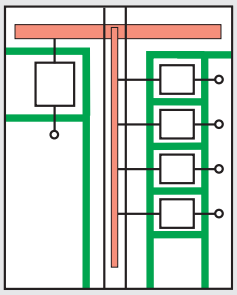
In most installations, Spacial SFP cubicles do not require partitioning. In this case, the switchboard is a Form 1.
Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

Form 2b



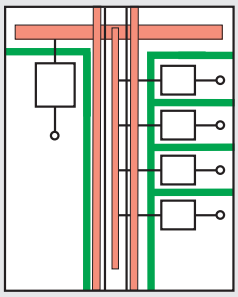
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

Form 3b



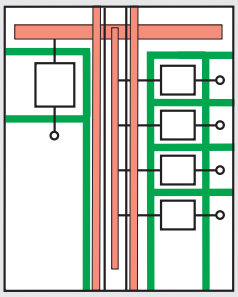
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

Form 4a



Terminals for external conductors in the same compartment as the associated functional unit.

Form 4b



Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

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Prisma functional system

Upgradeable Prisma functional units
Functional units include switchgear mounting plates, front plates, connection supports, barriers…



Masterpact
NW08 to NW40



Masterpact
NT06 to NT16



Masterpact
MTZ1 and MTZ2



Compact NSX
to 630 A



Compact NS
from 630b to 1600 A



Compact NS
to 3200 A



Easypact
from 100 to 630 A



Compact INS-
INV250-630 A



Compact INS-
INV630-2500 A



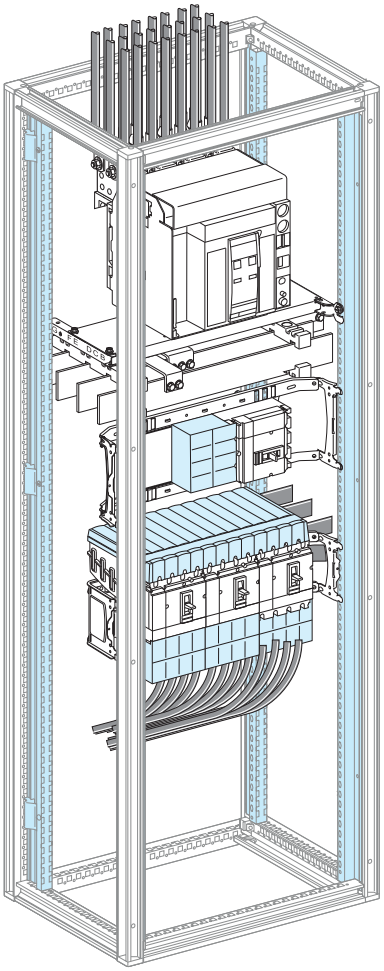
Source changeover
systems
Compact/Masterpact



Source changeover
systems Compact INS



Fupact from 32 to 1250 A

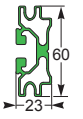
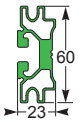
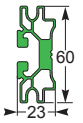
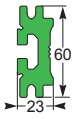
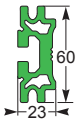
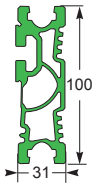
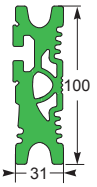
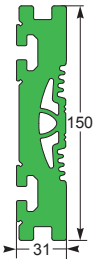
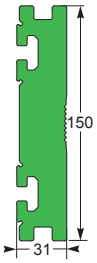
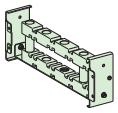
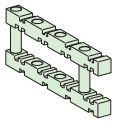
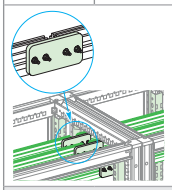
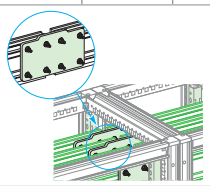
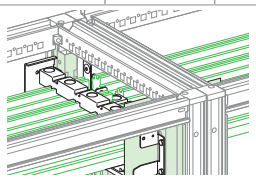


For more informations, see the catalogue Prisma P DESW016EN

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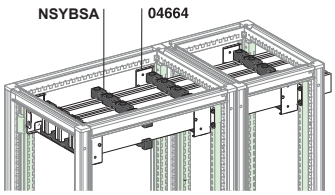
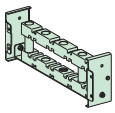
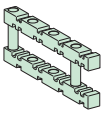
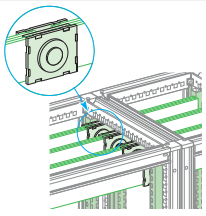
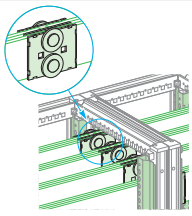
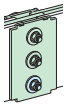
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Linergy LGYE - Horizontal profiles up to 4000 A

Installation in Spacial SFP		Up to 1600 A					Up to 4000 A			
Linergy profile, 2000 mm length										
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
Permissible current for an ambient temperature of 35°C around the switchboard	IP ⩽ 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3620 A
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Number of profiles per phase		1								
Total number of vertical modules (50 mm)		3					3		4	
References		**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**	**04567**	**04568**
Busbar supports		 Fixed support **04664**			 Free support **NSYBSA**					
		2 fixed supports for Spacial SFP 700 wide frame are compulsory. 1 fixed support for 300/400 wide frame are compulsory. If more supports are needed, add free supports.								
In cubicle: W700 Busbar supports 75 mm distance between bars	**Number of supports depending on I_{cw} (kA rms/1 s)** ≤ 15	2								
	≤ 25	2								
	≤ 30	2								
	≤ 40	-		2						
	≤ 50	-			2					
	≤ 60	-			2+1		2			
	≤ 65	-				2+1				
	≤ 75	-				2+1				
	≤ 85	-				2+1				
	≤ 100	-					2+2			
References Fixed support		**04664**					**04664** + **04671** (order 1 per support)		**04664** + **04646** (sold in lots of 12 spacers)	
References Free support		**NSYBSA**					**NSYBSA** + **04671** (order 1 per support)		**NSYBSA** + **04646** (sold in lots of 12 spacers)	
In duct: W300 Busbar supports 75 mm distance between bars	**Number of supports depending on I_{cw} (kA rms/1 s)** ≤ 15	1								
	≤ 25	1								
	≤ 30	1								
	≤ 40	1								
	≤ 50	1								
	≤ 60	1								
	≤ 65	1 + 1								
	≤ 75	1 + 1								
	≤ 85	1 + 1								
	≤ 100	-					1 + 1			
References Fixed support		**04664**					**04664** + **04671** (order 1 per support)		**04664** + **04646** (sold in lots of 12 spacers)	
References Free support		**NSYBSA**					**NSYBSA** + **04671** (order 1 per support)		**NSYBSA** + **04646** (sold in lots of 12 spacers)	
Joints		Up to 1600 A					Up to 4000 A			
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
										
		04620		**04623**			**04624**			
References (3P)		3x **04620**					3x **04621**		3x **04623**	
References (4P)		4x **04620** + **04624**					4x **04621** + **04624**		4x **04623** + **04624**	
		Reference **04624** is compulsory when installing jointed Linergy LGYE 4P busbars and must be fitted where the frames meet. When installed at the bottom of a cubicle, the busbar must be partitioned.								

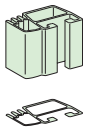
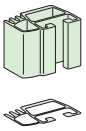
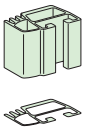
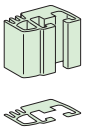
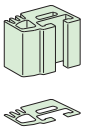
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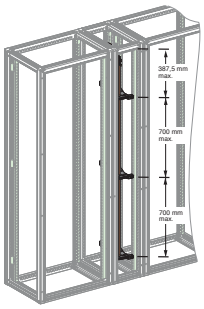
Linergy LGYE - Horizontal profiles up to 4000 A

Installation in Spacial SFP		Up to 1600 A				Up to 4000 A					
Copper bar, 2000 mm length **Note:** When installed at the bottom of a cubicle, the busbar must be partitioned.											
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ⩽ 31	800 A	1000 A	1400 A	1800 A	1800 A	2050 A	2300 A	2820 A	3300 A	3760 A
	IP > 31	750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A	2900 A	3340 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Number of busbars per phase		1	1	2	2	1	2	2	2	2	2
Total number of vertical modules (50 mm)		3									4
References		**04536**	**04538**	**04536**	**04538**	**04548**	**04545**	**04546**	**04548**	**04550**	**04552**
Busbar supports 		 Fixed support **04664**  Free support **NSYBSA** 2 fixed supports for Spacial SFP 700 wide frame are compulsory. 1 fixed support for 300/400 wide frame are compulsory. If more supports are needed, add free supports.								
In cubicle: W700 with 75 mm distance between bars	**Number of supports depending on I_{cw} (kA rms/1 s)** ≤ 15	2									
	≤ 25	2+1	2								
	≤ 30	2+1		2							
	≤ 40	2+1				2					
	≤ 50	-	2+1					2			
	≤ 60	-				2+1					
	≤ 65	-				2+1					
	≤ 75	-				2+2	2+1				
	≤ 85	-				-		2+1			
References Fixed support		**04664**				**04664**			**04664** + **04671**		
References Free support		**NSYBSA**				**NSYBSA**			**NSYBSA** + **04671**		
In duct: W300 with 75 mm distance between bars	**Number depending on I_{cw} (kA rms/1 s)** ≤ 30	1									
	≤ 50	1+1				1					
	≤ 85	-				2					
References (depending on depth) Fixed support		**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800)				**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800)			**NSYBHS500** (D500) or **NSYBHS600** (D600) or **NSYBHS800** (D800) + **04671**		
References (depending on depth) Free support		**NSYBSA**				**NSYBSA**			**NSYBSA** + **04671**		
Joints		Up to 1600 A				Up to 4000 A					
		1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase				
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Sliding joints with self-breaking lock nut		 **04640**			 **04641**						
References		**04640**	**04641**	**04640**	**04641**	**04641**	**04640**	**04640**	**04641**	**04641**	**04643**

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Linergy LGY - Lateral profiles up to 1600 A

In Spacial SFP duct		W300				
		 630 A	 800 A	 1000 A	 1250 A	 1600 A
Permissible current for an ambient temp. of 35°C around the switchboard	IP ⩽ 31	590 A	760 A	950 A	1170 A	1480 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
References		**04502**	**04503**	**04504**	**04505**	**04506**



Only for depth cubicle ≥ 500 mm



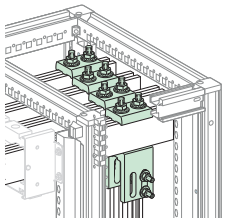

Fixed support **04651**

Note:
An end stop must be fitted on the bottom support: 01109 (sold in lots of 12)

Number depending on I_{cw} (kA rms/1 s)						
	⩽ 25	3				
	⩽ 30	-	3			
	⩽ 40	-		3		
	⩽ 50	-			4	
	⩽ 60	-			5	
	⩽ 65	-				5
	⩽ 75	-				7
	⩽ 85	-				8

References	**04651 (set of 2 upright adapters NSYSFPA for installation in Spacial SFP cubicle)**

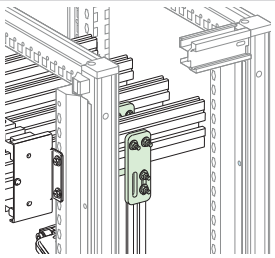
Connections to the Linergy BS horizontal busbar



Note:
Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.

References according to horizontal busbar size				
	5 mm thick		**04634**	**04635**
	10 mm thick	Width ⩽ 80 mm	**04636**	
	10 mm thick	Width > 80 mm	**04636** + **04642** **04638** + **04642**	

Connections to the Linergy LGYE horizontal busbar



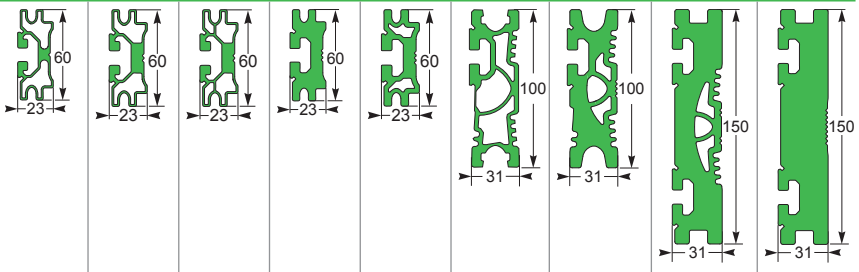
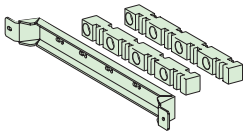
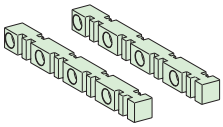
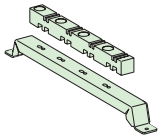
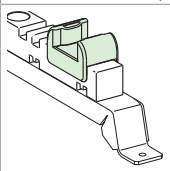
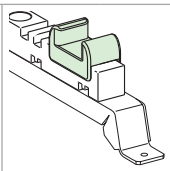
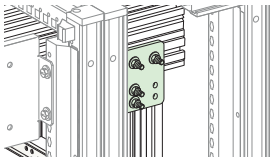
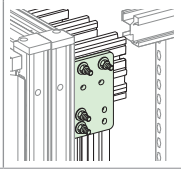
Note:
Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.

References (vertical connection)	**04602**
References (vertical shifted connection)	**04603**

(1) Dedicated connection 04603 for Linergy LGYE busbar in 150 mm duct with horizontal jointing.

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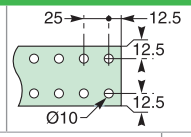
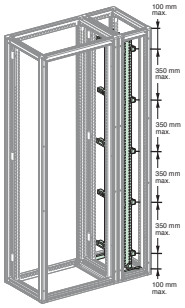
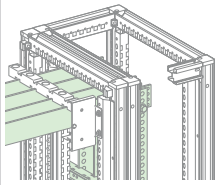
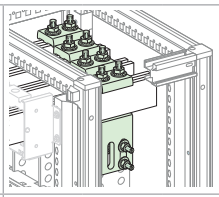
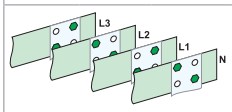
Linergy LGYE - Lateral profiles up to 4000 A

In Spacial SFP duct		W300								
Linergy profile, 2000 mm length										
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
Permissible current for an ambient temperature of 35°C around the switchboard	IP <= 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3620 A
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Length to cut for side mounting		1675 mm							1625 mm	
Number of profiles per phase		1								
Height available (mm)		150					150		200	
References		**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**	**04567**	**04568**
										
		Fixed support **NSYBVS500**			Free support **NSYBSA**			Bottom support **NSYAS500**		
		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).								
	**Number depending on I_{cw} (kA rms/1 s)**	≤ 30	3							
		≤ 40	-	3+2 *			3			
		≤ 50	-		3+2 *		3			
		≤ 60	-		3+2 *			3		
		≤ 65	-			3+2 *				
		≤ 75	-			3+4 **		3+2 *		
		≤ 85	-			3+4 **				
		≤ 100	-					3+6 ***		
References* 75 mm distance between bars	W300, D500	**NSYBVS500** (fixed) + **NSYBSA** (free) + **NSYAS500** (spacer) (1)								
References* 75 mm distance between bars	W300, D600	**NSYBVS600** (fixed) + **NSYBSA** (free) + **NSYAS600** (spacer) (1)								
References* 75 mm distance between bars	W300, D800	**NSYBVS800** (fixed) + **NSYBSA** (free) + **NSYAS800** (spacer) (1)								
References* 115 mm distance between bars	W300, D800	**NSYBVS800L** (fixed) + **04678** (free) + **NSYAS800L** (spacer) (1)								
* References of supports depending on distance between bars and duct depth		(1) If using a 100 x 10 bars, add a pack of screws ref. **04671** for each fixed support and free support.								
Wedging busbars in position										
		Wedge fitted on bottom support **04658**					Wedge fitted on bottom support **04659**			
		The bottom support is used to place profiles and ensure they are in the correct position. It is not considered to be a busbar support.								
References Bottom support		**04663**							**04666 + 04661**	
References Wedge		**04658**					**04659**			
Connections to the Linergy LGYE horizontal busbar		2000/2500 A							3200/4000 A	
										
		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.								
References (short connection)		**04604**							**04607**	
References (long connection)		**04605**								

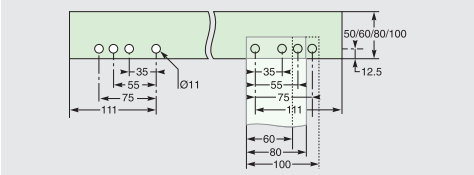
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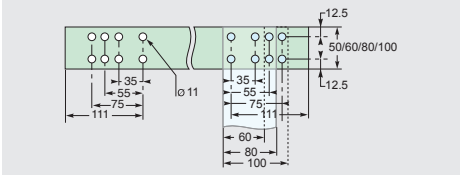
Linergy BS - Lateral flat busbars up to 3200 A

In Spacial SFP duct		W300 D500/600/800 up to 1600 A				W300 D500/600/800 up to 3200 A						
Pre-slotted copper, 1675 mm length 												
Permissible current for an ambient temp. of 35°C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3200 A
	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Number of profiles per phase		1		2		1			2			
References		**04516**	**04518**	**04516**	**04518**	**04525**	**04526**	**04528**	**04525**	**04526**	**04528**	**04550 (1)**
Busbar supports 		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.										
Number of supports depending on I_{cw} (kA rms/1 s)	≤ 15	3 *										
	≤ 25	3+2 *			3 *							
	≤ 30	3+2 *									3 *	
	≤ 40	3+4		3+2 *								
	≤ 50		3+4			3+2 *						
	≤ 60					3+4					3+2 *	
	≤ 65					3+4					3+2 *	
	≤ 75						3+6		3+4			
	≤ 85									3+4		
References* 75 mm distance betw. bars	W300, D500	**NSYBVS500** (fixed) + **NSYBSA** (free) + **NSYAS500** (spacer) (2)										
References* 75 mm distance betw. bars	W300, D600	**NSYBVS600** (fixed) + **NSYBSA** (free) + **NSYAS600** (spacer) (2)										
References* 75 mm distance betw. bars	W300, D800	**NSYBVS800** (fixed) + **NSYBSA** (free) + **NSYAS800** (spacer) (2)										
References* 115 mm distance betw. bars	W300, D800	**NSYBVS800L** (fixed) + **04678** (free) + **NSYAS800L** (spacer) (2)										
* References. of supports depending on distance between bars and duct depth		(1) Copper bar without holes. (2) If using a 100 x 10 bars, add a pack of screws ref. **04671** for each fixed support and free support.										
Connections to the Linergy BS horizontal busbar												
		For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.(3)				References **04636**, **04637**, **04638** are supplied individually: 1 connection per phase. Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.						
												
		1 bar per phase		2 bars per phase		1 bar per phase			2 bars per phase			
		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
References depending on horizontal busbar size	≤ 80 mm	**04645**				**04636**		**04637**	**04637**			**04645**
	> 80 mm	**04645**				**04636 + 04642**		**04637 + 04642**	**04637 + 04642** **04638 + 04642**			**04645**

(1) Drill hole dimensions for 5 mm thick horizontal busbars.



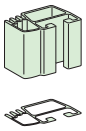
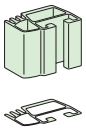
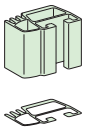
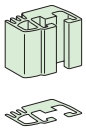
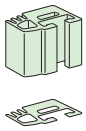
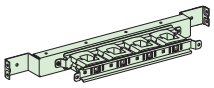
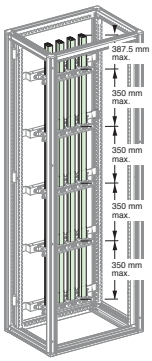
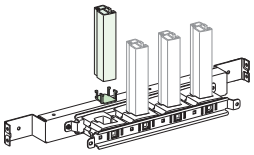
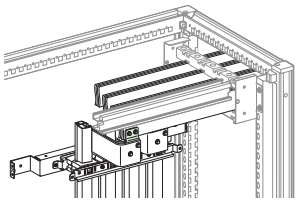
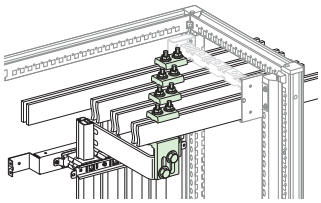
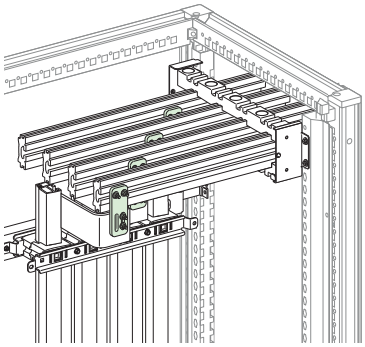
Drill hole dimensions for 10 mm thick horizontal busbars.



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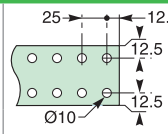
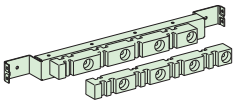
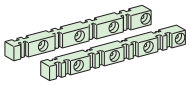
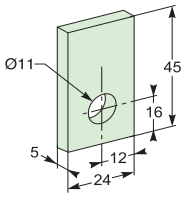
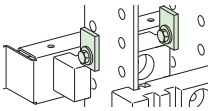
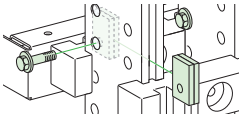
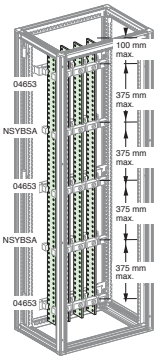
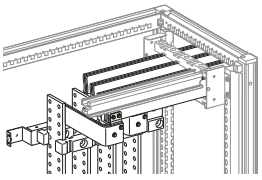
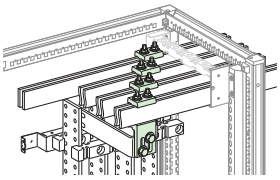
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Linergy LGYE - Rear profiles up to 1600 A

At the rear of a Spacial SFP cubicle		W700				
		 **630 A**	 **800 A**	 **1000 A**	 **1250 A**	 **1600 A**
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ⩽ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
References		**04502**	**04503**	**04504**	**04505**	**04506**
Busbar supports		 Fixed support **04652**				
	Number depending on I_{cw} (kA rms/1 s) ⩽ 25	3				
	⩽ 30		4			
	⩽ 40			5		
	⩽ 50				7	
			**Note:** An end stop must be fitted on the bottom support **01109** (sold in lots of 12)			
References		**04652**				
Connections to the Linergy BS horizontal flat busbar		 **04635** connection to 5 mm thick horizontal busbar		 **04636** connection to 10 mm thick horizontal busbar		
		Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.				
References according to horizontal busbar size	5 mm thick	**04635**				
	10 mm thick — Width ⩽ 80 mm	**04636**				
	10 mm thick — Width > 80 mm	**04636 + 04642**				
Connections to the Linergy LGYE horizontal flat busbar		 **04602** connection to the Linergy LGYE horizontal flat busbar				
		Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.				
References		**04602**				

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Linergy BS - Rear flat busbars up to 1600 A

At the rear of a Spacial SFP cubicle		W700					
Pre-slotted copper, 1670 mm length		**800 A**	**1000 A**	**1400 A**	**1000 A**	**1200 A**	**1600 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ⩽ 31	800 A	1000 A	1400 A	-	-	-
	IP > 31	750 A	900 A	1250 A	1080 A	1250 A	1600 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2	1		
References		**04516**	**04518**	**04516**	**04525**	**04526**	**04528**
Busbar supports		 Fixed busbar support **04653**		 Busbar free support **NSYBSA**		 Mounting chocks **04669**	
		3 fixed supports ref. **04653** are compulsory to keep the busbar vertical. If more than 3 supports are needed, use free support ref. **NSYBSA** (in addition). Metal shim ref. **04669** (sold in lots of 100), 5 mm thick, is screwed onto the busbar. It rests on a fixed support and is used to wedge the busbar in position.					
							
		Wedging: 1 busbar/phase					
							
		Wedging: 2 busbars/phase					
	**Number depending on I_{cw} (kA rms/1 s)**	⩽ 15	3			3	
		⩽ 25	3+2			3	
		⩽ 30	3+2			3+2	
		⩽ 40	3+4	3+2		3+2	
		⩽ 50		3+4		3+2	
		⩽ 60				3+4	
		⩽ 65				3+4	
		⩽ 75					3+6
		⩽ 85					
References		**04653** (fixed) + **NSYBSA** (free) + **04669** (spacer)					
Connections to the Linergy BS horizontal flat busbar		 **04635** connection to horizontal busbar 5 mm thick			 **04636** connection to horizontal busbar 10 mm thick		
		For part of the connection, flexible insulated busbars are needed. References **04635**, **04636** are supplied individually = 1 connection per phase. Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.					
References according to horizontal busbar size	5 mm thick		**04635**				
	10 mm thick	Width ⩽ 80 mm	**04636** (1)				
	10 mm thick	Width > 80 mm	**04636** + **04642** (1)				
		(1) To be made.					

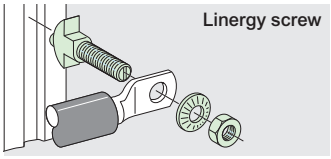
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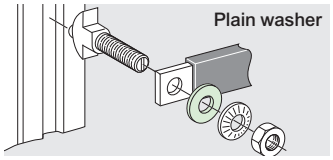
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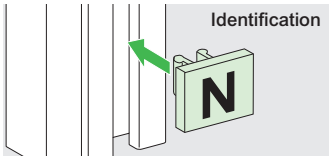
Linergy LGYE - Accessories

Linergy screw

- Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.

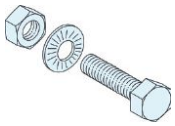






Characteristics		AD	References
Steel plain washers	M8 sold in lots of 20	20 mm	**04772**
	M8 sold in lots of 20	24 mm	**04773**
	M8 sold in lots of 20	28 mm	**04774**
Brass plain washers	M8 sold in lots of 20 for connection of ≤ 25 mm² lugs to Linergy	20 mm	**04775**
Identification	12 clip-on supports + N, L1, L2, L3, PE, PEN labels		**04794**
	Linergy LGYE busbar screw plate kit after sales service		**01130**

M8 bolts


04782

- Set of 20 bolts + 20 nuts + 40 contact washers.

Characteristics	References
Linergy BS, 20 bolts 8.8 class, M8 x 20	**04782**
Linergy BS, 20 bolts 8.8 class, M8 x 25	**04783**
Linergy BS, 20 bolts 8.8 class, M8 x 30	**04784**
Linergy BS, 20 bolts 8.8 class, M8 x 35	**04785**
Linergy BS, 20 bolts 8.8 class, M8 x 40	**04786**
Linergy BS, 20 bolts 8.8 class, M8 x 45	**04787**
Linergy BS, 20 bolts 8.8 class, M8 x 50	**04788**

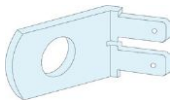
Torque nuts


04759

- Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.

Characteristics	References
20 M8 torque nuts	**04759**

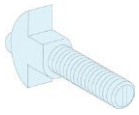
Voltage tap-offs


04229

- For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (ref. **04775**) between the busbar and the lug.

Characteristics	References
20 M10 voltage tap-offs for two 6.35 mm tab connectors	**04229**

Connections on Linergy LGYE and LGY


04766


04768

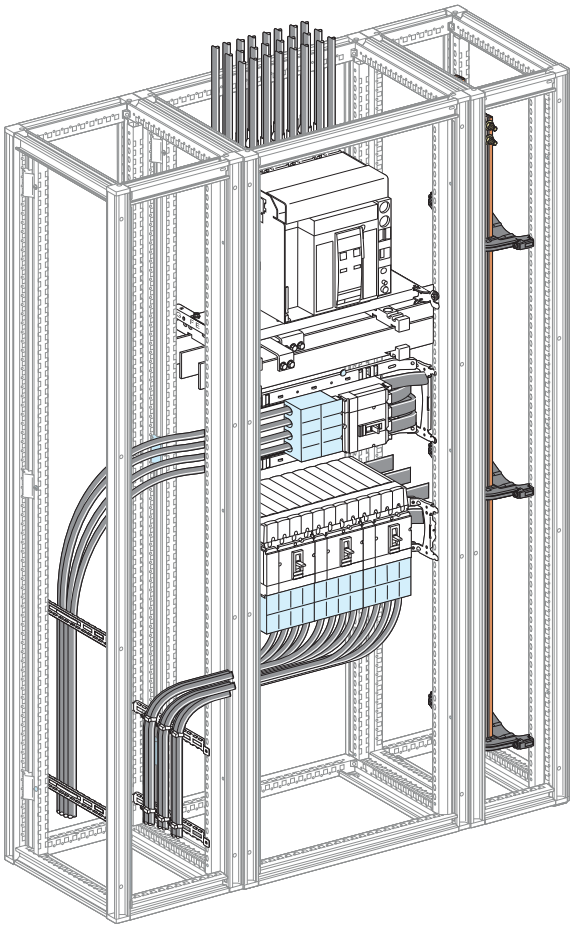

04769

Characteristics	InA	bar	Utilisation	References
Use the 25 mm Linergy screw	0 A to 630 A	Cable Insulated flexible bar	Recommended	**04766**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	0 A to 630 A	Cable Insulated flexible bar	Possible	**04767**
Use the 25 mm Linergy screw	800 A to 1250 A	5 mm thick bar	Recommended	**04766**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	800 A to 1250 A	5 mm thick bar	Possible	**04767**
Use the flat plate screw with 2 studs	800 A to 1250 A	5 mm thick bar	Possible	**04768**
Use the flat plate screw with 2 studs	1600 A to 2500 A	5 or 10 mm thick bar	Recommended	**04768**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	1600 A to 2500 A	5 or 10 mm thick bar	Possible	**04767**
Use the flat plate screw with 3 studs	3200 A to 4000 A	10 mm thick bar	Recommended	**04769**

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Form 1 partitioning

Presentation:
Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.



The protection of life and property is ensured by the systematic installation of terminal shields on Compact NSX circuit breakers and on Compact INS and INV switch-disconnectors (see the pages on the functional units).

IIn most installations, Spacial SFP cubicles do not require partitioning. In this case, the switchboard is a Form 1. Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

The protection of life and property is a standard feature due to:
- front plates that require a tool to be removed
- keylocks on doors, some of which provide access to live parts
- the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors.

What is more, Spacial SFP offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a and 4b electrical switchboards.

Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-2.

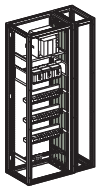
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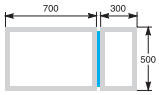
Form 2b partitioning

Note:
when the busbars are at the bottom of the cubicle, gland plates are mandatory.

Separation of busbars from the functional units:
- protection against contact with live parts upstream of the outgoing circuits
- protection against penetration of foreign solid bodies.

Lateral partitioning; Form 2 restoration for side-barrier cut-out

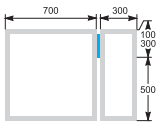

06545



Characteristics	References
Lateral partitioning • Vertical barrier made of insulating slats. • Can be installed on both sides of Linergy and flat busbars. • The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm², while maintaining the degree of protection IP2X compliance with standard IEC 60695.2.1 concerning withstand to fire.	**06545**
Form 2 restoration for side-barrier cut-out • This kit enables passage of the connection between a device > 1600 A (NW, INS) and lateral vertical busbars. • It is made up of an insulated plate (six modules H 300 mm) that can be cut as required, supplied with supports and the necessary hardware.	**04924**

Partitioning extension

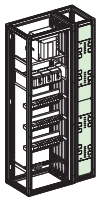

06541

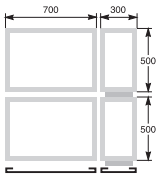


• For the Spacial SFP system switchboards 600 and 800 mm depth, a partitioning extension is required.

Characteristics	References
D600	**06541**
D800	**06543**

Front and rear barrier


06540

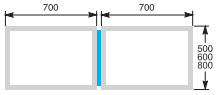


Characteristics	References
• Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends. • Rear protection, a barrier is required at the rear of the busbar compartment in cubicles that are 800, 1000 and 1300 mm deep.	**06540**

Inter-cubicle partitioning


06555

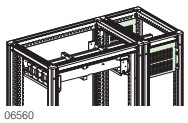
• Metal partition, used to separate two adjacent cubicles.
• It is made up of two panels, each 850 mm high.
• The top and bottom ends have knock-outs for horizontal busbars.
• Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.

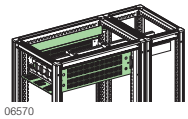


Characteristics	References
D500	**06555**
D600	**06555 + 06541**
D800	**06555 + 06543**

Partitioning of horizontal busbars

• Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.
• The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle.
• The space required for the busbars is not increased.


06560

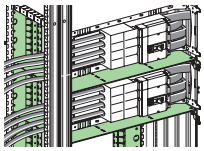

06570

Characteristics	References
3M-busbar, W300, D500	**06560**
3M-busbar, W300, D600	**06561**
3M-busbar, W300, D800	**06563**
4M-busbar, W300, D500 or D600 or D800	**06568**
3M-busbar, W700, D500 or D600 or D800	**06570**
4M-busbar, W700, D500 or D600 or D800	**06567**

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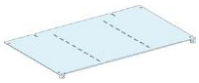
Form 3b partitioning

Separation of busbars from the functional units and separation of all functional units from one another.
Separation of the terminals for external conductors from the functional units, but not from each other.
- protection against contact with live parts
- reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).



Front connection

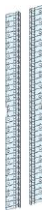
- A horizontal metal partition can be used to physically separat functional units from one another.


04901

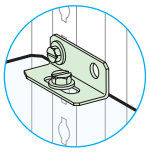
Characteristics	References
Horizontal metal partition, W650 mm	**04901**

Front connection

- It is fixed at the rear by a support (two uprights) secured to the framework (500 mm deep) or to the intermediate uprights (800 mm deep frameworks).

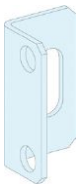

04943

Characteristics	References
Rear support for partitions, W650 mm	**04943**

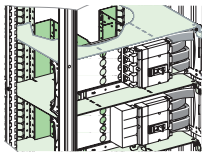


Front connection

- A set of brackets can be used to install partial Form 3 partitioning in the cubicle.
- It does not take up any useful space in the switchboard.

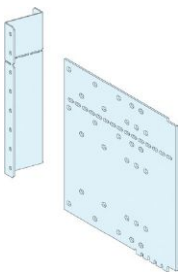

03583

Characteristics	References
6 universal angle brackets	**03583**



Rear connection

- Vertical partitions (two cat. no. per functional unit)


04955

Characteristics	References
3 to 4 modules	**04955**
5 to 6 modules	**04956**

11

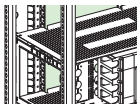
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Form 4 partitioning

Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit.

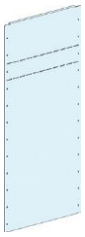
- Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
- Form 4a: Terminal for external conductors in the same compartment as the associated.
- Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Form 4a partition for front connection



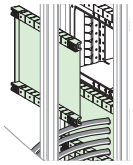
- a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 500 mm deep frameworks.

Characteristics	References
Form 4a backplate (one cat. no. per cubicle)	**04946**



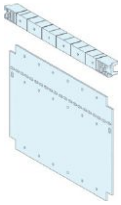
04946

Form 4a gland plate



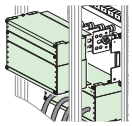
- a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.

Characteristics	References
3 or 4 modules	**04951**
5 or 6 modules	**04952**



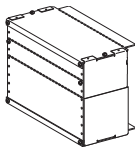
04951

Form 4b partition



- a cover with metallic gland plates that can be easily cut out on the side and bottom. It is available in two heights:

Characteristics	References
3 to 5 modules	**06600**
4 to 6 modules	**06601**

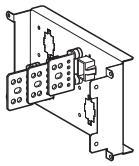


06600

Connection transfer assembly,3 to 5 modules, 250 A

- transfert assembly without connection to simplyfied the cable installation.

Characteristics	References
3P	**06606**
4P	**06607**

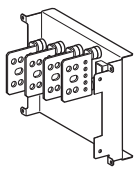


06606

Connection transfer assembly, 4 to 6 modules, 630 A

- transfert assembly without connection to simplyfied the cable installation.

Characteristics	References
3P	**06604**
4P	**06605**



06604

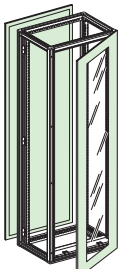
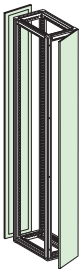
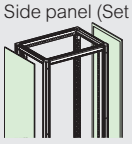
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Prisma functional system Selection guide

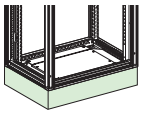
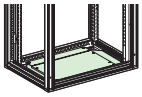
Common characteristics

- Roof characteristics:
  - equipped with a factory-mounted polyurethane (PUR) gasket
  - supplied with mounting hardware
  - with markings for clear identification of cable-running zones
- The cables compartment can be mounted on the right or left.
- Can be combined side-by-side or back-to-back.
- Receive the IP55 cover panels.

Mounting	W700			W300		
						
Depth	**D500**	**D600**	**D800**	**D500***	**D600**	**D800**
Assembled enclosures H2000 Plain door	**NSYSFP20750**	**NSYSFP20760**	**NSYSFP20780**	**NSYSF20350**	**NSYSF20360**	**NSYSF20380**
Assembled enclosures H2000 Glazed door	**NSYSFP20750T**	**NSYSFP20760T**	**NSYSFP20780T**	-	-	-
Adapter uprights for busbar installation in vertical on Linergy LGY 	-	-	-	**NSYSFPA**	**NSYSFPA + NSYSUCR40200**	**NSYSFPA + NSYSUCR40200**
Side panel (Set of 2)** 	**NSY2SP205**	**NSY2SP206**	**NSY2SP208**	**NSY2SP205**	**NSY2SP206**	**NSY2SP208**
Hinged front plate support frame*** 	**08566**	**08566**	**08566**	-	-	-

* For cables and to install Linergy LGYE, BS busbar.
** An earthing braid must be installed between the lateral panels and the frame.
*** Reversible for left or right-hand opening.

Accessories

Width			W700			W300		
Depth			**D500**	**D600**	**D800**	**D500**	**D600**	**D800**
	Plinth H100*	Front and rear cross-pieces	**NSYSPF7100**	**NSYSPF7100**	**NSYSPF7100**	**NSYSPF3100**	**NSYSPF3100**	**NSYSPF3100**
		Lateral cross-pieces	**NSYSPS5100**	**NSYSPS6100**	**NSYSPS8100**	**NSYSPS5100**	**NSYSPS6100**	**NSYSPS8100**
	Plinth H200*	Front and rear cross-pieces	**NSYSPF7200**	**NSYSPF7200**	**NSYSPF7200**	**NSYSPF3200**	**NSYSPF3200**	**NSYSPF3200**
		Lateral cross-pieces	**NSYSPS5200**	**NSYSPS6200**	**NSYSPS8200**	**NSYSPS5200**	**NSYSPS6200**	**NSYSPS8200**
	1 entrie gland-plates		**NSYEC751**	**NSYEC761**	**NSYEC781**	**NSYEC351**	**NSYEC651**	**NSYEC381**

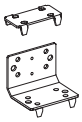
* The plinth is made up of two catalogue numbers: Front and rear cross-pieces + lateral cross-pieces.

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Life Is On Schneider Electric

Coupling kit

- side-by-side combination
- back-to-back combination: - D500+D500, D800+D500
- Back to back association must be shipped individually and combined during on-site installation


NSYSFBK19

Characteristics	References
Spacial SF coupling kit for SF enclosures equipped with swinging 19" rack, IP55	**NSYSFBK19**

4 lifting rings

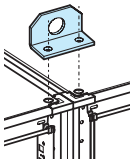
- Use a set of lifting rings for each framework for one framework (W700 mm) containing devices


NSYSFEB

Characteristics	References
Spacial SF M12 lifting eyebolt, galvanized cast steel	**NSYSFEB**

4 lifting brackets

- When two cubicles with devices have been combined, use a lifting beam.


NSYSFELB

Characteristics	References
Set of 4 Spacial SF lifting bracket, zinc coated steel	**NSYSFELB**

Set of 20 screws + M6 nuts


06461

Characteristics	References
20 Screws et nuts M6	**06461**

Earthing wire, 6 mm²

The wire is equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other.
The earthing wire is used to earth:

- a door or wicket door with devices
- a front-plate support frame equipped with switchgear in a cubicle.


08911

Characteristics	References
Earthing Wire 6 mm	**08911**

Earthing braid

- An earthing braid must be installed between the roof and the frame.
- For **NSYEL166D8**: Length 160 mm, Section 6 mm², Terminal 8.3 mm.
- For **NSYEL3525D8**: Length 350 mm, Section 25 mm², Terminal 8.3 mm.


NSYEL166D8

Characteristics	References
Earth leads section 6 mm², length 160 mm	**NSYEL166D8**
Earth leads section 25 mm², length 350 mm	**NSYEL3525D8**

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Seismic application 3G withstand

Note:
incoming by pre-frabricated bus-bar truncking is forbidden for seismic application.

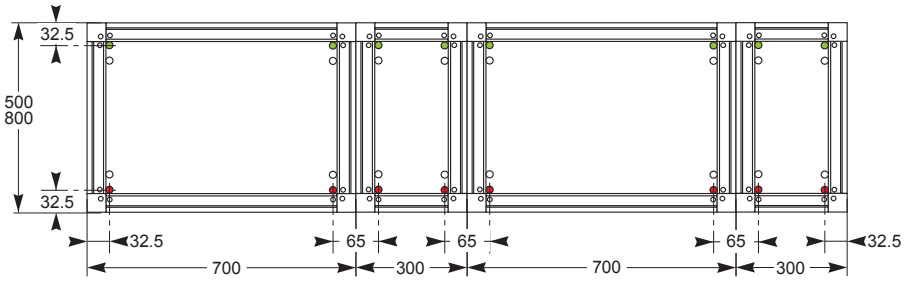
Seismic plinth H100 mm

1600 A configuration *	Height (mm)	Width (mm)	Depth (mm)	References
Spacial SFP	2000	700	350	**NSYS5GPC75**
Busbar duct	2000	300	350	**NSYS5GPC35**
configuration 3200 A	Height (mm)	Width (mm)	Depth (mm)	References
Spacial SFP	2000	700	450	**NSYS5GPC78**
Busbar duct	2000	800	450	**NSYS5GPC38**

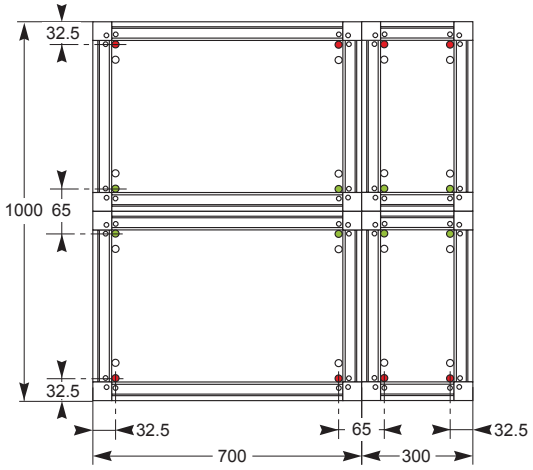
* Not compatible for depth 600 mm.

Ground fastening

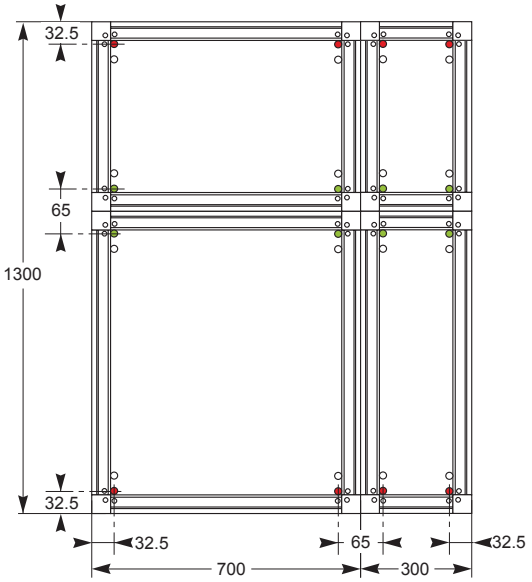
Front connection
(example: Device cubicle W700 mm + compartment W300 mm)



Rear connection D1000
(example: Device cubicle + compartment D500 + D500 mm)



Rear connection D1300
(example: Device cubicle + compartment D800 + D500 mm)



● compulsory fixing point
● optional fixing point

8.8-class screws: Screw M10 TH
+ washers (external Ø 25 mm, thickness 3 mm)
+ CS contact washers Ø 10 mm.

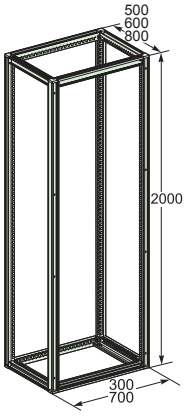
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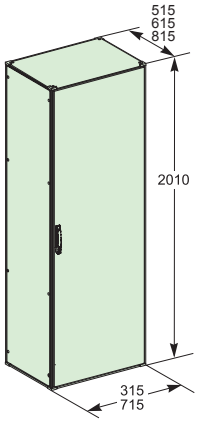
Prisma functional system Dimensions

Cubicles

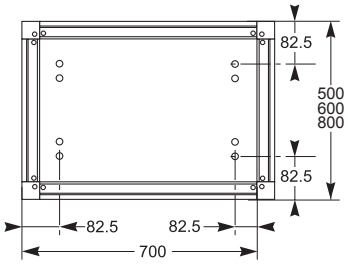
Profile



Cover panels, plain or transparent door, lateral panel

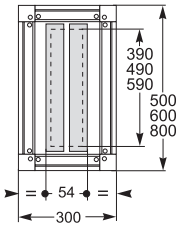


Standard plinth

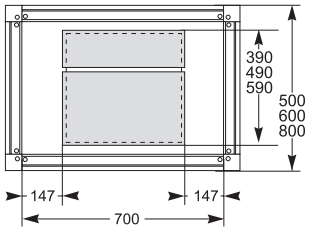


Gland plates

W300

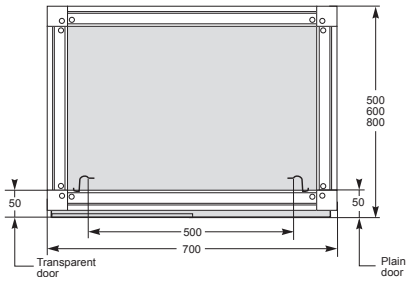


W700



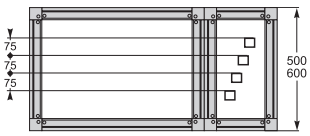
Functional system in Spacial SFP switchboards, cubicle mounting

D500, D600, D800

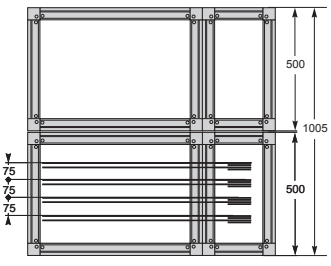


Ground fastening, Busbars mounting, Lateral vertical busbars

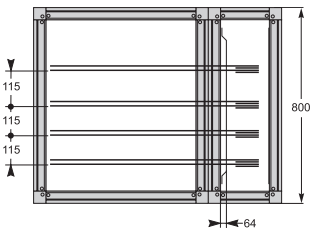
1600 A



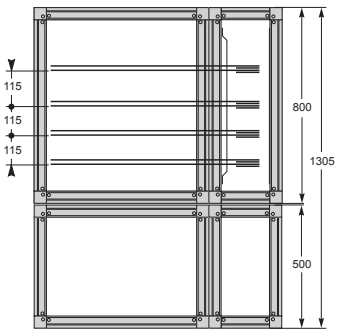
2000 A



2500 A



3200 A



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Compartmentalised enclosure for Motor Control Centres

SFM

Fixed compartmentalised swithchboards for Motor Control Centres

The Spacial SFM compartmentalised functional fixed system can be used for motor control centres in industrial environments (IP54).
It has been tested taking into account device characteristics.
This ensures a high degree of reliability in system operation and optimum safety.
Devices can be mounted on universal mounting plates on a workcut-out to simplify installation in the switchboard.



Fixed functional system for Motor Control

The fixed functional system for Motor Control Centres is designed for installation of motor starters up to 250 kW.

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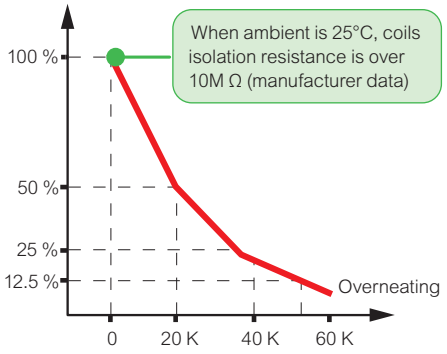
Motor protection

In addition to the motor power and the starter type (direct, reversing, star-delta…), 4 main criteria have to be taken into account when choosing a motor starter:
- the operational voltage,
- the type of thermal protection, electro-mechanical or electronical,
- the type of magnetic protection, according to the switchboard's Isc,
- the type of installation, according to the required availability level.

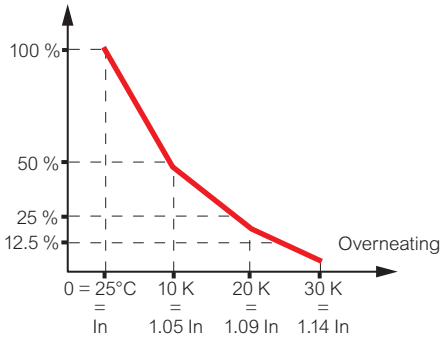
Operational voltage

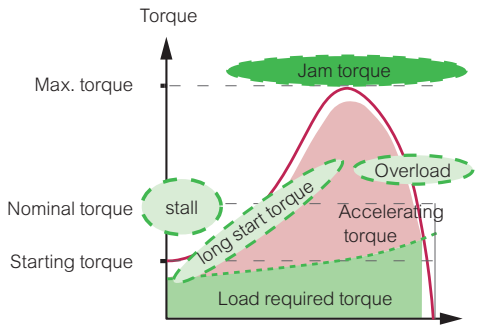
Network's operational voltage is a decisive parameter in the choice of motor protection. Indeed, the operational voltage will have an impact on the device's performances and the installation constraints.
For instance, the voltage will influence:
- the breaking performances,
- the safety areas.

Isolation capacity



Lifetime





Motor protection

Protecting the motors to extend their lifetime
- Overheating in electrical motors is caused by copper and ferro-magnetic losses:
  - the current I is proportional to the motor's load. Copper losses are proportional to I² (stator and rotor),
  - hysteresis cycles in ferro-magnetic materials and the induced Foucault currents cause overheating, which is in particular proportional to frequency.
- The consequence of abnormal overheatings is a reduced isolation capacity of the materials, thus leading to a significant shortening of the motor lifetime, as shown in the opposite diagram.
- In continuous or semi-continuous processes, availability is a major issue. It is therefore decisive to observe accurately the operating conditions of the motors.
- Motor protection relays are the components dedicated to this task. They provide various levels of accuracy and functionalities, in order to meet the expectations of the process manager.

Supervising finely the motors to improve process availability
- An electrical motor transforms electrical energy in mechanical energy. When the voltage, current and frequency change, the speed and torque of the motor change too. And conversely, any changes in charge have a direct impact on the electrical parameters.
- Electromechanical thermal relays protect the motor against overloads.
- Electronical relays protect the motor against overloads, on the basis of very sophisticated and highly accurate thermal patterns.
  - These relays are able to make out several cases of motor overload, and to transmit the information, thus allowing the operator to have a better understanding of the true nature of the problem,
  - These relays report for many complementary parameters, providing useful informations to the operator, therefore giving him the opportunity to avoid motor stops, or to re-start quickly if a stop has occurred.

Examples:
- motor under-load can be the signal of a pump cavitation,
- phase inversion can be the indication of a maintenance error, that should be hard to diagnose without that sign.
  - In addition to the observation of currents, the electronical relays can monitor the voltage, and consequently the power and the power factor. They can also watch the leakage currents and measure the actual coil temperature whenever it has a built-in sensor. All these informations give an additional level of anticipation and shrewdness to help coping with problems.
  - Finally, electronical relays can take on information-processing functions, like state and faults statistics. They are also able to suggest logical solutions, and to react in a process-specific way.

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Motor protection

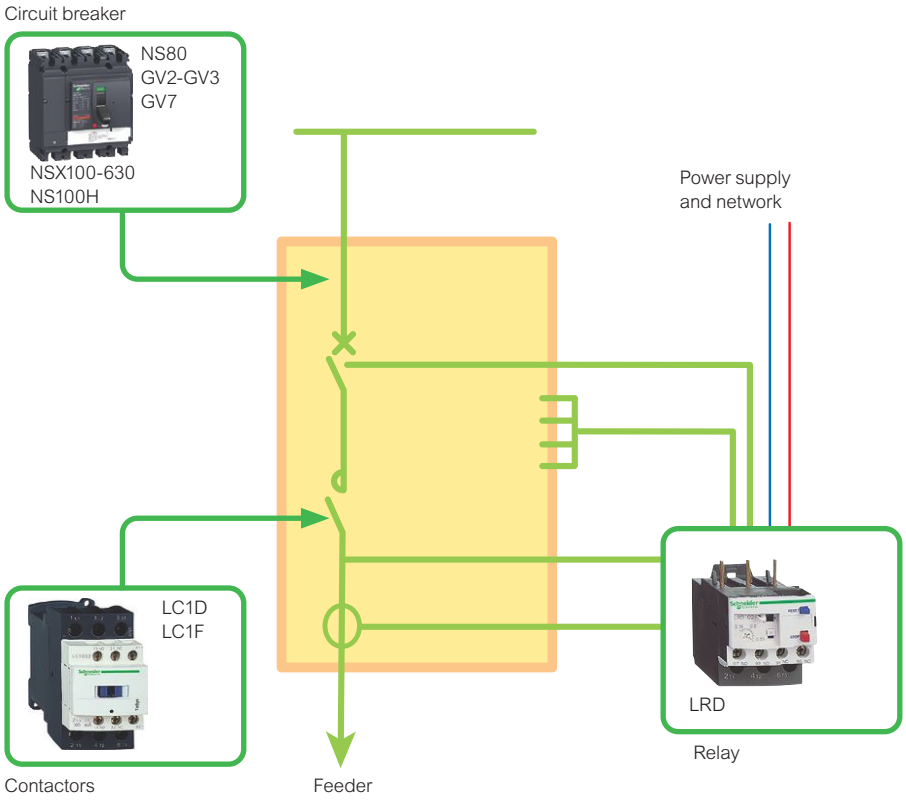
Magnetic protection: Circuit-breakers and fuses

Schneider Electric have chosen to put forward circuit-breakers each time it is possible, as they have advantages in terms of maintenance and capacity of quick re-operating.

The advantages of magnetic circuit breakers over fuses are listed below:

- universal solution that can be exported to all countries, unlike the fuses, which standards are not coordinated,
- reduced dimensions,
- limited temperature rise,
- faster maintenance,
- no risk of over-rating the fuse cartridge (causing the motor destruction) or underrating (untimely tripping).

Spacial SFM: A combination for control motor starter

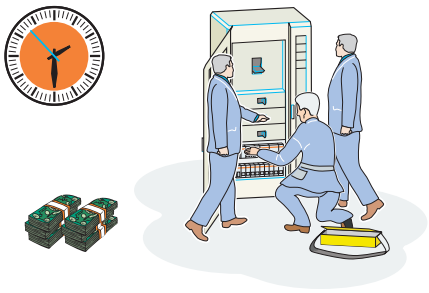


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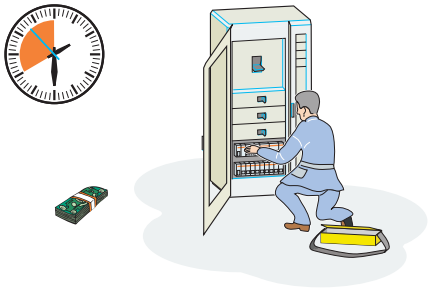
Life Is On Schneider Electric

Coordination

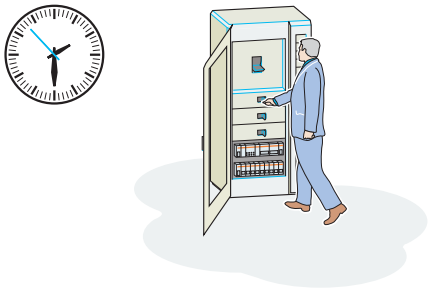
Type 1 coordination



Type 2 coordination



Total coordination



Coordination, what is it about?

A "motor starter" can be made up of 1, 2, or 3 different devices. They have to be coordinated in a way they ensure an optimal operation of the installation.

Aims of coordination

In case of a fault, the coordination's purposes are:

- to protect of the people and the equipment,
- to permit continuity of service,
- to reduce maintenance costs (manpower and replacement equipment).

Types of coordination as per IEC 60947-4-1

- Type 1 coordination: Basic solution
  - no continuity of service,
  - important maintenance costs in case of a fault (manpower and equipment).
- Type 2 coordination: Solution ensuring continuity of service
  - reduced machine shutdown time,
  - reduced cost of replacement equipment.
- Total coordination: Withdrawable solutions as per IEC 60947-6-2:
  - no damage nor resetting of devices following a fault,
  - installation immediate return to operation.

Schneider Electric's choice as regards coordination

For applications in Spacial SFM high availability switchboard, Schneider Electric has accepted:

> type 2 coordination on grounds of:

- a low cost for repairing the equipment,
- a reduced machine shutdown time,

and dismissed:

> type 1 coordination and non-coordoned feeders because of:

- an expensive return to operation,
- a long machine shutdown time.

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Motor starter solutions



2-component motor starter

Thermomagnetic circuit-breaker + contactor

Advantages

- Very economic solutions.
- Suitable for all types of diagrams.
- Manual reset following a thermal fault.
- Type 2 coordination.

Applications

- Manufacturing and continuous and semi-continuous processes.



3-component motor starter

Advantages

- Wide choice of solutions.
- Suitable for all types of diagrams.
- Manual or automatic reset following a thermal fault.
- 2 starting classes (10 and 20).
- Type 2 coordination.
- Segregation of thermal and magnetic faults.

Magnetic circuit-breaker + contactor + thermal protection

- For manufacturing and continuous and semi-continuous processes.

Switch-disconnector fuse + contactor + thermal protection

- For all types of machines.
- For manufacturing and continuous and semi-continuous processes.

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Presentation

The Spacial SFM compartmentalised enclosures system used for MCC are based on the Spacial SF range.
They offer the same functions:

- Different possible configurations, combined side-by-side or back-to-back.
- The built-in partial doors and panels design allow to meet the required degree of protection.

And the same advantages:

- Save time through all assembly phases.
- Enclosure robustness.

Modularity and Versatility

They offer 36 vertical modules, each 50 mm high, of useful space.
They have 4 different enclosure dimensions and 2 additional chambers for distribution busbars or cabling management. They can also be coupled with Spacial SFP for power distribution switchboards.



The functional system

A metal structure

The switchboard is made up of one or more frameworks combined side-by-side or back-to-back, on which a complete selection of cover panels and partial doors can be mounted.
They are used to build IP54 configurations and see ClimaSys offer options for ventilation.
Electrical continuity is achieved using earthing braids.
Plain partial doors are reversible for quick left or right-hand mounting by a single person, 120° opening.
The robustness of the locking system allows naturally the good alingment of the assembly. From 1 to 4 locking points system with 5 mm double bar insert as standard supply with possibility to replace it by other shape insert.

A distribution system

Vertical busbars positioned in a lateral compartment and horizontal busbars are used to distribute electricity throughout the switchboard.

Complete functional units

The functional unit need to be composed by:

- motor control and protection devices,
- a dedicated plain mounting plate for device installation,
- up to form 4b thanks to the gland boxes for the terminal isolation on the back of the switchboard or on the side of the cabling chamber,
- devices for on-site connections.

The functional units are modular and designed for installation one on top of another. The system includes everything required for functional unit mounting, supply and onsite connection. The components of the Spacial SFM compartmentalised system and those of the functional units in particular have been designed and tested taking into account device characteristics. This design approach ensures a high degree of reliability in system operation and optimum safety for personnel. Electrical switchboards built using Schneider Electric recommendations fully comply with international standard IEC 61439-2 and IEC 62208.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Enclosures



Withstand to the most demanding environements

- IP54 degree of protection for the dusty and/or damp industrial environments.
- Seismic withstand.
- Optional forced ventilation for environments with ambient temperatures hotter than 45°C or for devices sith considerable heat loss (see ClimaSys offer options).

Type tested

Spacial SFM compartmentalised is totally type-tested in accordance with IEC 61439-2.

- Certified by independant lab.
- As well as by a permanent control in Schneider Electric test laboratories.

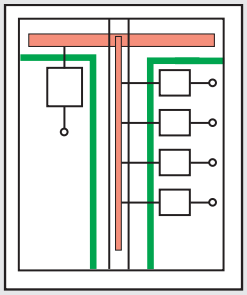
Type-tests are carried out:

- temperature-rise limit,
- dielectric properties,
- short-circuit withstand,
- effectiveness of the protective circuit,
- conformity of the clearance and creepage distances,
- mechanical operation,
- degree of protection.

Partitioning

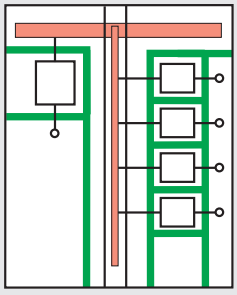
Partitioning is essential to ensure the utmost protection of the installation and personnel carrying out work in the switchboard.
Used in conjunction with the standard protection (terminal shields, factory-built connections), partitioning prevents any direct contact with live parts.

Form 2b



- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

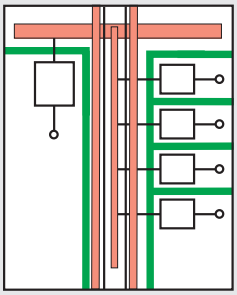
Form 3b



Separation of busbars from the functional units and separation of all functional units from one another. Separation of the terminals for external conductors from the functional units, but not from each other.

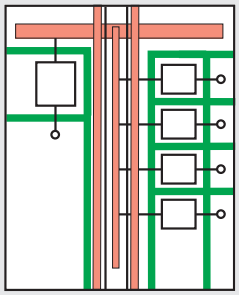
- Protection against contact with live parts.
- Reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

Form 4a



Terminals for external conductors in the same compartment as the associated functional unit.

Form 4b



Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Fix enclosures



General data	
Applications	MCC
Standards	IEC 61439-2
Internal	No
Seismic	3G
Installation	Indoor

Mechanical data	
Cable inlet	Top / Bottom
Access	Front / Rear Side
IP	54
IK	10
Form	4b type 7
Withdrability	FFF
Dimensions	H 2000 / W 600 and 800 / D 600 and 800
Color	RAL 7035 grey

Electrical data	
Insulation voltage (Ui)	1000 V
Voltage rating(Ue)	415 V
Coordination	Type 2
Frequency	50/60 Hz
Auxiliary circuit voltage	230 V
Degree of pollution	3
Rated current (IP>31)	2500 A (with Copper and Linergy)
Short circuit (I_{cw} - 1s)	85 kA

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Mounting plates for fixed MCC switchboards

Motor control functional units

The plain mounting plates can be used to install all the devices making up an MCC motor starter on a single support.

Easy installation

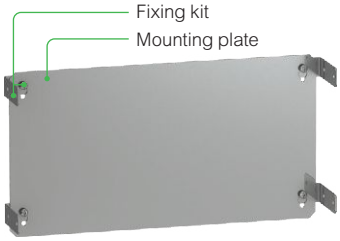
Motor feeders can be prepared on a bench making the cut-outs needed. The quick fixing system allows to hold the mounting plate during device installation and wiring. The mounting plate can be fixed on the side partitions in adjustable depth with a pitch of 50 mm.

Switchboard upgradeability

- Functional units with form partitioning 3b and 4b.
- Sides and Rear accessibility.
- Separation panels with pre-cuts for cable glands ref. **01215**.

Functional unit reliability

- 3 to 24 module (150 to 1200 mm) mounting plates are installed in 600 and 800 mm wide cubicles.
- Capacity of Spacial SFM cubicles: 36 modules (50 mm each).
- Cables are run in dedicated 300 or 400 mm wide lateral compartments.



Plain mounting plates

Dimension of the compartment				
Number of modules	Height (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
3M	150	800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
4M	200	800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
5M	250	800	**NSYMP5M8**	
6M	300	600	**NSYMP6M6**	
6M	300	800	**NSYMP6M8**	
8M	400	600	**NSYMP8M6**	
8M	400	800	**NSYMP8M8**	
9M	450	600	**NSYMP9M6**	
9M	450	800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
12M	600	800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
16M	800	800	**NSYMP16M8**	
18M	900	600	**NSYMP18M6**	
18M	900	800	**NSYMP18M8**	
20M	1000	600	**NSYMP20M6**	
20M	1000	800	**NSYMP20M8**	
24M	1200	600	**NSYMP24M6**	
24M	1200	800	**NSYMP24M8**	

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2-component motor starter

2-component motor starter Direct on line and reversing GV2, GV3 and GV7

Selection of recommended combinations

GV2							
Iq (kA)		Motor characteristics		Motor starter solution		Mounting plate Number of modules (1M = 50 mm)	
Without limiter	With GV1L3	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor (1)	DOL	Reversing
85	-	0.18	0.6	GV2-P04	LC1D09	3M	3M
85	-	0.25	0.9	GV2-P05	LC1D09	3M	3M
85	-	0.37	1.1	GV2-P06	LC1D09	3M	3M
85	-	0.55	1.5	GV2-P06	LC1D09	3M	3M
85	-	0.75	1.8	GV2-P07	LC1D09	3M	3M
85	-	1.1	2.6	GV2-P08	LC1D09	3M	3M
85	-	1.5	3.4	GV2-P08	LC1D09	3M	3M
85	-	2.2	4.8	GV2-P10	LC1D09	3M	3M
85	-	3	6.5	GV2-P14	LC1D09	3M	3M
85	-	4	8.2	GV2-P14	LC1D18	3M	3M
50	85	5.5	11	GV2-P16	LC1D25	3M	3M
50	85	7.5	14	GV2-P20	LC1D25	3M	3M
50	85	10	19	GV2-P21	LC1D32	3M	3M
50	85	11	21	GV2-P22	LC1D32	3M	3M
50	85	15	28	GV2-P32	LC1D32	3M	3M
50	-	18.5	34	GV3-P40	LC1D50A	3M	4M
50	-	22	40	GV3-P50	LC1D50A	3M	4M
50	-	30	55	GV3-P65	LC1D65	3M	4M
70	-	15	28	GV7-RS40	LC1D40	3M	6M
70	-	18.5	34	GV7-RS40	LC1D50	3M	6M
70	-	22	40	GV7-RS50	LC1D80	3M	6M
70	-	30	55	GV7-RS80	LC1D80	3M	6M
70	-	37	66	GV7-RS80	LC1D80	3M	6M
70	-	45	80	GV7-RS100	LC1D115	4M	9M
70	-	55	100	GV7-RS150	LC1D150	6M	9M
70	-	75	135	GV7-RS150	LC1F185	9M	12M
70	-	90	160	GV7-RS220	LC1F225	9M	12M
70	-	110	200	GV7-RS220	LC1F265	9M	12M

(1) 2xLC1-D for reversing

Plain mounting plates

Dimension of the compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
3M	150	800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
4M	200	800	**NSYMP4M8**	
6M	300	600	**NSYMP6M6**	
6M	300	800	**NSYMP6M8**	
9M	450	600	**NSYMP9M6**	
9M	450	800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
12M	600	800	**NSYMP12M8**	

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3-component motor starter

3-component motor starter Direct on line and reversing GV2 and GV3

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)	
Without limiter	With LA9LB920	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor (1)	Thermal relay	DOL	Reversing
85	-	0.18	0.6	GV2-L04	LC1D09	LRD04	3M	3M
85	-	0.25	0.9	GV2-L05	LC1D09	LRD05	3M	3M
85	-	0.37	1.1	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.55	1.5	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.75	1.8	GV2-L07	LC1D09	LRD07	3M	3M
85	-	1.1	2.6	GV2-L08	LC1D09	LRD08	3M	3M
85	-	1.5	3.4	GV2-L08	LC1D09	LRD08	3M	3M
85	-	2.2	4.8	GV2-L10	LC1D09	LRD10	3M	3M
85	-	3	6.5	GV2-L14	LC1D09	LRD12	3M	3M
85	-	4	8.2	GV2-L14	LC1D18	LRD14	3M	3M
50	85	5.5	11	GV2-L16	LC1D25	LRD16	3M	3M
50	85	7.5	14	GV2-L20	LC1D25	LRD21	3M	3M
50	85	10	19	GV2-L21	LC1D32	LRD22	3M	3M
50	85	11	21	GV2-L22	LC1D32	LRD22	3M	3M
50	85	13	24	GV2-L32	LC1D32	LRD32	3M	3M
50	-	18.5	34	GV3-L40	LC1D50A	LRD340	3M	4M
50	-	22	40	GV3-L50	LC1D50A	LRD350	3M	4M
50	-	26	49	GV3-L65	LC1D65A	LRD365	3M	4M

(1) 2xLC1-D for reversing

Selection of the mounting plate

Dimension of the compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
3M	150	800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
4M	200	800	**NSYMP4M8**	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Life Is On Schneider Electric

3-component motor starter

3-component motor starter Direct on line and reversing NS80H and NSX

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)	Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)	
	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor (1)	Thermal relay	DOL	Reversing
70	18.5	34	NS80H-MA	LC1D50	LRD3355	3M	6M
70	22	40	NS80H-MA	LC1D50	LRD3357	3M	6M
70	30	55	NS80H-MA	LC1D65	LRD3359	3M	6M
70	37	66	NS80H-MA	LC1D80	LRD3363	3M	6M
NSX...F = 36 kA NSX...N = 50 kA NSX...H = 70 kA NSX...S = 85 kA NSX400L = 150 kA NSX630L = 150 kA	18.5	34	NSX100 MA	LC1D80	LRD3355	3M	6M
	22	40	NSX100 MA	LC1D80	LRD3357	3M	6M
	30	55	NSX100 MA	LC1D80	LRD3359	3M	6M
	37	64	NSX100 MA	LC1D80	LRD3363	3M	6M
	45	80	NSX100 MA	LC1D115	LR9D5367	6M	9M
	55	100	NSX160 MA	LC1D150	LR9D5369	6M	9M
	75	135	NSX160 MA	LC1F185	LR9F5369	9M	12M
	90	160	NSX250 MA	LC1F225	LR9F5371	9M	12M
	100	187	NSX250 MA	LC1F265	LR9F5371	9M	12M
	132	230	NSX400 1.3-M	LC1F330	LR9F7375	12M	16M
	160	270	NSX400 1.3-M	LC1F330	LR9F7375	12M	16M
	200	361	NSX630 1.3-M	LC1F500	LR9F7379	16M	16M
	220	380	NSX630 1.3-M	LC1F500	LR9F7379	16M	16M
	250	430	NSX630 1.3-M	LC1F500	LR9F7379	16M	16M

(1) 2xLC1-D for reversing

Selection of the mounting plate

Dimension of the compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
3M	150	800	**NSYMP3M8**	
6M	300	600	**NSYMP6M6**	
6M	300	800	**NSYMP6M8**	
9M	450	600	**NSYMP9M6**	
9M	450	800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
12M	600	800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
16M	800	800	**NSYMP16M8**	

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3-component motor starter

2-component motor starter Star-delta GV2, GV3 and GV7

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution		Mounting plate Number of modules (1M = 50 mm)
Without limiter	With GV1L3	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor	Star-delta
85	-	0,37	1,1	GV2-P06	3xLC1D09	4M
85	-	0,55	1,5	GV2-P06	3xLC1D09	4M
85	-	0,75	1,8	GV2-P07	3xLC1D09	4M
85	-	1,1	2,6	GV2-P08	3xLC1D09	4M
85	-	1,5	3,4	GV2-P08	3xLC1D09	3M
85	-	2,2	4,8	GV2-P10	3xLC1D18	4M
85	-	3	6,5	GV2-P14	3xLC1D18	3M
85	-	4	8,2	GV2-P14	3xLC1D18	4M
50	85	5,5	11	GV2-P16	3xLC1D25	4M
50	85	7,5	14	GV2-P20	3xLC1D25	4M
50	85	10	19	GV2-P21	3xLC1D32	5M
50	85	11	21	GV2-P22	3xLC1D32	4M
35	85	15	28	GV2-P32	3xLC1D32	4M
50	-	18,5	34	GV3-P40	3xLC1D50A	5M
50	-	22	40	GV3-P50	3xLC1D50A	5M
50	-	30	55	GV3-P65	3xLC1D65A	5M
70	-	15	28	GV7-RS40	3xLC1D80	9M
70	-	18,5	34	GV7-RS40	3xLC1D50	9M
70	-	22	40	GV7-RS50	3xLC1D80	9M
70	-	30	55	GV7-RS80	3xLC1D80	9M
70	-	45	80	GV7-RS100	3xLC1D115	12M
70	-	55	100	GV7-RS150	3xLC1D150	12M
70	-	75	135	GV7-RS150	3xLC1F185	16M
70	-	90	160	GV7-RS220	3xLC1F225	16M
70	-	110	200	GV7-RS220	3xLC1F265	16M

Selection of the mounting plate

Dimension of the compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
3M	150	600	**NSYMP3M6**	**NSYMPFIX**
3M	150	800	**NSYMP3M8**	
4M	200	600	**NSYMP4M6**	
4M	200	800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
5M	250	800	**NSYMP5M8**	
9M	450	600	**NSYMP9M6**	
9M	450	800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
12M	600	800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
16M	800	800	**NSYMP16M8**	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

3-component motor starter

3-component motor starter Star-delta GV2 and GV3

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)
Without limiter	With LA9LB920	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor	Thermal relay	Star-delta
85	-	0,37	1,1	GV2-L06	3xLC1D09	LRD06	4M
85	-	0,55	1,5	GV2-L06	3xLC1D09	LRD06	4M
85	-	0,75	1,8	GV2-L07	3xLC1D09	LRD07	4M
85	-	1,1	2,6	GV2-L08	3xLC1D09	LRD08	4M
85	-	1,5	3,4	GV2-L08	3xLC1D09	LRD08	4M
85	-	2,2	4,8	GV2-L10	3xLC1D18	LRD10	4M
85	-	3	6,5	GV2-L14	3xLC1D18	LRD12	4M
85	-	4	8,2	GV2-L14	3xLC1D18	LRD14	4M
50	85	5,5	11	GV2-L16	3xLC1D25	LRD16	4M
50	85	7,5	14	GV2-L20	3xLC1D25	LRD21	4M
50	85	10	19	GV2-L21	3xLC1D32	LRD22	4M
50	85	11	21	GV2-L22	3xLC1D32	LRD22	4M
35	85	15	24	GV2-L32	3xLC1D32	LRD32	4M
50	-	18,5	34	GV3-L40	3xLC1D50A	LRD340	5M
50	-	22	40	GV3-L50	3xLC1D50A	LRD350	5M
50	-	30	49	GV3-L65	3xLC1D65A	LRD365	5M

Selection of the mounting plate

Dimension of the compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
4M	200	600	**NSYMP4M6**	**NSYMPFIX**
4M	200	800	**NSYMP4M8**	
5M	250	600	**NSYMP5M6**	
5M	250	800	**NSYMP5M8**	

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3-component motor starter

3-component motor starter Star-delta NS80H and NSX

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)	Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)
	P_{max} (kW)	I_{max} (A)	Circuit breaker	Contactor	Thermal relay	Star-delta
70	18.5	34	NS80H-MA	3xLC1D50	LRD3355	9M
70	22	40	NS80H-MA	3xLC1D50	LRD3357	9M
70	30	55	NS80H-MA	3xLC1D65	LRD3359	9M
70	37	66	NS80H-MA	3xLC1D80	LRD3363	9M
NSX...F = 36 kA NSX...N = 50 kA NSX...H = 70 kA NSX...S = 85 kA NSX400L = 150 kA NSX630L = 150 kA	18.5	34	NSX100 MA	3xLC1D80	LRD3355	9M
	22	40	NSX100 MA	3xLC1D80	LRD3357	9M
	30	55	NSX100 MA	3xLC1D80	LRD3359	9M
	37	64	NSX100 MA	3xLC1D80	LRD3363	9M
	45	80	NSX100 MA	3xLC1D115	LR9D5367	12M
	55	100	NSX160 MA	3xLC1D150	LR9D5369	12M
	75	135	NSX160 MA	3xLC1F185	LR9F5369	16M
	90	160	NSX250 MA	3xLC1F225	LR9F5371	16M
	110	187	NSX250 MA	3xLC1F265	LR9F5371	16M
	132	230	NSX400 1.3-M	3xLC1F330	LR9F7375	20M
	160	270	NSX400 1.3-M	3xLC1F330	LR9F7375	20M
	200	361	NSX630 1.3-M	3xLC1F500	LR9F7379	24M
	220	380	NSX630 1.3-M	3xLC1F500	LR9F7379	24M
	250	430	NSX630 1.3-M	3xLC1F500	LR9F7379	24M

Selection of the mounting plate

Dimension of the compartment			Mounting plate	Fixing kit
Number of modules	Height (mm)	Width (mm)	References	References
9M	450	600	**NSYMP9M6**	**NSYMPFIX**
9M	450	800	**NSYMP9M8**	
12M	600	600	**NSYMP12M6**	
12M	600	800	**NSYMP12M8**	
16M	800	600	**NSYMP16M6**	
16M	800	800	**NSYMP16M8**	
20M	1000	600	**NSYMP20M6**	
20M	1000	800	**NSYMP20M8**	
24M	1200	600	**NSYMP24M6**	
24M	1200	800	**NSYMP24M8**	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Linergy LGYE-LGY
a breakthrough in busbar systems

Safe, reliable, flexible, and flexible with the highest level of performance

The Linergy LGYE-LGY busbar system now includes horizontal busbars, for greater electrical switchboard enclosure performance, reliability, and costeffectiveness.

Manufactured using a revolutionary process, patented Linergy busbars are unique on the market, taking your electrical switchboard installations a giant leap into the future.

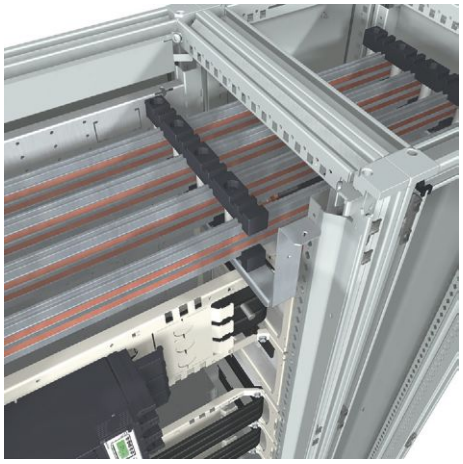


Discover how Linergy LGYE-LGY can place the next generation of low-voltage switchboards in your hands.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

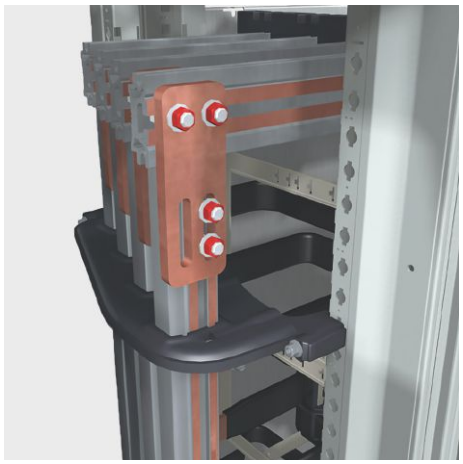
Innovative technology from an energy expert you can trust

Patented Linergy LGYE-LGY is backed by Schneider Electric's decades of expertise in electrical distribution systems and is certified IEC 61439-2 compliant by ASEFA.



Linergy unique profile
was designed with the ratings you need, a commitment to performance backed by regular testing up to 4000 A.

Heat is dissipated by conduction
and radiation for performance only a market leader can bring you.



Linergy LGYE-LGY busbars
performances are identical or better than traditional all Linergy BS busbars.

Unlike tin-plated aluminum busbars, rugged Linergy LGYE-LGY
busbars are resistant to scratching during assembly to ensure optimal connection quality and reliability.

High Velocity Oxy-Fuel, unique on the busbar market
Patented Linergy LGYE-LGY uses a supersonic high-temperature coating process for a robust copper contact surface.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

A revolutionary design for greater efficiency

The Linergy line now includes horizontal busbars, helping you achieve better electrical switchboard performance while optimizing busbar layout and facilitating assembly.

Schneider ElectricTM has drawn upon 30 years of expertise in electrical distribution systems and a decade of hands-on experience with the proven and reliable Linergy line of products. It brings you a revolutionary design featuring a high-quality copper contact surface that delivers even better results than traditional Linergy BS-to-Linergy BS connections. Linergy LGYE-LGY busbars offer a number of benefits to help you enhance performance and boost your competitiveness.

Lightweight

Linergy is half the weight of equivalentrated Linergy BS bars for more fuel-efficient transport, easier handling, and smoother installation.

Higher-capacity

A single Linergy LGYE bar can withstand ratings up to 2500 A. It would take two or three Linergy BS bars per pole to achieve similar ratings.

Robust and flexible

Linergy LGYE bars are extruded for a unique profile that includes both closed and ribbed sections, improving rigidity, thermal dissipation, and resistance to short circuits, with a shortcircuit withstand capacity (I_{cw}) of 85 kA/1s for SFM and 100 kA / 1s for Spacial SFP.

> Linergy LGYE is 50% lighter than Linergy BS

Reduce costs and assembly times over Linergy BS busbars

Attractive

The revolutionary copper contact strips, anodized aluminum surface, and unique shapes give a modern appearance and a soft touch.

IEC standards-compliant

The latest standards were factored in from the early design stages to ensure that temperatures are kept below the IEC61439-2 standard requirements, for optimal performance regardless of the switchboard configuration.

Environmentally-friendly

Instead of increasingly-scarce copper, Linergy LGYE is made from 70% recycled raw materials offering the same performance as primary raw materials.

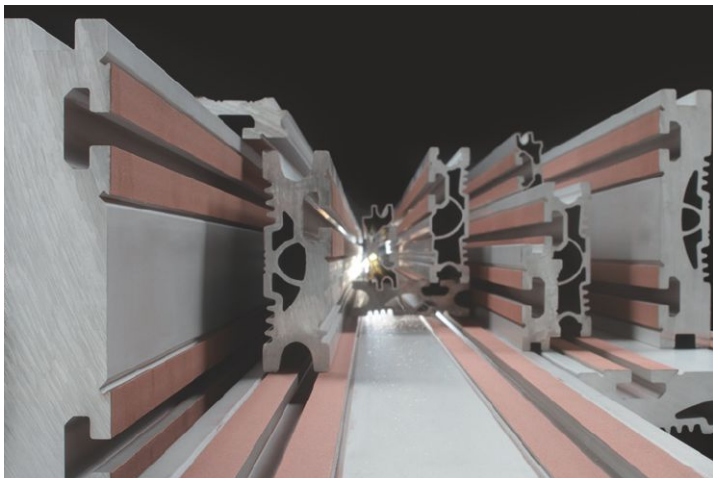
Cost-effective

Linergy LGYE-LGY helps you achieve cost savings now and provides protection against fluctuating copper prices in the future, plus all the advantages of a raw material that is easy to purchase and store.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Linergy accessories are also evolving!

Linergy LGYE is a full-featured busbar system that includes all the connections, screws, bolts, isolating supports, and other accessories you need for drill-free assembly.





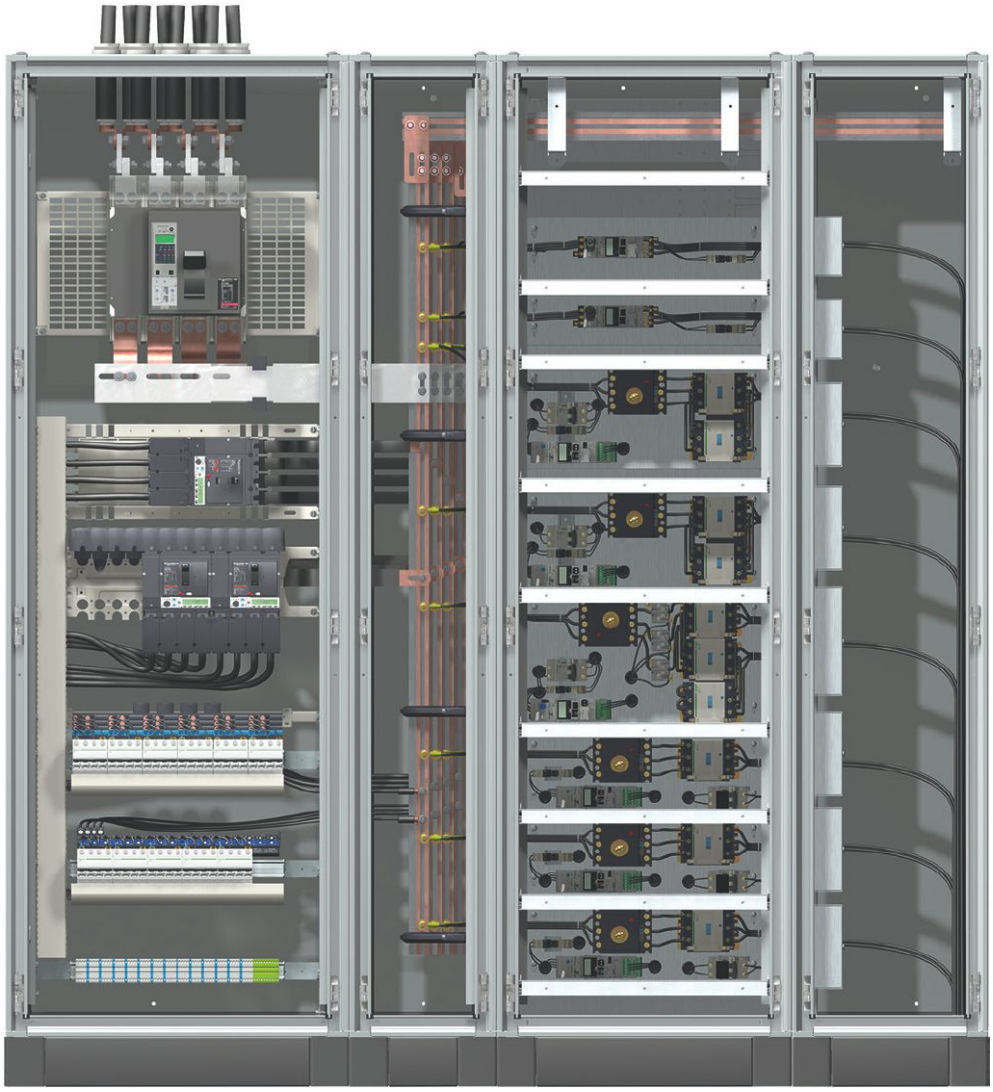
Panel builders, we've thought of everything to make your life easier!



- Linergy LGYE-LGY busbars are lightweight, making them easy to transport and handle in the workshop.
- With Linergy LGYE-LGY, you can continue to use the familiar Spacial SFP busbar supports you already know for Linergy BS bars. There's no new system to learn.
- Linergy LGYE-LGY offers single bars for each rating, making handling during installation faster and more convenient.
- Linergy LGYE-LGY bars are fast and easy to position without drilling, thanks to a sliding bolt and track system.
- Linergy screws let you add extra outgoing connections without drilling new holes or dismounting previous connections or busbar supports, saving you time and giving you greater flexibility in the event of last-minute changes.
- Linergy LGYE-LGY busbars offer a unique shape with no sharp edges for safer, smoother handling and installation the bars simply slide right in to the busbar supports.
- Existing Linergy LGY vertical busbars are easy to connect to Linergy LGYE with ready-toinstall accessories like vertical connectors.
- Linergy materials are easy to recycle via well-established aluminum recycling services already in use for materials like aluminum cans, coffee capsules, door and window frames, and engine blocks.

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Linergy also offers the most advanced busbar solutions while remaining simple.



Linergy LGYE / LGY /BS

Power busbars

- Solutions available up to 2500 A for Spacial SFM up to 4 000 A for Spacial SFP.
- Connection everywhere without drilling (with LGY and LGYE profile).

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Lateral Linergy busbars up to 1600 A

Busbar calculation

The following table indicates:

- the catalogue numbers of the bars to be used, depending on the permissible current level in the busbars,
- the number of supports required, depending on the rated short-time withstand current (I_{cw} in kA rms / 1 second).

Linergy busbars	Permissible current at 35 °C for switchboard		No. of supports I_{cw} (kA effrms / 1 s)								References
	IP ≤ 31	IP > 31	≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85	
Linergy 630	680	590	3								**04502**
Linergy 800	840	760	3	3							**04503**
Linergy 1000	1040	950	3	3	3						**04504**
Linergy 1250	1290	1170	3	3	3	4	5				**04505**
Linergy 1600	1650	1480	3	3	3	4	5	5	7	8	**04506**

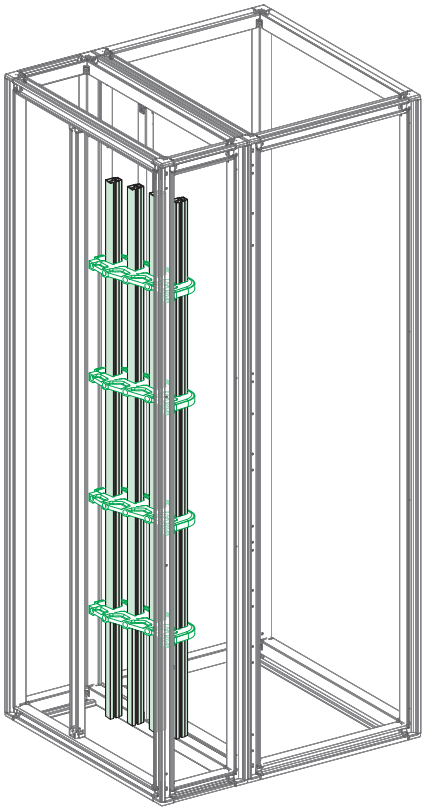
Note: The permissible current values for the busbars are given for an ambient temperature of 35°C around the switchboard. The bottom support also maintains the bars in position. Each catalogue number represents one bar.

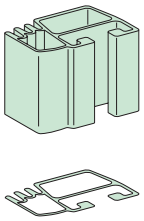
Busbar selection

Linergy busbars, L = 1670 mm

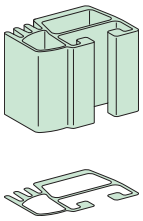
Cat. no. selection: See the table below.

Each bar is supplied with a stop for the bottom support.

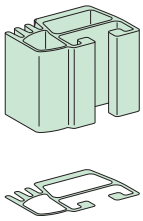




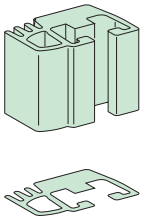
Bar 630 A.
04502



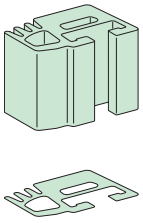
Bar 800 A.
04503



Bar 1000 A.
04504



Bar 1250 A.
04505



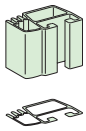
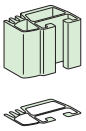
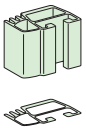
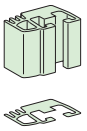
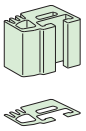
Bar 1600 A.
04506

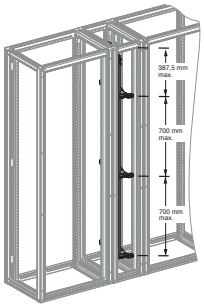
Busbars up to 1600 A.

The bottom support is used in wedging busbars in position.

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Linergy LGY - Lateral profiles up to 1600 A

In Spacial SFP duct		W300				
Linergy profile, 1670 mm length		 **630 A**	 **800 A**	 **1000 A**	 **1250 A**	 **1600 A**
Permissible current for an ambient temp. of 35°C around the switchboard	IP ⩽ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
References		**04502**	**04503**	**04504**	**04505**	**04506**



The bottom wedge support is used to place the busbar and ensure it is in the correct position. It is count as a busbar support (included in the number of supports).

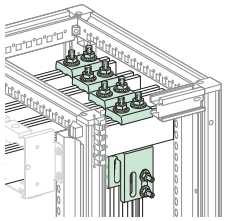



Fixed support **04651**

Note:
An end stop must be fitted on the bottom support: **01109** (sold in lots of 12)

Number depending on I_{cw} (kA rms/1 s)	⩽ 25	3				
	⩽ 30	-	3			
	⩽ 40	-		3		
	⩽ 50	-			4	
	⩽60	-			5	
	⩽ 65	-				5
	⩽ 75	-				7
Only for depth cubicle ⩾ 500 mm	⩽ 85	-				8
References		**04651** (set of 2 upright adapters **NSYSFPA** and set of 2 40 mm universal cross rail **NSYSUCR40200** for installation in Spacial SF busbar chamber)				

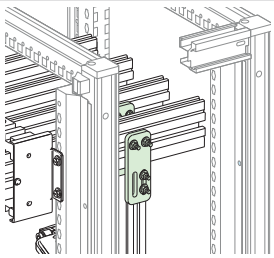
Connections to the Linergy BS horizontal busbar



Note:
Supplied with mounting hardware.
Reference include 1 connection only.
Order 1 connection per phase.

References according to horizontal busbar size	5 mm thick	**04634**	**04635**
	10 mm thick, width ⩽ 80 mm	**04636**	

Connections to the Linergy LGYE horizontal busbar



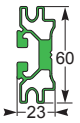
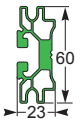
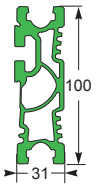
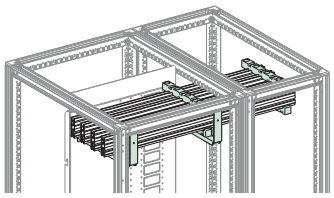
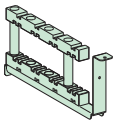
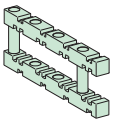
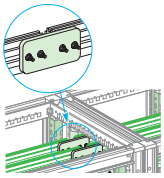
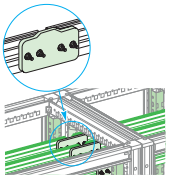
Note:
Supplied with mounting hardware.
Reference include 1 connection only.
Order 1 connection per phase.

References (vertical connection)	**04602**
References (vertical shifted connection)	**04603**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

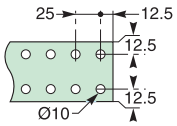
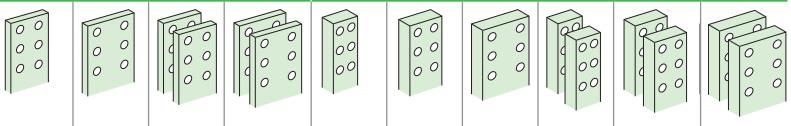
Linergy LGYE - Horizontal profiles up to 2500 A

Note:
For accessories, see page 399.

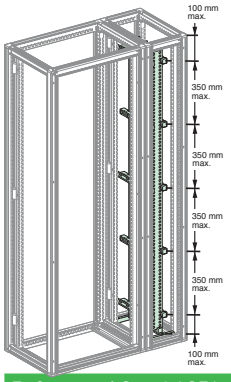
Installation in Spacial SFM compartmentalised			Up to 1600 A					Up to 2500 A	
Linergy profile, 2000 mm length									
			630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**
Permissible current for an ambient temp. of 35°C around the switchboard			530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A
Number of profiles per phase			1						
Total number of vertical modules (50 mm)			3					3	
References			**04560**	**04561**	**04562**	**04563**	**04564**	**04565**	**04566**
Busbar supports 			 Fixed support		 Free support				
			2 fixed supports for Spacial SF wide cublicle are compulsory according compartment depth (400 or 500 mm). 1 fixed support for Spacial SF 300/400 wide chamber are compulsory. Fixed directly on framework. If more supports are needed, add free supports.						
In cubicle SFM: W600/800 Busbar supports 75 mm distance between bars	**Number of supports depending on I_{cw} (kA rms/1 s)**	≤ 15	2						
		≤ 25	2						
		≤ 30	2						
		≤ 40	-		2				
		≤ 50	-			2			
		≤ 60	-			2+1		2	
		≤ 65	-				2+1		
		≤ 75	-				2+1		
		≤ 85	-				2+1		
References Fixed support		D400	**NSYMBHS4**						
References Fixed support		D500	**NSYMBHS5**						
References Free support			**NSYBSA**						
In busbar chamber SF: W300/400 Busbar supports 75 mm distance between bars	**Number of supports depending on I_{cw} (kA rms/1 s)**	≤ 15	1						
		≤ 25	1						
		≤ 30	1						
		≤ 40	-		1				
		≤ 50	-			1			
		≤ 60	-			1			
		≤ 65	-				1 + 1		
		≤ 75	-				1 + 1		
		≤ 85	-				1 + 1		
References Fixed support		D600	**NSYBHS600**					**NSYBHS600**	
References Fixed support		D800	**NSYBHS800**					**NSYBHS800**	
References Free support			**NSYBSA**					**NSYBSA**	
Joints			Up to 1600 A					Up to 2500 A	
			630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
			 **04620**					 **04621**	
References 3P			3x **04620**					3x **04621**	
References 4P			4x **04620**					4x **04621**	

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Linergy BS - Lateral flat busbars up to 2500 A

In Spacial SF busbar chamber		W300 D500/600/800, up to 1600 A				W300 D500/600/800, up to 2500 A					
Pre-slotted copper, 1675 mm length 											
Permissible current for an ambient temp. of 35°C around the switchboard	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2		1			2		
References		**04516**	**04518**	**04516**	**04518**	**04525**	**04526**	**04528**	**04525**	**04526**	**04528**

Busbar supports



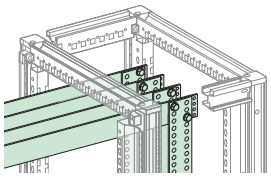
3 fixed supports are compulsory to hold the busbar in position.
If more than 3 supports are needed, use free supports (in addition).
The bottom wedge support is used to place the busbar and ensure it is in the correct position.
It does not count as a busbar support.

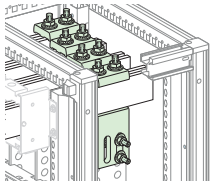
Number of supports depending on I_{cw} (kA rms/1 s)											
	≤ 15	3				3					
	≤ 25	3+2			3	3					
	≤ 30	3+2				3+2					3
	≤ 40	3+4		3+2		3+2					
	≤ 50		3+4			3+2					
	≤ 60					3+4					3+2
	≤ 65					3+4					3+2
	≤ 75						3+6		3+4		
	≤ 85									3+4	

References* Spacial SF busbar chamber 75 mm distance between bars		
	W300, D600	**NSYBVS600** (fixed) + **NSYBSA** (free) + **NSYAS600** (end stop support)
	W300, D800	**NSYBVS800** (fixed) + **NSYBSA** (free) + **NSYAS800** (end stop support)

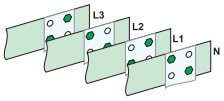
* References of supports depending on distance between bars and busbar chamber depth

Connections to the Linergy BS horizontal busbar





For a busbar with 75 mm distance between bars, the bars must be completely covered.
Staggered assembly points between one bar and the next, to maintain the necessary clearance distances.(1)

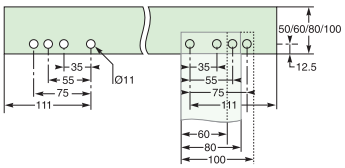


References **04636**, **04637** are supplied individually:
1 connection per phase.
Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.

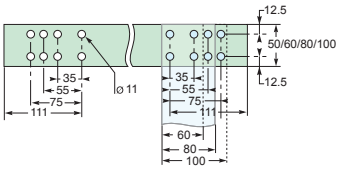
		1 vertical bar per phase		2 vertical bars per phase		1 vertical bar per phase			2 vertical bars per phase		
		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10
References*	≤ 80 mm	**04645**				**04636**		**04637**	**04637**		

* References of the connection piece depending on horizontal busbar size

(1) Drill hole dimensions for 5 mm thick horizontal busbars.



Drill hole dimensions for 10 mm thick horizontal busbars.

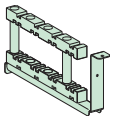
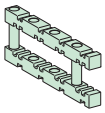
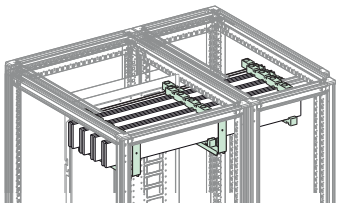


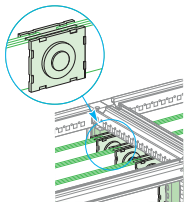
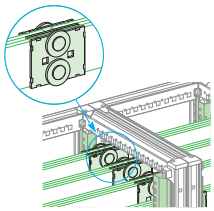
11

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Linergy BS - Horizontal flat busbars up to 2500 A

Note:
When installed at the bottom of a cubicle, the busbar must be partitioned.

Installation in Spacial SFM compartmentalised			Hasta 1600 A				Hasta 2500 A			
Copper bar, 2000 mm length										
Permissible current for an ambient temp. of 35°C around the switchboard			750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)			60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase			1	1	2	2	1	2	2	2
Total number of vertical modules (50 mm)			3							
References			**04536**	**04538**	**04536**	**04538**	**04548**	**04545**	**04546**	**04548**
Busbar supports			 Fixed support		 Free support					
			2 fixed supports for Spacial SF wide cublicle are compulsory according compartment depth (400 or 500 mm). 1 fixed support for Spacial SF 300/400 wide chamber are compulsory. Fixed directly on framework. If more supports are needed, add free supports.							
In cubicle SFM: W600/800 with 75 mm distance between bars	**Number of supports depending on I_{cw} (kA rms/1 s)**	≤ 15	2							
		≤ 25	2+1	2						
		≤ 30	2+1		2					
		≤ 40	2+1				2			
		≤ 50	-	2+1					2	
		≤ 60	-				2+1			
		≤ 65	-				2+1			
		≤ 75	-				2+2	2+1		
		≤ 85	-				-		2+1	
References Fixed support			**NSYMBHS4** (D400) or **NSYMBHS5** (D500)							
References Free support			**NSYBSA**							
In busbar chamber SF: W300/400 with 75 mm distance between bars	**Number depending on I_{cw} (kA rms/1 s)**	≤ 30	1							
		≤ 50	1+1				1			
		≤ 85	-				2			
References* Fixed support			**NSYBHS600** (D600) or **NSYBHS800** (D800)				**NSYBHS600** (D600) or **NSYBHS800** (D800)			
References* Free support			**NSYBSA**				**NSYBSA**			
			* References depending on depth							

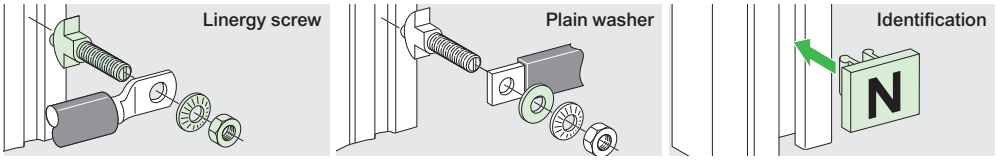
Joints, Installation in Spacial SFP		Up to 1600 A				Up to 2500 A			
		1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase		
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Sliding joints with self-breaking lock nut		 **04640**			 **04641**				
References		**04640**	**04641**	**04640**	**04641**	**04641**	**04640**	**04640**	**04641**

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Linergy LGYE - Accessories

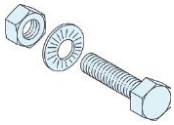
Linergy screw

- Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.



Characteristics		AD	References
Steel plain washers	M8 sold in lots of 20	20 mm	**04772**
	M8 sold in lots of 20	24 mm	**04773**
	M8 sold in lots of 20	28 mm	**04774**
Brass plain washers	M8 sold in lots of 20 for connection of ≤ 25 mm² lugs to Linergy	20 mm	**04775**
Identification	12 clip-on supports + N, L1, L2, L3, PE, PEN labels		**04794**
	Linergy LGYE busbar screw plate kit after sales service		**01130**

M8 bolts


04782

- Set of 20 bolts + 20 nuts + 40 contact washers.

Characteristics	References
Linergy BS, 20 bolts 8.8 class, M8 x 20	**04782**
Linergy BS, 20 bolts 8.8 class, M8 x 25	**04783**
Linergy BS, 20 bolts 8.8 class, M8 x 30	**04784**
Linergy BS, 20 bolts 8.8 class, M8 x 35	**04785**
Linergy BS, 20 bolts 8.8 class, M8 x 40	**04786**
Linergy BS, 20 bolts 8.8 class, M8 x 45	**04787**
Linergy BS, 20 bolts 8.8 class, M8 x 50	**04788**

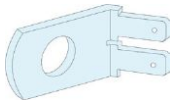
Torque nuts


04759

- Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.

Characteristics	References
20 M8 torque nuts	**04759**

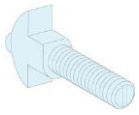
Voltage tap-offs


04229

- For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (ref. **04775**) between the busbar and the lug.

Characteristics	References
20 M10 voltage tap-offs for two 6.35 mm tab connectors	**04229**

Connections on Linergy LGYE and LGY


04766


04768


04769

Characteristics	I_nA	bar	Utilisation	References
Use the 25 mm Linergy screw	0 A to 630 A	Cable Insulated flexible bar	Recommended	**04766**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	0 A to 630 A	Cable Insulated flexible bar	Possible	**04767**
Use the 25 mm Linergy screw	800 A to 1250 A	5 mm thick bar	Recommended	**04766**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	800 A to 1250 A	5 mm thick bar	Possible	**04767**
Use the flat plate screw with 2 studs	800 A to 1250 A	5 mm thick bar	Possible	**04768**
Use the flat plate screw with 2 studs	1600 A to 2500 A	5 or 10 mm thick bar	Recommended	**04768**
Use the 39 mm Linergy screw is only compatible with Linergy LGY.	1600 A to 2500 A	5 or 10 mm thick bar	Possible	**04767**
Use the flat plate screw with 3 studs	3200 A to 4000 A	10 mm thick bar	Recommended	**04769**

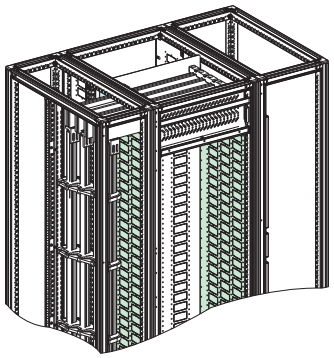
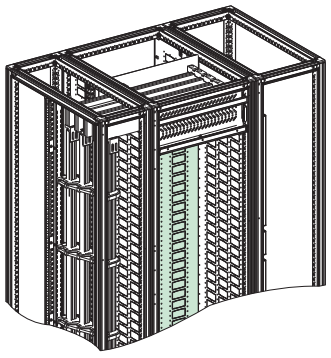
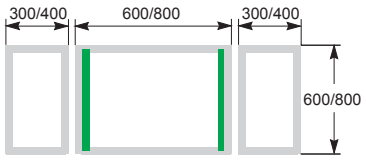
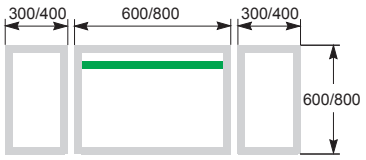
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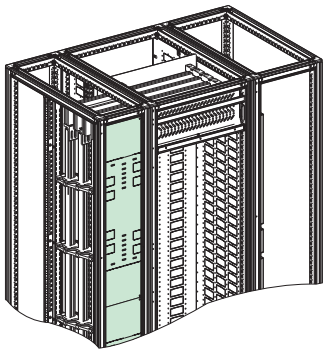
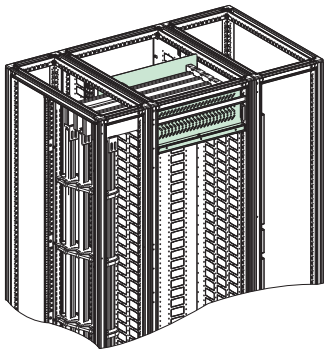
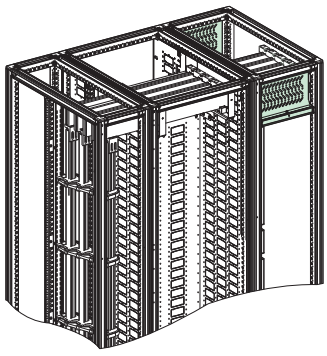
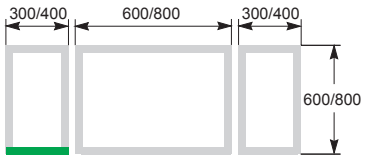
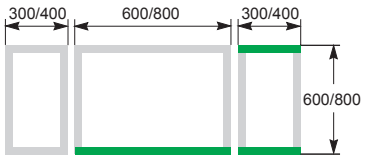
Partitioning Form 2

Partitioning Form 2

Separation of busbars from the functional units:
- protection against contact with live parts upstream of the outgoing circuits,
- protection against penetration of foreign solid bodies.

Note:
when the busbars are at the bottom of the cubicle, gland plates are mandatory.

	Lateral partitioning	Rear partitioning
		
Diagrams		
		
Characteristics	• Set of 2 vertical metallic separation which guarantees good insulation of the sides of the compartment (IP2x). • Top and bottom ends have knock-outs for installation of horizontal busbars and pre-cuts of 40 x 70 mm for cable glands using grommets ref **01215** when Form 4b is required. • Partition extension required for D800 mm. • Direct fixing on structure of enclosure.	• Vertical metallic separation which guarantee good insulation of the back of the compartment (IP2x). • Pre-cuts of 40 x 70 mm for cable glands using grommets ref **01215** when Form 4b is required on back installation. • Direct fixing on structure of enclosure.
References	D600: **NSYMSC206** D800: **NSYMSC206** + **NSYMSC202** + **NSYSUCR40200**	W600: **NSYMBC206** W800: **NSYMBC208**

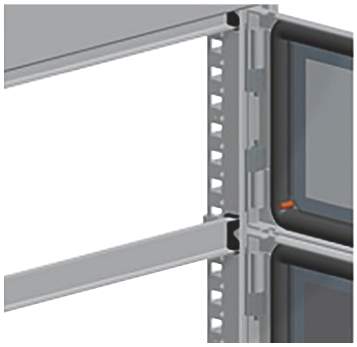
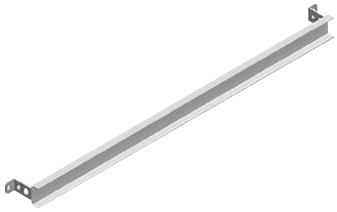
	Front and Rear busbar barrier	Horizontal busbar barriers	
			
Diagrams			
			
		W600 / **W800**	**W300** / W400
Characteristics	• Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends • Rear protection is realized by the association of the back panel of the enclosure.	• Horizontal protection by the association of slotted front barrier and horizontal partition for efficient natural convection in the switchboard. • The set can be used to partition horizontal busbar at the top or bottom of the cubicle. • The space required for the busbars is not increased.	• Set of 2 slotted barriers (front and rear), plus horizontal panel to be used when busbars cross the cable chamber.
References	W300: **06540** W400: **NSYVPF2B4**	D600 (1): **NSYHPF2B3M64** D800 (1): **NSYHPF2B3M65**	D600 (1): **NSYHPF2B3M84** D800 (1): **NSYHPF2B3M85**	D600: **06561** D800: **06563**	D600: **NSYHPF2B3M4** D800: **NSYHPF2B3M4**

(1) For an enclosure with depth of 600 mm the compartment depth is 400 mm. For an enclosure with depth of 800 mm the compartment depth is 500 mm

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Partitioning Form 3

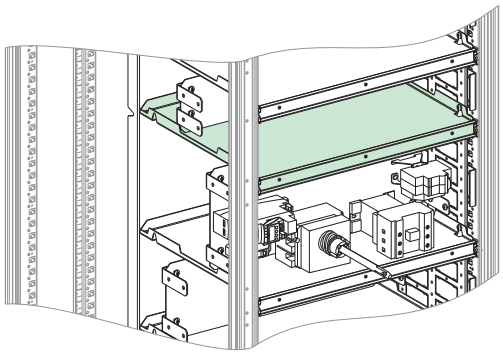
Accessorie for partitioning Form 2

	External claddings
	 
Intermediate Crossbar	
Characteristics	• It is mounted between partial doors, guaranteeing good sealing. • To be used in the absence of the partition tray. • Direct fixing to the structure. • Available in 2 widths (mm).
Supply	• 2 crossbars with fixing elements
References	W600: **NSYMIC6** W800: **NSYMIC8**

Partitioning Form 3

Separation of busbars from the functional units and separation of all functional units from one another.
Separation of the terminals for external conductors from the functional units, but not from each other.

- protection against contact with live parts
- reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

	Form 3 partitioning	
		
Horizontal partitioning	**W600**	**W800**
Characteristics	• A horizontal metal partition to separate functional units from one another and guarantees insulation of the compartments (IP2x). • It is fixed to the front uprights of the enclosure and the side partitions. • Quick fixing system with intermediate crossbar to ensure the degree of protection of the partial doors. • Order by multiples of 2 (2, 4, 6…).	
References	D600 (1): **NSYMTR64** D800 (1): **NSYMTR65**	D600 (1): **NSYMTR84** D800 (1): **NSYMTR85**

(1) For an enclosure with depth of 600 mm the compartment depth is 400 mm. For an enclosure with depth of 800 mm the compartment depth is 500 mm.

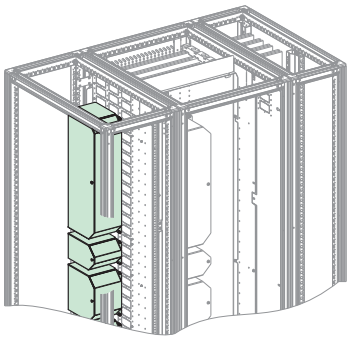
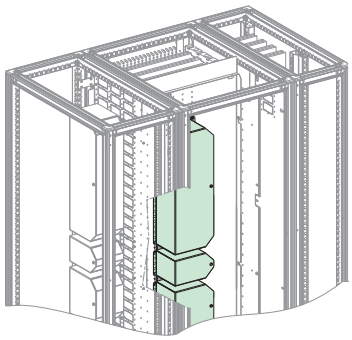
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Partitioning Form 4

Partitioning Form 4

Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit:

- Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
- Form 4a: Terminal for external conductors in the same compartment as the associated.
- Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

	Form 4b boxes					
						
Characteristics	• Metallic plain box composed by 2 parts that can be easily installed for side or rear connection to separate the terminals for external conductors of the functional unit. • Quick fixing system on the side or on the back partition. • Available in 6 heights:					
References	3M: **NSYBF4B3M**	4M: **NSYBF4B4M**	5M: **NSYBF4B5M**	6M: **NSYBF4B6M**	8M: **NSYBF4B8M**	9M: **NSYBF4B9M**

Rail support bracket

SM | **SF** | **SD** | **SMX** | **SFX** | **SDX**

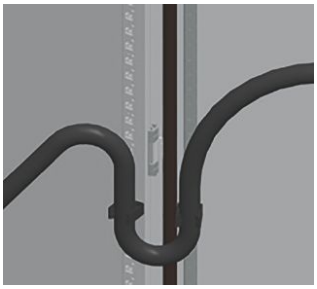
Telequick

- Bracket for fixing rails at an angle of 45°.
- Material: Zinc-coated steel
- Spacial SF: Mounted on the structure and/or mounting plates
- Spacial SM: Mounted on the bottom mounting rail and/ or mounting plates


NSYFB45

Characteristics	References
Rail support bracket	**NSYFB45**

Other universal common accessories

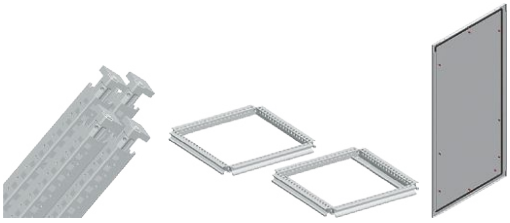
	Mounting and Cable management acc.	
		
References	See on Universal Enclosure catalogue	

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Selection of Spacial enclosures

Common characteristics

- Spacial SFM framework with compartmentalised system that can be combined side-by-side with busbar and cable chambers.
- Receive the cover panels and partial doors IP54.
- Material: Steel.
- Finish: Painted with epoxy polyester resin.
- Colour: RAL 7035 grey.
- Possibility to order it assembled or kit supply.

	Assembled supply		Kit supply	
				
Compartmentalised enclosure	**W600**	**W800**	**W600**	**W800**
Characteristics	• Structure: Top and bottom frame and vertical uprights H2000 mm. • Useful height for doors H1800 mm /36M, when are installed the top and bottom fix panels for modularity (mandatory for installation of partial doors). • Equipped with removable roof, external fixing rear panel and top and bottom fixed panels (H100 mm) to allow modularity of partial doors. • 4 dimensions available.			
References	D600: **NSYSF20660M** D800: **NSYSF20680M**	D600: **NSYSF20860M** D800: **NSYSF20880M**	-	-
Vertical uprights H2000 mm	-	-	**NSYSFV20**	**NSYSFV20**
Top and Bottom frame with roof	-	-	D600: **NSYSFC66** D800: **NSYSFC68**	D600: **NSYSFC86** D800: **NSYSFC88**
Rear panel	-	-	**NSYBP206**	**NSYBP208**
Fixed panels for modularty H100 mm /2M (intermediate crossbars included)	-	-	See table below	See table below

	Front Fix panel for modularity		Frontal partial doors		Side panels	
						
External claddings	**W600**	**W800**	**W600**	**W800**	**D600**	**D800**
Characteristics	• Top and bottom fix panel to obtain modularity required to install partial doors. • If there is no horizontal partitioning on top or bottom, the intermediate cross-bar has to be ordered separately, ref. NSYMIC6 (W600 mm) or NSYMIC8 (W800 mm). • 2M fixed panels are delivered as standard for the compartmentalized enclosure. Possibility to order it separately for Spacial SFM framework in kit supply. • Available in 2 heights(M) Heights according modularity (1M = 50 mm).		• Plain partial door with lock 5 mm double bar insert. • They are fixed to the uprights of the frame-work by means of hinges. • Drilling template for uprights ref. NSYMDT (Only 1 drilling template by order is needed). • Opening to right or left. • 1, 2 or 4 locking points according different heights. • Possibility to replace locking insert (see page 405). • Available in following heights(M) Heights according modularity (1M = 50 mm).		• Set of 2 side panels fixed to the outside of the enclosure. • Captive screws pre-mounted on • the panels. • Available in 2 depths (mm).	
References	2M: **NSYMFP2M6** 5M: **NSYMFP5M6**	2M: **NSYMFP2M8** 5M: **NSYMFP5M8**	3M: **NSYMPD3M6** 4M: **NSYMPD4M6** 5M: **NSYMPD5M6** 6M: **NSYMPD6M6** 8M: **NSYMPD8M6** 9M: **NSYMPD9M6** 12M: **NSYMPD12M6** 16M: **NSYMPD16M6** 18M: **NSYMPD18M6** 20M: **NSYMPD20M6** 24M: **NSYMPD24M6**	3M: **NSYMPD3M8** 4M: **NSYMPD4M8** 5M: **NSYMPD5M8** 6M: **NSYMPD6M8** 8M: **NSYMPD8M8** 9M: **NSYMPD9M8** 12M: **NSYMPD12M8** 16M: **NSYMPD16M8** 18M: **NSYMPD18M8** 20M: **NSYMPD20M8** 24M: **NSYMPD24M8**	**NSY2SP206**	**NSY2SP208**

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Selection of Spacial enclosures

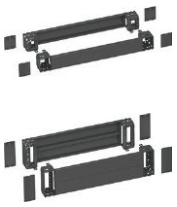
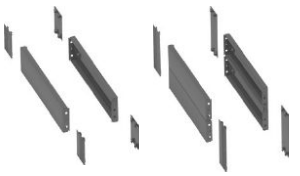
Selection of Spacial enclosures for Motor Control Centres

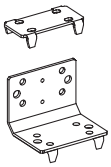
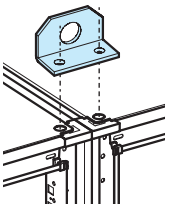
	Assembled supply		Kit supply	
				
Busbar and cabling chambers	**W300**	**W400**	**W300**	**W400**
Characteristics	• Structure: Top and bottom frame and vertical uprights H2000 mm. • Equipped with removable roof, external fixing rear panel and front plain door with 4 point locking system with handle and DB 5 mm insert. • 4 dimensions available.			
References	D600: **NSYSF20360** D800: **NSYSF20380**	D600: **NSYSF20460** D800: **NSYSF20480**	-	-
Vertical uprights H2000 mm	-	-	**NSYSFV20**	**NSYSFV20**
Top and Bottom frame with roof	-	-	D600: **NSYSFC36** D800: **NSYSFC38**	D600: **NSYSFC46** D800: **NSYSFC48**
Rear panel	-	-	**NSYBP203**	**NSYBP204**
Front plain door	-	-	**NSYSFD203**	**NSYSFD204**

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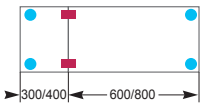
Spacial accessories

Other composition accessories

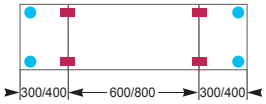
			Cable gland plates			Plinth (100 mm height)		Plinth (200 mm height)	
									
H (mm)	W (mm)	D (mm)	Plain	1 entry	2 entries	Front kit	Side kit	Front kit	Side kit
2000	600	600	NSYEC66	NSYEC661	NSYEC662	NSYSPF6100	NSYSPS6100	NSYSPF6200	NSYSPS6200
2000	600	800	NSYEC68	NSYEC681	NSYEC682	NSYSPF6100	NSYSPS8100	NSYSPF6200	NSYSPS8200
2000	800	600	NSYEC86	NSYEC861	NSYEC862	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200
2000	800	800	NSYEC88	NSYEC881	NSYEC882	NSYSPF8100	NSYSPS8100	NSYSPF8200	NSYSPS8200
2000	300	600	NSYEC36	NSYEC361	-	NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200
2000	300	800	-	NSYEC381	-	NSYSPF3100	NSYSPS8100	NSYSPF3200	NSYSPS8200
2000	400	600	NSYEC64	NSYEC461	-	NSYSPF4100	NSYSPS6100	NSYSPF4200	NSYSPS6200
2000	400	800	NSYEC84	NSYEC481	-	NSYSPF4100	NSYSPS8100	NSYSPF4200	NSYSPS8200

	Coupling kit	4 lifting eyebolts	4 lifting brackets	Earth braids	Earthing cables
					
	NSYSFBK19	NSYSFEB	NSYSFELB	NSYEB1516D8	NSYEL166D8
Characteristics	• Side-by-side combination. • Back-to-back combination (Back to back association must be shipped individually and combined during on-site installation).	• Use a set of lifting eyebolts rings for each framework (1).	• When two cubicles with devices have been combined, use a lifting brackets. (2)	**NSYEB1516D8:** • Length 155 mm, • Section 16 mm², • Terminal 8.5 mm. **NSYEB2025D8:** • Length 200 mm, • Section 25 mm², • Terminal 8.5 mm. **NSYEB2050D8:** • Length 200 mm, • Section 50 mm², • Terminal 8.5 mm.	**NSYEL166D8:** • Length 160 mm, • Section 6 mm², • Terminal 8.3 mm. **NSYEL2225D8:** • Length 220 mm, • Section 25 mm², • Terminal 8.3 mm. **NSYEL3525D8:** • Length 350 mm, • Section 25 mm², • Terminal 8.3 mm.
References	**NSYSFBK19**	**NSYSFEB**	**NSYSFELB**	**NSYEB1516D8** **NSYEB2025D8** **NSYEB2050D8**	**NSYEL166D8** **NSYEL2225D8** **NSYEL3525D8**

(1) For 2 columns:



(2) For 3 columns:



● Lifting eyebolts

▬ Lifting brackets

For more than 3 colomuns, lenghts > 1600 mm, see Lifting bars options on Universal Enclosures catalogue.

Locks for partial doors

Possibility to replace standard insert by one from the table below (CRN range) and by keeping the standard latch.

Type of lock		Insert references	Key references	
	3 mm double bar	NSYTDBCRN*		NSYLDB5
	6 mm	NSYTC6CRN		NSYLC7
	7 mm	NSYTC7CRN		NSYLC7
	8 mm	NSYTC8CRN		NSYLC8
	6.5 mm	NSYTT6CRN		NSYLT8
	7 mm	NSYTT7CRN		NSYLT8
	8 mm	NSYTT8CRN		NSYLT8

* Delivered with 1 metal key.

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Outdoor Heavy Duty enclosures

Thalassa PHD is suitable for outdoor public areas thanks to its multiple virtues:
- pressure and shock resistant (IEC 61439-5: 2010),
- anti-posting thanks to its special ribbed-surface door,
- insulated (ready to be Class II according to IEC 61439-1: 2011).

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining

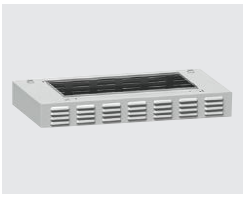
Green Premium™





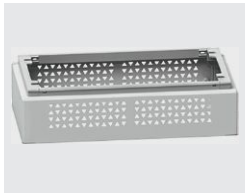
Tough

- PHD: Heavy Duty polyester reinforced with a double layer of fiberglass. Ultra-resistant, anti-vandalism.



Upper ventilation module

- The newly engineered roof ventilation accessory
- helps to prevent creation of condensation
- (one of the causes of corrosion).



Heavy Duty accessories

- Dedicated accessories to resist outdoor, harsh environments.



Anti-vandalism

- PHD and SFHD: The handle with keylock
- and additional padlock hole (padlock not included)
- helps to secure the equipment inside.
- It is standard equipment.



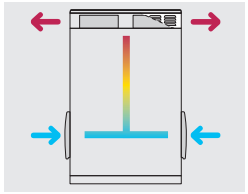
Simplicity

- Installation simplified: Easy to be lifted with up to 1000 kg-loaded equipment. HD lifting accessories also available.



Fully equipped

Standard, pre-installed equipment includes:
- a curved canopy to avoid water stagnation
- a door retainer to keep the door open even with strong wind or when a vehicle passes by
- an aluminium cable gland plate to easily drill holes and avoid corrosion
- a document pocket to stock your documents in a practical place..



Thermal management solutions

- 3 ventilation architectures studied to help protect the equipment installed inside from overheating and humidity.

See page 522 for details or consult our web site www.se.com

Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure.
Without affecting the technical properties according to IEC 62208.
For long exposure applications, it is recommended to use painted enclosures available through the P&S offer.

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According to Reach and RoHs & Halogen free






Polyester outdoor Heavy Duty enclosures

Steel outdoor Heavy Duty enclosures

Characteristics	Wall-mounting enclosure	Floor-standing enclosure	Wall-mounting enclosure	Floor-standing enclosure
	Outdoor Heavy Duty (HD) enclosures made of polyester insulating material. Suitable to be installed in public areas thanks to its features: • anti-pressure and shock resistant • anti-posting • insulated.		Outdoor Heavy Duty (HD) enclosures made of coated steel. Suitable to be installed in private areas with harsh environments thanks to its capacity to resist: • corrosion (up to C4H level according ISO 12944:2018) • UV.	
Material	HD Polyester reinforced with fiberglass to meet the standard EN 439-5		HD steel with anti-corrosive coating	
Finish	-		Structured finish, 100 % polyester powder	
Colour	RAL 7035 grey		RAL 7035 grey	
Conditions of use	Outdoor and/or harsh environments		Outdoor and/or harsh environments	
Temperature range	-40...80°C		-40...80°C	
Ingress protection rating	IP65 according to IEC 60529	IP55 according to IEC 60529	IP66 according to IEC 60529	IP55 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262		IK10 according to IEC 62262	
Standards	IEC 61439-5: 2010, IEC 62208: 2011, IEC 61439-1: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009		IEC 61439-5: 2010, IEC 62208: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009, ISO 12.944: 2018 (C4H)	
Certifications	See table page 418		See table page 418	
Fixing	On wall by means of optional wall fixing accessory	2 options for installation on floor: • with floor fixing kit **NSYMF2PLAZ4** or **NSYMF2PLAZ6** for integrated plinth (50 mm) • with additional ZZ plinths • (ventilated or non-ventilated) available as accessory • (200 mm) (see page 409)	• On wall by means of optional stainless steel wall fixing lugs • On post by means of optional HD post fixing device	• Directly on floor by means of optional plinth (see page 413)
Maximum load according to IEC 62208	500 kg		200 kg	1000 kg
Other characteristics	• Fire resistant (EN 1794-2:2011) • Lifting possible from top with eyebolt accessory • New dedicated ventilation solutions to be integrated in roof, lateral or plinth. 3 ventilation architectures proposed (see page 416 and 417)		New dedicated ventilation solutions to be integrated in roof, side or plinth	
Options	Plain door or ribbed door		-	
Supply	• Curved canopy • Handle with keylock (1242E type) and padlock • Door retainer • Plastic document pocket (A4 size)	• Curved canopy • Integrated plinth • Handle with keylock (1242E type) and padlock • Aluminium cable gland plate • Door retainer • Plastic document pocket (A4 size)	• Curved canopy • 3 mm double bar lock • Plastic document pocket (A4 size) • Door retainer • Aluminium cable gland plate	• Curved canopy • Rear panel • Handle with keylock (1242E type) and padlock • Aluminium cable gland plate • Door retainer • Plastic document pocket (A4 size)

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Outdoor Heavy Duty enclosures

Polyester outdoor Heavy Duty enclosures

- Outdoor Heavy Duty (HD) enclosures made of polyester insulating material. Suitable to be installed in public areas thanks to its features: Anti-pressure and shock resistant, anti-posting, insulated.
- Material: HD Polyester reinforced with fiberglass to meet the standard EN 439-5
- Colour: RAL 7035 grey
- Conditions of use: Outdoor and/or harsh environments
- Temperature range: -40...80°C
- Mechanical protection rating: IK10 according to IEC 62262
- Standards: IEC 61439-5: 2010, IEC 62208: 2011, IEC 61439-1: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009

Certifications: See table **page 418**

- Maximum load according to IEC 62208: 500 kg
- Other characteristics: Fire resistant (EN 1794-2:2011), Lifting possible from top with eyebolt accessory, new dedicated ventilation solutions to be integrated in roof, lateral or plinth. 3 ventilation architectures proposed (see **page 416** and **417**)
- Options: Plain door or ribbed door

Wall-mounting enclosure



NSYPHDT553

- Ingress protection rating: IP65 according to IEC 60529
- Fixing: On wall by means of optional wall fixing accessory

Supply:
Curved canopy
Handle with keylock (1242E type) and padlock
Door retainer
Plastic document pocket (A4 size)

Characteristics	Door type	No. of doors	Dimensions (H x W x D)	References
Wall-mounting enclosure	Anti-posting	1	538 x 500 x 320	**NSYPHDT553**
Wall-mounting enclosure	Anti-posting	1	788 x 500 x 320	**NSYPHDT753**
Wall-mounting enclosure	Plain	1	538 x 500 x 320	**NSYPHDT553P**
Wall-mounting enclosure	Plain	1	788 x 500 x 320	**NSYPHDT753P**

Floor-standing enclosure



NSYPHDZT774



NSYPHDZT774P

- Ingress protection rating: IP55 according to IEC 60529
- Fixing: 2 options for installation on floor:
- with floor fixing kit **NSYMF2PLAZ4** or **NSYMF2PLAZ6** for integrated plinth (50 mm)
- with additional ZZ plinths (ventilated or non-ventilated) available as accessory (200 mm) (see **page 409**)

Supply:
Curved canopy
Integrated plinth
Handle with keylock (1242E type) and padlock
Aluminium cable gland plate
Door retainer
Plastic document pocket (A4 size)

Characteristics	Door type	No. of doors	Dimensions (H x W x D)	References
Floor-standing enclosure	Anti-posting	1	843 x 750 x 420	**NSYPHDZT774**
Floor-standing enclosure	Anti-posting	1	843 x 750 x 620	**NSYPHDZT776**
Floor-standing enclosure	Anti-posting	1	1093 x 500 x 420	**NSYPHDZT1054**
Floor-standing enclosure	Anti-posting	1	1093 x 750 x 420	**NSYPHDZT1074**
Floor-standing enclosure	Anti-posting	1	1343 x 500 x 420	**NSYPHDZT1254**
Floor-standing enclosure	Anti-posting	1	1343 x 750 x 420	**NSYPHDZT1274**
Floor-standing enclosure	Anti-posting	1	1343 x 750 x 620	**NSYPHDZT1276**
Floor-standing enclosure	Anti-posting	2	1343 x 1250 x 420	**NSYPHDZT12124**
Floor-standing enclosure	Anti-posting	2	1343 x 1250 x 620	**NSYPHDZT12126**
Floor-standing enclosure	Anti-posting	1	1593 x 750 x 420	**NSYPHDZT1574**
Floor-standing enclosure	Anti-posting	1	1593 x 750 x 620	**NSYPHDZT1576**
Floor-standing enclosure	Anti-posting	2	1593 x 1250 x 420	**NSYPHDZT15124**
Floor-standing enclosure	Anti-posting	2	1593 x 1250 x 620	**NSYPHDZT15126**
Floor-standing enclosure	Anti-posting	2 Vertical	2093 x 750 x 420	**NSYPHDZT2074**
Floor-standing enclosure	Plain	1	843 x 750 x 420	**NSYPHDZT774P**
Floor-standing enclosure	Plain	1	843 x 750 x 620	**NSYPHDZT776P**
Floor-standing enclosure	Plain	1	1093 x 500 x 420	**NSYPHDZT1054P**
Floor-standing enclosure	Plain	1	1093 x 750 x 420	**NSYPHDZT1074P**
Floor-standing enclosure	Plain	1	1343 x 500 x 420	**NSYPHDZT1254P**
Floor-standing enclosure	Plain	1	1343 x 750 x 420	**NSYPHDZT1274P**
Floor-standing enclosure	Plain	1	1343 x 750 x 620	**NSYPHDZT1276P**
Floor-standing enclosure	Plain	2	1343 x 1250 x 420	**NSYPHDZT12124P**
Floor-standing enclosure	Plain	2	1343 x 1250 x 620	**NSYPHDZT12126P**
Floor-standing enclosure	Plain	1	1593 x 750 x 420	**NSYPHDZT1574P**
Floor-standing enclosure	Plain	1	1593 x 750 x 620	**NSYPHDZT1576P**
Floor-standing enclosure	Plain	2	1593 x 1250 x 420	**NSYPHDZT15124P**
Floor-standing enclosure	Plain	2	1593 x 1250 x 620	**NSYPHDZT15126P**
Floor-standing enclosure	Plain	2 Vertical	2093 x 750 x 420	**NSYPHDZT2074P**

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Outdoor Heavy Duty enclosures

Eyebolts


NSYPLHD

- Top lifting accessory for polyester outdoor Heavy Duty enclosure.
- Maximum load per enclosure: 500 kg.
- Material: Galvanised cast steel



Supply:
4

Characteristics	References
Eyebolts	**NSYPLHD**

Wall fixing accessory


NSYFMPHD

- Wall fixing support for polyester outdoor Heavy Duty enclosure.
- No change in ingress protection rate.
- Maximum load per enclosure: 180 kg
- Material: Zinc coated steel
- Finish: Zinc coating



Supply:
4

Characteristics	References
Wall fixing accessory	**NSYFMPHD**

Floor fixing kit


NSYMF2PLAZ4

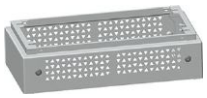
- To fix the enclosure on the floor without a plinth.
- Material: Steel
- Finish: Insulating coating
- Installation: On dry concrete



Supply:
1

Characteristics	Depth (mm)	References
Floor fixing kit	420	**NSYMF2PLAZ4**
Floor fixing kit	620	**NSYMF2PLAZ6**

Ventilated ZZ plinth 200 mm


NSYZZ254VHD

- Height: 200 mm.
- The front part can be removed with a 1242 key.
- Includes a polyester anti-insect filter.
- Material: Glass-reinforced polyester
- Colour: RAL 7035 grey



Note:
The coupling kit **NSYMUPLA●●●** is not applicable for enclosures using ZZ or ZH type plinths.

Supply:
1

Characteristics	Dimensions (W x D)	References
Ventilated ZZ plinth 200 mm	500 x 420	**NSYZZ254VHD**
Ventilated ZZ plinth 200 mm	750 x 420	**NSYZZ274VHD**
Ventilated ZZ plinth 200 mm	750 x 620	**NSYZZ276VHD**
Ventilated ZZ plinth 200 mm	1250 x 420	**NSYZZ2124VHD**
Ventilated ZZ plinth 200 mm	1250 x 620	**NSYZZ2126VHD**

ZZ plinth 200 mm


NSYZZ254G

- Height: 200 mm.
- The front and back plates can only be removed from the inside.
- It is provided with one or two reinforcement cross rails, adjustable to adapt to the position of the cables.
- Material: Glass-reinforced polyester
- Colour: RAL 7035 grey



Note:
The coupling kit **NSYMUPLA●●●** is not applicable for enclosures using ZZ or ZH type plinths.

Supply:
1

Characteristics	Depth (mm)	References
ZZ plinth 200 mm	500 x 420	**NSYZZ254G**
ZZ plinth 200 mm	750 x 420	**NSYZZ274G**
ZZ plinth 200 mm	750 x 620	**NSYZZ276G**
ZZ plinth 200 mm	1250 x 420	**NSYZZ2124G**
ZZ plinth 200 mm	1250 x 620	**NSYZZ2126G**

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Outdoor Heavy Duty enclosures

Plain mounting plate

- The enclosures with height of ≥ 1000 mm have intermediate bosses to fix the mounting plate (M8 inserts, ref. **NSYTEX8**, to be ordered separately).
- Material: Galvanised steel

Installation:

- Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 214)
- In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates

Supply:
1


NSYPMM55

Characteristics	Dimensions (H x W)	References
Plain mounting plate	538 x 500	**NSYPMM55**
Plain mounting plate	788 x 500	**NSYPMM75**
Plain mounting plate	843 x 750	**NSYPMM77**
Plain mounting plate	1093 x 500	**NSYPMM105**
Plain mounting plate	1093 x 750	**NSYPMM107**
Plain mounting plate	1343 x 500	**NSYPMM125**
Plain mounting plate	1343 x 750	**NSYPMM127**
Plain mounting plate	1343 x 1250	**NSYPMM1212**
Plain mounting plate	1583 x 750	**NSYPMM157**
Plain mounting plate	1583 x 1250	**NSYPMM1512**
Plain mounting plate (or 2 x **NSYPMM107**)	2093 x 750	**NSYPMM207**

Roof ventilation module

- Ventilation module to enable airing from the top of the enclosure (H = 95 mm).
- Material: Steel with anti-corrosive coating (C4H according ISO 12.944: 2018)
- Finish: Structured finish, 100 % polyester powder
- Colour: RAL 7035 grey



Supply:
1


NSYPCVR54HD

Characteristics	Dimensions (W x D)	References
Roof ventilation module	500 x 420	**NSYPCVR54HD**
Roof ventilation module	750 x 420	**NSYPCVR74HD**
Roof ventilation module	750 x 620	**NSYPCVR76HD**
Roof ventilation module	1250 x 420	**NSYPCVR124HD**
Roof ventilation module	1250 x 620	**NSYPCVR126HD**

Anti burglary accessory

- Anti burglary accessory for polyester outdoor Heavy Duty in accordance with ENV 1627-1630:2011 class 2.
- It keeps the Insulation Class II according to IEC 61439-1:2011.
- Material: Steel with anti-corrosive coating (C4H according ISO 12.944: 2018)
- Finish: Structured finish, 100 % polyester powder
- Colour: RAL 7035 grey
- Installation: Easy installation on the outside of the enclosure



Supply:
1


NSYBGN774HD

Characteristics	Dimensions (H x W x D)	References
Anti burglary accessory	843 x 750 x 420	**NSYBGN774HD**
Anti burglary accessory	843 x 750 x 620	**NSYBGN776HD**
Anti burglary accessory	1093 x 500 x 420	**NSYBGN1054HD**
Anti burglary accessory	1093 x 750 x 420	**NSYBGN1074HD**
Anti burglary accessory	1343 x 500 x 420	**NSYBGN1254HD**
Anti burglary accessory	1343 x 750 x 420	**NSYBGN1274HD**
Anti burglary accessory	1343 x 750 x 620	**NSYBGN1276HD**
Anti burglary accessory	1343 x 1250 x 420	**NSYBGN12124HD**
Anti burglary accessory	1343 x 1250 x 620	**NSYBGN12126HD**
Anti burglary accessory	1593 x 750 x 420	**NSYBGN1574HD**
Anti burglary accessory	1593 x 750 x 620	**NSYBGN1576HD**
Anti burglary accessory	1593 x 1250 x 420	**NSYBGN15124HD**
Anti burglary accessory	1593 x 1250 x 620	**NSYBGN15126HD**
Anti burglary accessory	2093 x 750 x 420	**NSYBGN2074HD**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Outdoor Heavy Duty enclosures

Steel outdoor HD enclosures

- Outdoor Heavy Duty (HD) enclosures made of coated steel.
- Suitable to be installed in private areas with harsh environments thanks to its capacity to resist: corrosion (up to C4H level according ISO 12944:2018), UV
- Material: HD steel with anti-corrosive coating
- Finish: Structured finish, 100 % polyester powder
- Colour: RAL 7035 grey
- Conditions of use: Outdoor and/or harsh environments
- Temperature range: -40...80°C
- Mechanical protection rating: IK10 according to IEC 62262
- Standards: IEC 61439-5: 2010, IEC 62208: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009, ISO 12.944: 2018 (C4H)
- Certifications: See table **page 418**
- Other characteristics: New dedicated ventilation solutions to be integrated in roof, side or plinth

Supply:
Curved canopy
Plastic document pocket (A4 size)
Door retainer
Aluminium cable gland plate

Wall-mounting enclosure

- Ingress protection rating: IP66 according to IEC 60529
- Fixing: On wall by means of optional stainless steel wall fixing lugs, on post by means of optional HD post fixing device
- Maximum load according to IEC 62208: 200 kg

Supply:
3 mm double bar lock


NSYS3HD3215

Characteristics	Dimensions (H x W x D)	References
Wall-mounting enclosure	343 x 200 x 180	**NSYS3HD3215**
Wall-mounting enclosure	448 x 300 x 230	**NSYS3HD4320**
Wall-mounting enclosure	548 x 400 x 230	**NSYS3HD5420**
Wall-mounting enclosure	653 x 400 x 280	**NSYS3HD6425**
Wall-mounting enclosure	658 x 600 x 330	**NSYS3HD6630**
Wall-mounting enclosure	753 x 500 x 280	**NSYS3HD7525**
Wall-mounting enclosure	858 x 600 x 330	**NSYS3HD8630**
Wall-mounting enclosure	862 x 800 x 430	**NSYS3HD8840**
Wall-mounting enclosure	1062 x 600 x 430	**NSYS3HD10640**
Wall-mounting enclosure	1062 x 800 x 430	**NSYS3HD10840**

Floor-standing enclosure

- Ingress protection rating: IP55 according to IEC 60529
- Fixing: Directly on floor by means of optional plinth
- Maximum load according to IEC 62208: 1000 kg

Supply:
Rear panel
Handle with keylock (1242E type) and padlock


NSYSFHD12640

Characteristics	Dimensions (H x W x D)	References
Floor-standing enclosure	1262 x 600 x 430	**NSYSFHD12640**
Floor-standing enclosure	1262 x 800 x 430	**NSYSFHD12840**
Floor-standing enclosure	1262 x 1200 x 430	**NSYSFHD1212402D**
Floor-standing enclosure	1281 x 600 x 630	**NSYSFHD12660**
Floor-standing enclosure	1281 x 800 x 630	**NSYSFHD12860**
Floor-standing enclosure	1281 x 1200 x 630	**NSYSFHD1212602D**
Floor-standing enclosure	1662 x 800 x 430	**NSYSFHD16840**
Floor-standing enclosure	1662 x 1200 x 430	**NSYSFHD1612402D**
Floor-standing enclosure	1681 x 600 x 630	**NSYSFHD16660**
Floor-standing enclosure	1681 x 800 x 630	**NSYSFHD16860**
Floor-standing enclosure	1681 x 1200 x 630	**NSYSFHD1612602D**
Floor-standing enclosure	2062 x 800 x 430	**NSYSFHD20840**

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Outdoor Heavy Duty enclosures

Side panels for floor-standing enclosures

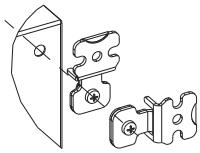
- Side panel fixing for SFHD.
- Material: Steel with anti-corrosive coating (C4H according ISO 12.944: 2018)
- Finish: Structured finish, 100 % polyester powder
- Colour: RAL 7035 grey

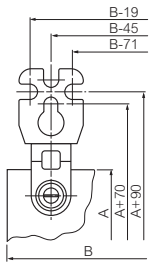
Supply:
2 side panels with fixing elements and sealing gasket


NSY2SPHD124

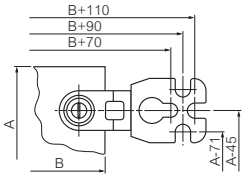
Characteristics	Dimensions (H x D)	References
Side panels, external fixing	1262 x 430	**NSY2SPHD124**
Side panels, external fixing	1281 x 630	**NSY2SPHD126**
Side panels, external fixing	1662 x 430	**NSY2SPHD164**
Side panels, external fixing	1681 x 630	**NSY2SPHD166**
Side panels, external fixing	2060 x 430	**NSY2SPHD204**
Side panels, internal fixing	1262 x 430	**NSY2SPIHD124**
Side panels, internal fixing	1281 x 630	**NSY2SPIHD126**
Side panels, internal fixing	1662 x 430	**NSY2SPIHD164**
Side panels, internal fixing	1681 x 630	**NSY2SPIHD166**
Side panels, internal fixing	2060 x 430	**NSY2SPIHD204**

Stainless steel wall fixing lugs





Vertical position



Horizontal position

A: Enclosure height
B: Enclosure width

- Set of 4 wall fixing lugs.
- Mounted directly on the rear of the enclosure, either in horizontal or vertical position.
- Wall-enclosure separation of 12 mm.
- Do not use for dynamic loads.
- Maximum load: 250 kg

Supply:
Supplied with fixing screws and pre-mounted sealing gaskets


NSYAEFPFXSC

Characteristics	References
Wall fixing lugs, 304L stainlesssteel, for outdoor enclosure	**NSYAEFPFXSC**

Heavy Duty padlockable double lock, for wall-mounting enclosures

- Easy mounting instead of the standard lock.
- Material: Zamak
- Finish: Anti-corrosive coating

Supply:
Delivered with 3 mm double bar metal key


NSYAEDLPADS3DHD

Characteristics	References
Heavy Duty padlockable double lock	**NSYAEDLPADS3DHD**

11

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Life Is On Schneider Electric

Outdoor Heavy Duty enclosures

Stainless steel plinths 200 mm

- Material: Stainless steel AISI 304L
- Finish: Scotch-Brite® brushing

Installation: For wall-mounting enclosure: It is necessary to order separately the plinth fixing kit (ref. **NSYAPFXWM**) composed by fixing hardware and drilling template, for floor-standing enclosure: Mounting in the holes for fixing the enclosures to the floor

Ventilated plinths, front and rear kit

Supply: 1 kit

- The front and rear of the plinth consists of 4 corners with 2 panels.



NSYSPFVX6200

Characteristics	Width (mm)	References
Ventilated plinths, front and rear kit	600	**NSYSPFVX6200**
Ventilated plinths, front and rear kit	800	**NSYSPFVX8200**
Ventilated plinths, front and rear kit	1200	**NSYSPFVX12200**

Ventilated plinths, lateral kit

Supply: 1 kit

- They are fixed to the corner of the plinth by fixing screws.



NSYSPLVX4200SF

Characteristics	Depth (mm)	References
Ventilated plinths, for wall-mounting enclosure	330	**NSYSPLVX3200**
Ventilated plinths, for wall-mounting enclosure	430	**NSYSPLVX4200**
Ventilated plinths, for floor-standing enclosure	430	**NSYSPLVX4200SF**
Ventilated plinths, for floor-standing enclosure	630	**NSYSPLVX6200SF**

Standard plinths, front and rear kit

Supply: 1 kit

- The front and rear of the plinth consists of 4 corners with 2 panels.



NSYSPFX6200

Characteristics	Width (mm)	References
Plinth height 200 mm, Kit (4 corners + front and back), AISI 304L	600	**NSYSPFX6200**
Plinth height 200 mm, Kit (4 corners + front and back), AISI 304L	800	**NSYSPFX8200**
Plinth height 200 mm, Kit (4 corners + front and back), AISI 304L	1200	**NSYSPFX12200**

Standard plinths, lateral kit

Supply: 1 kit

- They are fixed to the corner of the plinth by fixing screws.



NSYSPSX3200

Characteristics	Depth (mm)	References
Standard plinths height 200 mm, for wall-mounting enclosure, AISI 304L	330	**NSYSPSX3200**
Standard plinths height 200 mm, for wall-mounting enclosure, AISI 304L	430	**NSYSPSX4200**
Standard plinths height 200 mm, for floor-standing enclosure, AISI 304L	430	**NSYSPSX4200SF**
Standard plinths height 200 mm, for floor-standing enclosure, AISI 304L	630	**NSYSPSX6200SF**

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Outdoor Heavy Duty enclosures

Plain mounting plate

[1] Plate with reversible dimensions; It can be installed in enclosures with inverted dimensions. Example: Plate ref. **NSYMM64** can be used for the following enclosures: H 600 x W 400 mm or H 400 x W 600 mm. For plain and silkscreened mounting plates: In wall-mounting enclosures with widths of 1000 and 1200 mm, it is possible to install 2 mounting plates at different depths using an additional central step slide **NSYSDRSDCR●●●** (more information on page 233). unting plate and fixing elements

Supply:
1 mounting plate and fixing elements

- Material: Galvanised steel


NSYMM32


NSYMP126

Characteristics	Dimensions (H x W)	References
Plain mounting plate, for wall-mounting enclosure	300 x 200	**NSYMM32**
Plain mounting plate, for wall-mounting enclosure	500 x 400	**NSYMM54**
Plain mounting plate, for wall-mounting enclosure	600 x 400	**NSYMM64**
Plain mounting plate, for wall-mounting enclosure	600 x 600	**NSYMM66**
Plain mounting plate, for wall-mounting enclosure	700 x 500	**NSYMM75**
Plain mounting plate, for wall-mounting enclosure [1]	800 x 600	**NSYMM86**
Plain mounting plate, for wall-mounting enclosure	800 x 800	**NSYMM88**
Plain mounting plate, for wall-mounting enclosure	1000 x 600	**NSYMM106**
Plain mounting plate, for wall-mounting enclosure [1]	1000 x 800	**NSYMM108**
Plain mounting plate, for floor-standing enclosure	1200 x 600	**NSYMP126**
Plain mounting plate, for floor-standing enclosure	1200 x 800	**NSYMP128**
Plain mounting plate, for floor-standing enclosure	1200 x 1200	**NSYMP1212**
Plain mounting plate, for floor-standing enclosure	1600 x 600	**NSYMP168**
Plain mounting plate, for floor-standing enclosure	1600 x 800	**NSYMP1612**
Plain mounting plate, for floor-standing enclosure	1600 x 1200	**NSYMP166**
Plain mounting plate, for floor-standing enclosure	2000 x 800	**NSYMP208**

Roof ventilation module

- Ventilation module to enable airing from the top of the enclosure (H = 95 mm).
- Material: Steel with anticorrosive coating
- Finish: Structured finish, 100 % polyester powder
- Colour: RAL 7035 grey

Supply:
1


NSYS3CVR84HD

Characteristics	For enclosure dimensions (W x D)	References
Roof ventilation module, for wall-mounting enclosure	600 x 430	**NSYS3CVR64HD**
Roof ventilation module, for wall-mounting enclosure	800 x 430	**NSYS3CVR84HD**
Roof ventilation module, for floor-standing enclosure	600 x 430	**NSYSFCVR64HD**
Roof ventilation module, for floor-standing enclosure	600 x 630	**NSYSFCVR66HD**
Roof ventilation module, for floor-standing enclosure	800 x 430	**NSYSFCVR84HD**
Roof ventilation module, for floor-standing enclosure	800 x 630	**NSYSFCVR86HD**
Roof ventilation module, for floor-standing enclosure	1200 x 430	**NSYSFCVR124HD**
Roof ventilation module, for floor-standing enclosure	1200 x 630	**NSYSFCVR126HD**

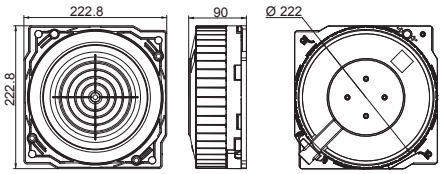
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Life Is On Schneider Electric

Outdoor Heavy Duty enclosures

Ventilation system Heavy duty

Fanbox



- Free flow rate: 550 m³/h (50/60 Hz).
- Minimal depth inside the enclosure (90 mm).
- Allows multiple cooling architectures (see page 416 and 417).
- Material: Plastic
- Colour: RAL 7016 dark grey

Supply:
1 (grille not included)


NSYCVF550M24FB

Characteristics	Voltage	References
Fanbox	24 V DC	**NSYCVF550M24FB**
Fanbox	48 V DC	**NSYCVF550M48FB**
Fanbox	115 V AC	**NSYCVF550M115FB**
Fanbox	230 V AC	**NSYCVF550M230FB**

Filter

- Replacement G3 M1 type synthetic filter for HD metal grille.
- Dimensions: 215 x 215 mm.
- Material: 100 % polyester fibres
- Colour: White

Supply:
5


NSYCAF223T

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References
G3 M1 synthetic fine filters	268	248	18	223 x 223	**NSYCAF223T**

Roof filter for fanbox

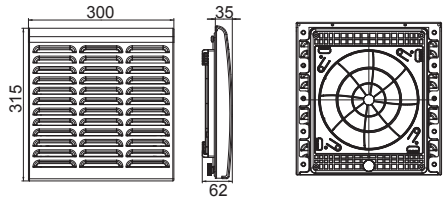
- Roof G2 round synthetic filter designed to cover the fanbox. Covers completely the fanbox and helps to protect it from dust and humidity. Mandatory for fanbox installation in the Roof ventilation module for IP55 configurations.
- Material: 100 % polyester fibres
- Colour: White

Supply:
1

NSYCAF190

Characteristics	References
Roof filter for fanbox	**NSYCAF190**

IP55 HD Metal Grille



- Slim grille (35 mm external depth).
- Includes a G3 M1
- Material: Steel with anti-corrosive coating + plastic PA6 / GF25 for fixing frame
- Finish: Structured finish, 100 % polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
1 grille delivered with G3 M1 type synthetic filter (215 x 215 mm) and fixings


NSYCAG223LFHD

Characteristics	References
IP55 HD Metal Grille	**NSYCAG223LFHD**

Anti-vandalism kit for HD metal grille

Note:
not compatible with **NSYSPLA150**

- Fixings that help to prevent to open the grille from the outside with standard tools (EN 1627-1630:2011 Class 2).
- Quick installation without tools.
- Material: Steel with anticorrosive coating + plastic for fixing screws

Supply:
4 grip knob
4 clip nuts

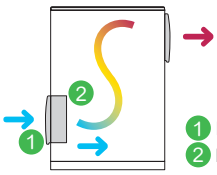

NSYCAAPVHD

Characteristics	References
Anti-vandalism kit for HD metal grille	**NSYCAAPVHD**

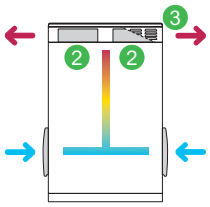
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Outdoor Heavy Duty enclosures



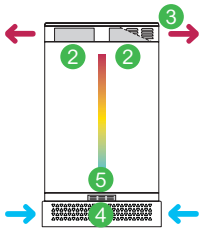
1 IP55 metal grille
2 Fanbox



2 Fanbox
3 Roof ventilated module

	S-Line				T-Line				
Architecture benefits	• Most common and competitive architecture • Maximum heat dissipation to extract 800 W-1000 W • ΔT° of 5°C • Easy access to mount-dismount fanbox • Air flow in horizontal axis				• High capacity of extraction calories up to 1500 W • Noise level with 1 fan: 55 dB when installed inside the upper ventilation module • ΔT° of 5°C • Air flow in vertical axis				
	IP55 metal grille		Fanbox		IP55 metal grille		Fanbox (1 filter NSYCAF190 for each Fanbox)	Roof ventilation module	
	Door	Side	Door	Side	Door	Side			
Polyester outdoor HD enclosure									
References	Amount to be installed				Amount to be installed				References
NSYPHDT553	-	-	-	-	-	-	-	-	-
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1054	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	**NSYPCVR54HD**
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1254	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	**NSYPCVR54HD**
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
Steel outdoor HD enclosure									
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	**NSYS3CVR64HD**
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYSFHD12640	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR64HD**
NSYSFHD12660	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR66HD**
NSYSFHD12840	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFECA66HD**
NSYSFHD16660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1	1	**NSYSFCVR66HD**
NSYSFHD16840	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFECA66HD**
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD1212402D	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1212602D	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR126HD**
NSYSFHD1612402D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1612602D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR126HD**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.



2 Fanbox
3 Roof ventilated module
4 Ventilated plinths
5 IP54 grille

This table helps to configure thermal architectures, but it is highly recommended to use ProClima Software to ensure the right thermal solution according to the selected architecture.

I-Line

- Integrated architecture particularly suitable for public areas
- High capacity of extraction calories up to 1500 W
- Noise level with 1 fan: 55 dB when installed inside the upper ventilation module
- Good extraction flow rate power
- Air flow in vertical axis

IP54 outlet grille (**NSYCAG223LPF** + G3 filter **NSYCAF223T**)		Ventilated plinths		Fanbox (1 filter **NSYCAF190** for each Fanbox)		Roof ventilation module
Amount to be installed		References		Amount to be installed		References
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1	1	**NSYZZ254VHD**	-	1	1	**NSYPCVR54HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2124VHD**	-	1 to 3	1	**NSYPCVR124HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 3	1	**NSYZZ2126VHD**	-	1 to 3	1	**NSYPCVR126HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ276VHD**	-	1 to 2	1	**NSYPCVR76HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**
1 to 2	1	**NSYZZ274VHD**	-	1 to 2	1	**NSYPCVR74HD**

1	1	**NSYSPFVX6200**	**NSYSPSX3200**	-	-	-
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX4200**	1	1	**NSYS3CVR64HD**
1	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX4200**	1	1	**NSYSFCVR64HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX6200**	1	1	**NSYSFCVR66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFECA66HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX6200**	1	1	**NSYSFCVR66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFECA66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYSFCVR84HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX4200**	1 to 3	1	**NSYSFCVR124HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX6200**	1 to 3	1	**NSYSFCVR126HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX4200**	1 to 3	1	**NSYSFCVR124HD**
1 to 3	1	**NSYSPFVX12200**	**NSYSPLVX6200**	1 to 3	1	**NSYSFCVR126HD**

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Outdoor Heavy Duty enclosures

POLYESTER Thalassa PHD				
Test description	Standard	Standard title	Certification	Declaration
IP55, IK10, lifting: 500 kg max. (IP65 for wall-mounting)	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Class II Insulation	IEC 61439-1: 2011	Low-voltage switchgear and controlgear assemblies Part 1: General rules	-	✓
Strength of materials and parts	IEC 61439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H. It affects the painted accessories (ventilated roof, anti-burglary kit). All other metallic parts have special treatment to pass the same test.	ISO 12.944: 2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	-	✓
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stifness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: Environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: Basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Fire resistance	EN 1794-2:2011	Vandalism: Fire resistance	-	✓
Posting	Internal test	Door anti-posting internal test	-	✓
Single door: types 1, 2, 3, 3R, 4, 4X, 5, 12 and 13 Double door: types 1, 2, 3, 3R, 5, 12 and 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
Spacial SFHD (floor-standing enclosures)				
IP55, IK10, lifting: 1000 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stifness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: Environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: Basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: Types 1, 3R, 12, 12K Double door: Types 1, 3R, 12, 12K	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
Spacial S3HD (wall-mounting enclosures)				
IP66, IK10, lifting: 200 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: Laboratory performance testing methods	●	-
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stifness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: Environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: Basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: Types 1, 2, 3, 3R, 4, 4X. 5, 12 and 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-

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Outdoor Heavy Duty enclosures

Test description	Standard	Standard title	Certification	Declaration
HD ACCESSORIES HD THERMAL Management, Fanbox				
NSYCVF Series are intended for mounting on the flat surface of a Type 12 or 12K enclosure	UL 508A CAN/CSA-C22.2 No. 14, CAN/CSA C22.2 No. 94-M91 CAN/CSA C22.2 No. 73	Industrial Control Panels Industrial Control Equipment Special Purpose Enclosures Electrically Equipped Machine Tools	●	-
IP55 HD Metal grille (NSYCAG223LFHD)				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance C4H	ISO 12.944: 2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems - part 6: Laboratory performance testing methods	●	-
Anti-vandalism kit for HD metal grille (NSYCAAPVHD)				
Resistance Class 2	ENV 1627:2011	Burglar resistance - Requirements and classification	●	-
Upper ventilation module (PHD / SFHD / S3HD)				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)		✓
Corrosion resistance at level C4H	ISO 12.944: 2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: Laboratory performance testing methods	●	-
HD POLYESTER ENCLOSURES				
Anti burglary accessory (NSYBGN•••HD)				
Resistance Class 2	ENV 1627:2011	Burglar resistance - Requirements and classification	●	-
Corrosion resistance at level C4H	ISO 12.944: 2018	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: Laboratory performance testing methods	●	-
ZZ plinths (NSYZZ••• and NSYZZ•••VHD)				
ZZ Plinth: IP44 (in conditions of use) Ventilated ZZ Plinth: IP43 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Eyebolts (NSYPLHD)				
Maximum load 500 kg	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	-	✓
HD STEEL ENCLOSURES				
Stainless steel plinths (NSYSPFVX••• / NSYSPLVX••• / NSYSPSX••• / NSYSPSX•••)				
Ventilated plinth: IP20 (in conditions of use) Standard plinth: IP30 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓

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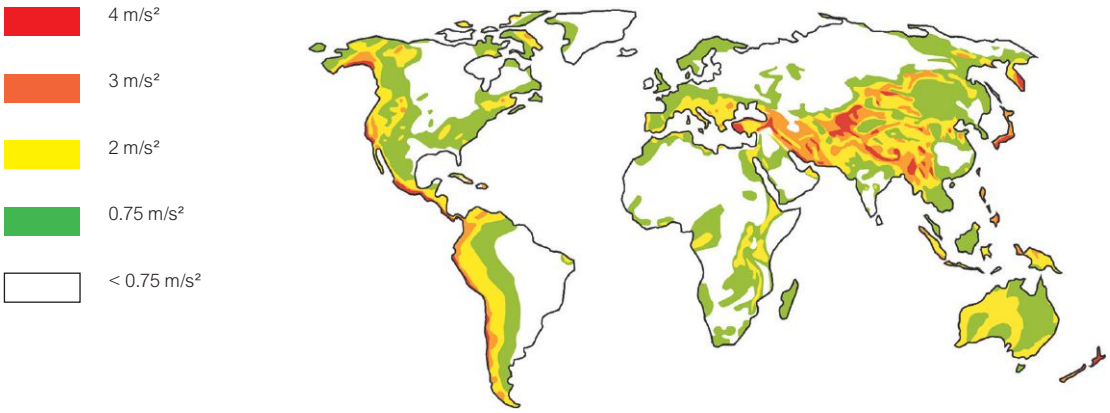
Seismic and nuclear enclosures

SF S3D

The seismic risk

New

No point of the globe is immune to an earthquake.
However, the probability of being subjected to an earthquake of a given intensity varies from one location to another.
The map below, taken from IEC 60721-2-6 (Figure 5), shows the distribution of the seismic risk on the 5 continents.



Spacial enclosures and the seismic constraint

Spacial standard range solutions

The Spacial standard offers have been qualified for use in areas subject to medium intensity earthquakes (ground acceleration ≤ 3 m/s²).
For details of the seismic resistance of the standard offers, see in each chapter for the following offers:

- S3D, CRN, CRNG et 19" wall mounting enclosures,
- SBM industrial boxes,
- SF enclosures (automation and monitoring/control),
- SFP enclosures (functional system for low-voltage electricity distribution),
- 19" SF enclosures (pivoting rack).

Enclosures for strong earthquakes

In order to meet the requirements of high-seismic zones (ground acceleration ≥ 4 m/s²), Schneider Electric has developed 3 offers:

- floor-standing enclosures SF 6G and SFP 5G,
- wall-mounting enclosure S3D 6G,
- wall-mounting enclosure S3D 6G K3 meeting the requirements of the nuclear power industry specified by EDF (Electricité de France) and the ASN (Agence de Sûreté Nucléaire).

Certifications

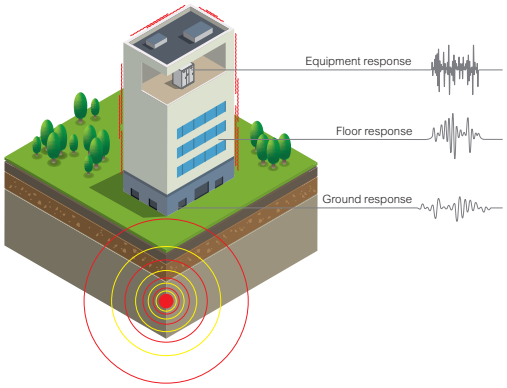
All tests have been performed according to the following technical regulations:

- IEC 60068-3-3 (first edition): International standard. Environmental testing – Part 3 : Guidance – Seismic test methods for equipment
- CRT 91-C-112-00: Seismic resistance of equipment Generic provisions for bi-axial testing using accelerograms
- IEC 60980: Recommended practices for seismic qualification of electrical equipment of the safety system for nuclear generating stations

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Seismic and nuclear enclosures

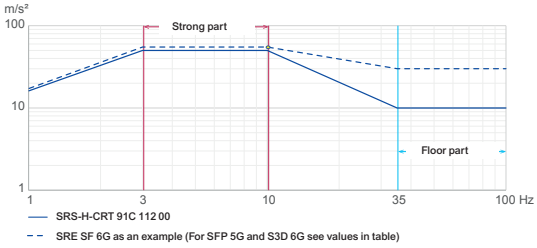
SF S3D



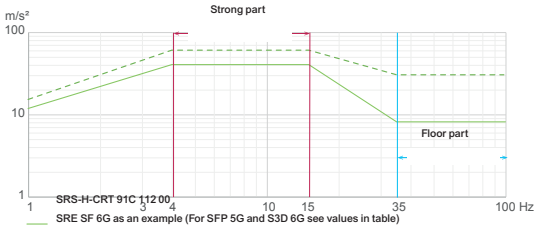
Geology Equivalence between scales characterizing the earthquake		
MSK	Richter	IEC 60068-3-3 (ground acc.)
<VIII	< 5.5	2 m/s²
VIII to IX	≥ 5.5 and ≤ 7	3 m/s²
>IX	> 7	5 m/s²

Civil engineering Example acceleration levels on the floor of a building (RRS)	
All types of building (IEC 60068-3-3)	EDF specification for nuclear power plant. Anticipating the possible rise in the RRS level in a subsequent revision of CRT 91 C 112.
6 m/s²	
9 m/s²	10 m/s² - 8 m/s²
15 m/s²	20 m/s² - 24 m/² *

Equipment performance tested according to CRT 91 C 112 00



Products	Floor part acc	Strong part acc
SFP 5G	20 m/s²	50 m/s²
SF 6G*	30 m/s²	50 m/s²
S3D 6G*	30 m/s²	55 m/s²



Products	Floor part acc	Strong part acc
SFP 5G	20 m/s²	40 m/s²
SF 6G*	30 m/s²	60 m/s²
S3D 6G*	30 m/s²	80 m/s²

Technical information

New

Seismic standards

There is no single international standard. The standards depend on each country/zone and are linked to civil engineering standards.

The main ones are:

- International Building Code (I.B.C. Ex UBC)
- IEC 60068-3-3,
- EDF specification CRT 91C11200 (ex-HN-20-E-53)
- GR CORE 63 Telcordia

The Spacial enclosures have been tested according to standards IEC 60068-3-3 and CRT 91-C-112-00.
CRT 91-C-112-00 is one of the most restrictive specifications, and for which it is therefore more difficult to obtain certification.

To define the seismic resistance of equipment, it is necessary to take into account the geological characteristics of the earthquake and the behavior of the building, and compare these with the equipment's seismic performance.

Definitions

Ground acceleration: Ground acceleration resulting from an earthquake.
Note: In practice, ground acceleration can be broken down into horizontal and vertical components.
Floor acceleration: Ground acceleration measured on a particular floor in a building (at the location of an equipment item).
Note: In practice, floor acceleration can be broken down into horizontal and vertical components.
Required response spectrum (RRS): Representation of the amplification of the ground acceleration caused by the structure or equipment according to the wave frequency. Used for determining equipment dimensions and qualifying the equipment.
Test response spectrum (TRS): Representation of the amplification of tested products during tests on vibrating table.

Two parts are defined in the response spectra:

- **Floor part:** On the product zone in contact with the vibrating table there is no amplification of the acceleration. The acceleration value recorded for the spectrum is that measured on the ground.
- **Strong part:** The acceleration value recorded for the spectrum is the maximum amplified acceleration expected at the center of gravity of the equipment. This is not a measurable quantity but a mathematical representation.

Conclusion: The TRS values are to be compared with the RRS values. If they are greater, the equipment will resist the effects of the earthquake.

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Seismic and nuclear enclosures

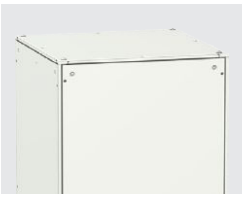
The **Spacial SF 6G** enclosures have been designed to withstand earthquakes corresponding to UBC Zone 4.

New

Spacial SF 6G for seismic risks

SF





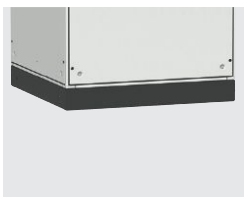
Panel mounting

- 12 fastening points by M6 screws per panel..



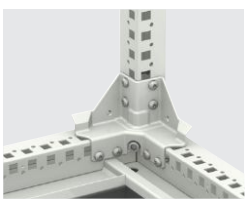
Security locking system

- Seismic locking system.
- Special connecting rods and handle to prevent any accidental door opening under severe vibration conditions.



Plinths

- Enhanced mechanical strength (monobloc structure).
- Assembled on the enclosure.
- Floor fixing: 10 fastening points by M12 screws.



Multi-purpose corners

- To strengthen the enclosure and respond to seismic risks.
- To strengthen fastening of the side panels and rear panel.
- To fasten the door connecting rods.

11

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Seismic and nuclear enclosures

Spacial SF 6G for seismic risks


NSYSF6G20680

- Enclosures designed to be installed in UBC Zone 4.
- They have been tested with a plain mounting plate and 19" rack.
- Integrated plinth.
- Material: Steel
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262
- Maximum load: 80 kg/m² on plain mounting plate, in compliance with the IEC 61587-2 standard
- Standards: IEC 62208 (enclosure) - IEC 60068-3-3 (seismic methods to apply for materials)
- Certifications: 6G certification as per CRT 91-C-112-00 (EDF) - UL 508 types 1, 3R, 12

Supply:
Framework
- 1 upper frame with roof
- 1 lower frame
- 1 rear panel
- 4 uprights
- 8 multi-purpose reinforcement corners
- 8 cross rails fastened to the framework contributing to the seismic resistance (3 left, 3 right, 2 rear)

Plinth
- Monobloc base 4 mm thick, 100 mm high

Door
- Plain door with EDF 1600 captive key lock
- 3 fastening points with connecting rods
- Door hinges on right (opposite direction available on request)

Coupling
- Possibility to couple SF 6G enclosures with the coupling kits ref. **NSYSFBK19** + **NSYSFBKR**
- Possibility to couple plinth with the ref. **NSYPLK6G**

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Spacial SF 6G	2000	600	800	**NSYSF6G20680** New
Spacial SF 6G	2000	800	600	**NSYSF6G20860** New
Spacial SF 6G	2000	800	800	**NSYSF6G20880** New

Side panels


NSY6G2SP204

- Enclosures designed to be installed in UBC Zone 4.
- They have been tested with a plain mounting plate and 19" rack.
- Integrated plinth.
- Material: Steel
- Installation: 12 fastening points

Supply:
2 side panels and fasteners

Characteristics	Height (mm)	Depth (mm)	References
Side panel	2000	400	**NSY6G2SP204** New
Side panel	2000	600	**NSY6G2SP206** New
Side panel	2000	800	**NSY6G2SP208** New

Mounting plate


NSYMP206

- Material: Galvanised steel
- Installation: Mounting plate to be installed with **NSYSFPB6G** fastening kit + **NSYHLCR●●** cross rails

Supply:
1 mounting plate and sliding shoes

Characteristics	Height (mm)	Depth (mm)	References
Mounting plate	2000	600	**NSYMP206**
Mounting plate	2000	800	**NSYMP208**

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Seismic and nuclear enclosures

Rails for heavy load

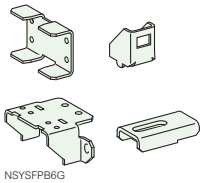

NSYHLCR40

- Material: Zinc-coated steel

Supply:
2 cross rails and fixing elements

Characteristics	Depth (mm)	References
Rails for heavy load	400	**NSYHLCR40** New
Rails for heavy load	600	**NSYHLCR60** New
Rails for heavy load	800	**NSYHLCR80** New

Reinforced fixing kit for mounting plate


NSYSFPB6G

- Material: Steel

Supply:
6 anti-vibration supports
4 mounting brackets
4 supports
2 connectors and fixing elements

Characteristics	References
Reinforced fixing kit for mounting plate	**NSYSFPB6G** New

Trim cap for SF 6G panels

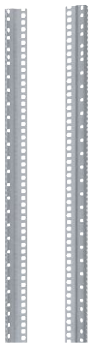

NSYCSP6G

- Material: Plastic

Supply:
50 units

Characteristics	References
Trim cap for SF 6G panels	**NSYCSP6G** New

19" fixed uprights


NSYRCK42

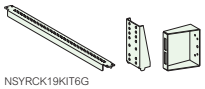
- Uprights designed to be assembled on enclosures 800 mm wide
- and 800 mm deep.
- Material: Zinc-coated steel
- Fixing: To fasten the 19" uprights, it is necessary to use the fixing kit **NSYRCK19KIT6G**

Note:
For a 19" seismic configuration, 4 uprights must be used

Supply:
2 uprights and fasteners,

Characteristics	References
19" fixed uprights	**NSYRCK42** New

19" fixed uprights


NSYRCK19KIT6G

- Material: Steel

Supply:
4 cross rails
8 fastening brackets
4 reinforcements
Fixing elements

Characteristics	References
19" fixed uprights	**NSYRCK19KIT6G** New

Optional locks for cubicle


NSYAEDLEDF9K33

- With captive key.
- Material: Polyamide handle, metal connecting rods and cam

Supply:
3-point lock with
1 lock button and
1 cremone bolt

Characteristics	References
Optional lock for cubicle, EDF 900	**NSYAEDLEDF9K33** New
Optional lock for cubicle, EDF 1300	**NSYAEDLEDF13K33** New
Optional lock for cubicle, EDF 1400	**NSYAEDLEDF14K33** New
Optional lock for cubicle, 1242E	**NSYAEDL1242K33** New
Optional lock for cubicle, 405E	**NSYAEDL405K33** New
Optional lock for cubicle, 455E	**NSYAEDL455K33** New

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Seismic and nuclear enclosures

Local seismic standards: Conformity with acceleration severity levels

Standards	Specifications
EDF book of technical rules **CRT 91C11200**	"Large equipment" MRI RRS: Horizontal: Floor acceleration = 2 g Amplified max. acceleration at center of gravity = 5 g Vertical: Floor acceleration = 2.4 g Amplified max. acceleration at center of gravity = 6 g
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 3. Nuclear market: MSK intensity 9, level 2.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s² Importance factor = 1.3

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Seismic and nuclear enclosures

Spacial SF 6G for seismic risks

Busbar compartment enclosure, available depths

Height	Width			
	300	400	600	800
2200	-	600	-	-
2000	500 / 600 / 800	400 / 500 / 600 / 800	-	-
1800	-	400 / 500 / 600	-	-
1600	-	-	-	-
1400	-	-	-	-
1200	-	-	-	-

Enclosure equipped with plain mounting plate, available depths

Height	Width			
	300	400	600	800
2200	-	-	600 / 800	600 / 800
2000	-	-	500	500
1800	-	-	400 / 500 / 600 / 800	400 / 500 / 600
1600	-	-	600 / 800	600 / 800
1400	-	-	400	400
1200	-	-	400 / 600	400 / 600

Enclosure equipped with 19" fixed rack, available depths

Height	Width			
	300	400	600	800
2200	-	-	-	800
2000	-	-	-	-
1800	-	-	-	600
1600	-	-	-	800
1400	-	-	-	-
1200	-	-	-	-

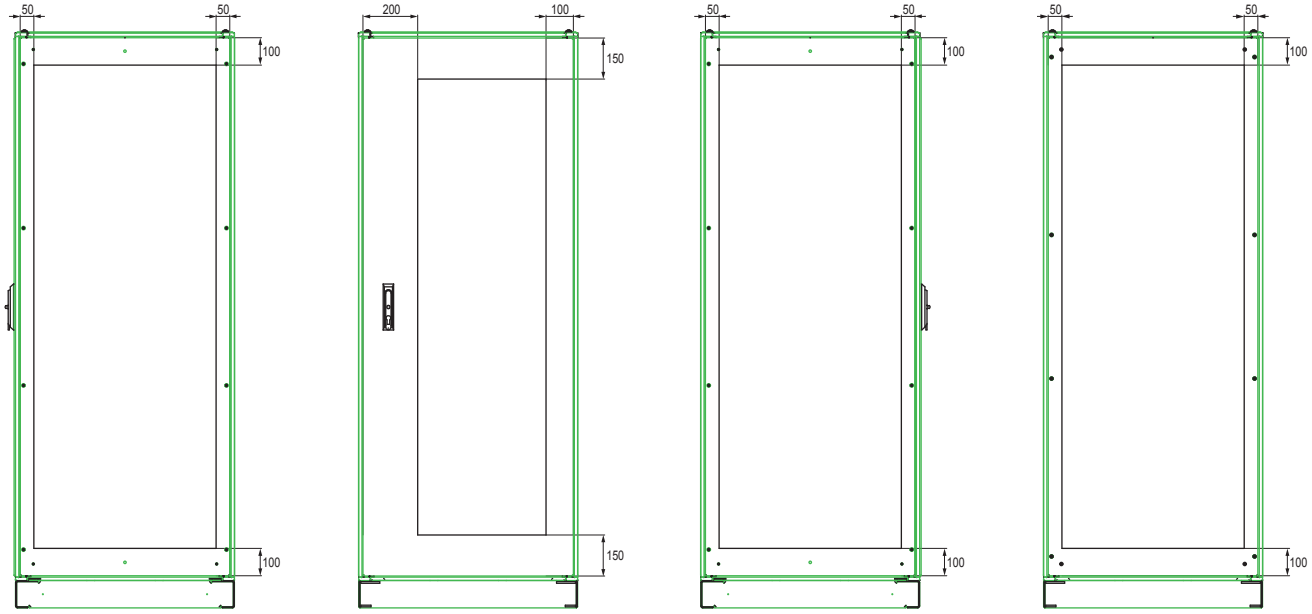
Note:
Special dimensions available on demand

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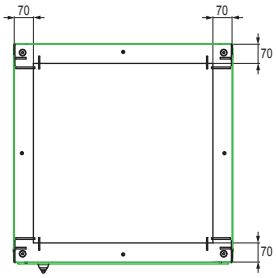
Seismic and nuclear enclosures

Spacial SF 6G for seismic risks

Cut-outs



Top view



Note:
Customization areas guaranteeing 6G resistance

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Seismic and nuclear enclosures

The **Spacial SF 5G** enclosures have been designed to withstand earthquakes corresponding to UBC Zone 4.

Spacial SF 5G for seismic risks

SF

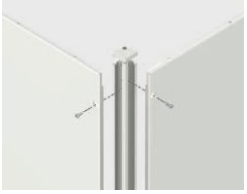




Panel mounting
- 12 fastening points by M6 screws per panel..



Security locking system
- Seismic locking system.
- Special connecting rods and handle to prevent any accidental door opening under severe vibration conditions.



Plinths
- Enhanced mechanical strength (monobloc structure).
- Assembled on the enclosure.
- Floor fixing: 10 fastening points by M12 screws.



Multi-purpose corners
- To strengthen the enclosure and respond to seismic risks.
- To strengthen fastening of the side panels and rear panel.
- To fasten the door connecting rods.



Security locking system
- Seismic locking system.
- Special connecting rods and handle to prevent any accidental door opening under severe vibration conditions.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Seismic and nuclear enclosures

Spacial SFP 5G for seismic risks

Enclosure with plain door


NSYSFP5G20750

- Enclosures designed to be installed in UBC Zone 4.
- Monobloc base to enhance the structure's mechanical strength.
- 2 configurations with devices have been tested: 1600 A and 3200 A.
- Material: Steel
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262
- Maximum load: 350 kg for configuration 1800 A, 450 kg for configuration 3200 A
- Standards: IEC 62208 (enclosure) - IEC 60068 (seismic methods to apply for materials)
- Certifications: 5G certification as per CRT 91-C-112-00 (EDF) - UL 508 types 1, 3R, 12

Note:
NB:
- The width (300 mm) of the Spacial SFP 5G cubicle for the busbar duct is not compatible with the Spacial SF 5G cubicle.
- The customer must ensure good cubicle/base connection.

Supply:
Framework
- Reinforcing cross for improved structural strength
- 4 uprights fitted with Rivkle nuts

Characteristics	Configuration (A)	Height (mm)	Width (mm)	Depth (mm)	References
Enclosure with plain door	1600	2000	700	500	**NSYSFP5G20750**
Enclosure with plain door	3200	2000	700	800	**NSYSFP5G20780**

Compartment for busbars with plain door

Characteristics	Configuration (A)	Height (mm)	Width (mm)	Depth (mm)	References
Compartment for busbars with plain door	1600	2000	300	500	**NSYSF5G20350**
Compartment for busbars with plain door	3200	2000	300	800	**NSYSF5G20380**

Side panels

Characteristics	Height (mm)	Depth (mm)	References
Side panels	2000	500	**NSY5G2SP205**
Side panels	2000	800	**NSY5G2SP208**

100 mm plinth

Characteristics	Width (mm)	Depth (mm)	References
100 mm plinth	700	500	**NSYS5GPC75**
100 mm plinth	300	500	**NSYS5GPC35**
100 mm plinth	700	800	**NSYS5GPC78**
100 mm plinth	300	800	**NSYS5GPC38**

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Seismic and nuclear enclosures

Spacial SFP 5G for seismic risks

Local seismic standards: Conformity with acceleration severity levels Standards or specifications	Specifications
EDF book of technical rules CRT 91C11200	**Required response spectrum:** **Horizontal:** • Floor acceleration = 1 g • Amplified max. acceleration at center of gravity = 5 g **Vertical:** • Floor acceleration = 0.8 g • Amplified max. acceleration at center of gravity = 4 g
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 2. Nuclear market: MSK intensity 9, level0.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s² Importance factor = 1.3

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Seismic and nuclear enclosures

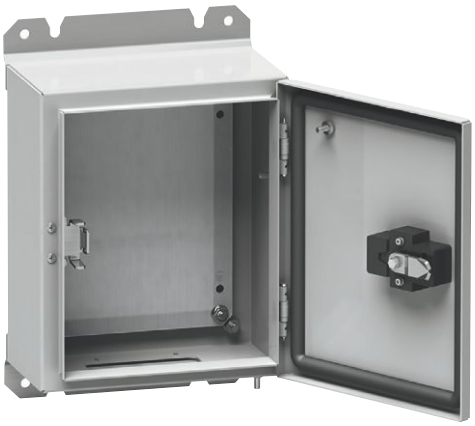
SF enclosures for seismic risks Compatibility of accessories

Accessories Trade references impacted	Description	SF 6G compatibility	SFP 5G compatibility (Prisma system)	Comments
NSYSDT●	Folding mounting shelf	Please contact us	Compatible	• Depends on size
NSYSDP●M	Metal document holder	Please contact us	Compatible	Depends on size
NSYDPA●●	Plastic document holder	Compatible	Compatible	-
NSYMP●●●	Mounting plate	Compatible	-	Position 200 mm mini from the rear panel
NSYSUCR●●	Universal cross rail	Compatible	-	-
NSYSQCR●●	Quick cross rail	Compatible	-	-
NSYSICR●●	Integrated cross rail	Compatible	-	-
NSYHLCR●●	Cross rail for heavy loads	Compatible	-	-
NSYSLCR●●	Light cross rail	Compatible	-	-
NSYFXT●●●●	Fixed Trays	Compatible	-	-
NSYSPMP●	Partial plain mounting plate	Compatible	-	-
NSYSTMP●●	Telequick mounting plate	Compatible	-	-
NSYSDCR●●	Door cable-guide cross rail	Compatible	Compatible	Select the smaller-sized cross rail

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Seismic and nuclear enclosures

Spacial S3D 6G cubicles are designed to withstand earthquakes up to UBC zone 4.







Strength

Panel thickness:

- Casing + door: 20/10 mm;
- Entry flange: 15/10 mm.



Reinforced mounting plate

- Mounting plate reinforcement.
- Increased number of attachment points.



Security locking system

- EDF 1600 security locking system with captive key.



Wall mounting

- Reinforced bracket for wall mounting.

11

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Seismic and nuclear enclosures

Spacial S3D 6G solutions for seismic risks

- Seismic applications up to UBC zone 4.
- Material: Steel
- Ingress protection rating: IP65 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262
- Maximum load: 80 kg/m² on plain mounting plate, 250 kg on 19" fixed uprights in compliance with the IEC 61587-2 standard
- Standards: IEC 62208 (enclosure) - IEC 60068-3-3 (seismic methods to apply for materials)
- Certifications: 6G certification as per CRT 91-C-112-00 (EDF)

Supply:
Body
- Monobloc casing (cross structure). Gutter-shaped front profile. Flat back
- M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing
- Entry flange
- Maximum load: 10 kg

Door
- Plain door with EDF 1600 captive key lock
  - H < 600: 1 fastening point
  - H ≥ 600: 3 fastening points
- Non-reversible door (for reversibility, please contact us)
- M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing
- 120° door opening
- Maximum load: 10 kg

Mounting plate
- Mounting plate galvanized before mounting
- Maximum load: 80 kg/m²
- Two wall mounting brackets


NSYS3D6G32515P

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Spacial S3D seismic plain door with mount.plate	300	250	150	**NSYS3D6G32515P**
Spacial S3D seismic plain door with mount.plate	400	300	200	**NSYS3D6G4320P**
Spacial S3D seismic plain door with mount.plate	600	500	250	**NSYS3D6G6525P**
Spacial S3D seismic plain door with mount.plate	700	500	250	**NSYS3D6G7525P**
Spacial S3D seismic plain door with mount.plate	800	600	300	**NSYS3D6G8630P**
Spacial S3D seismic plain door with mount.plate	1200	800	400	**NSYS3D6G12840P**

Locks for cubicle

- ≤ H 600
- With captive key.
- Material: Zamak lock and metal cam

Supply:
1- or 3-point lock with 1 lock button and 1 cremone bolt


NSYAEDLEDF9K31

Characteristics	Key lock	References
Lock for cubicle	EDF 900	**NSYAEDLEDF9K31**
Lock for cubicle	EDF 1300	**NSYAEDLEDF13K31**
Lock for cubicle	EDF 1400	**NSYAEDLEDF14K31**
Lock for cubicle	1242E	**NSYAEDL1242K31**
Lock for cubicle	405E	**NSYAEDL405K31**
Lock for cubicle	455E	**NSYAEDL455K31**

Locks for cubicle

- > H 600
- With captive key.
- Material: Polyamide handle, metal connecting rods and cam

Supply:
3-point lock with 1 lock button and 1 cremone bolt


NSYAEDLEDF9K33

Characteristics	Key lock	References
Lock for cubicle	EDF 900	**NSYAEDLEDF9K33**
Lock for cubicle	EDF 1300	**NSYAEDLEDF13K33**
Lock for cubicle	EDF 1400	**NSYAEDLEDF14K33**
Lock for cubicle	1242E	**NSYAEDL1242K33**
Lock for cubicle	405E	**NSYAEDL405K33**
Lock for cubicle	455E	**NSYAEDL455K33**

Padlocking lug

- Securing of cubicle access.
- Material: White galvanized steel


NSYAEDLPADS3DK3

Characteristics	References
Padlocking lug	**NSYAEDLPADS3DK3**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Seismic and nuclear enclosures

Local seismic standards: Conformity with acceleration severity levels

Standards	Specifications
EDF book of technical rules CRT 91C11200	**Large equipment" MRI RRS:** **Horizontal:** • Floor acceleration = 2 g • Amplified max. acceleration at center of gravity = 5 g **Vertical:** • Floor acceleration = 2.4 g • Amplified max. acceleration at center of gravity = 6 g
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 3. Nuclear market: MSK intensity 9, level 2.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s² Importance factor = 1.3

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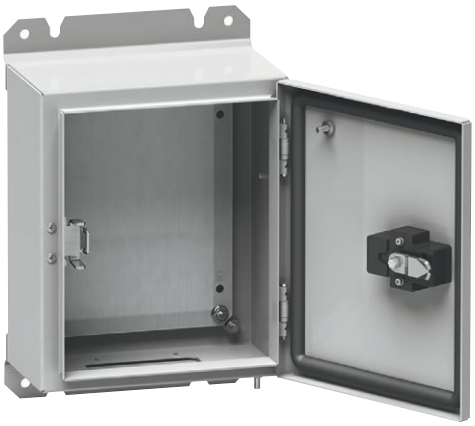
Table of Compatibility of accessories in 6G seismic S3D cubicles

Accessories		Compatibility	Comments	Trade references impacted
	19" rack	Limited	Conditions: Drilling by customization department to be provided for	**NSYVDM●●●●**
	Door switch	Limited	Conditions: Drilling by customization department to be provided for	**NSYINLCRN**
	Diagram holder	Yes	-	**NSYDPA●●**
	Lifting rings	Limited	Conditions: Drilling by customization department to be provided for	**NSYAELYTCRG8**

Comment: None of the accessories is certified 6G.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

The Spacial S3D 6G K3 cubicle meets K3 requirements in accordance with RCCE 2012.







Strength

Panel thickness:

- Casing + door: 20/10 mm;
- Entry flange: 15/10 mm.



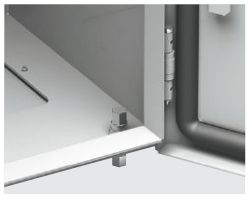
Reinforced mounting plate

- Mounting plate reinforcement.
- Increased number of attachment points.



Decontaminatable smooth paint, PID 100 series

- In compliance with CCTR 91.C.031.06 Two coats of paint (minimum thickness: 60 µ).
- Epoxy polyester powder, PID 100 series.
- PIA-PIC 100 on request.



Earth continuit

- Earth continuity between the interior and exterior of the cubicle is provided by 2 opposite welded studs (external earth screw principle).



Security locking system

- EDF 1600 security locking system with captive key.



Wall mounting

- Reinforced bracket for wall mounting.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Seismic and nuclear enclosures

Spacial S3D 6G K3 solutions for nuclear applications

Seismic application for nuclear power station.
- Material: Steel
- Ingress protection rating: IP65 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262
- Standards: IEC 62208 - IEC 60068-3-3 (seismic methods to apply for materials)
- Certifications: 6G certification as per CRT 91-C-112-00 (EDF)
- Meets K3 requirements in accordance with RCCE 2012
- EDF reference documents:
- CCTR paint and FNP file;
- RCC-E: Electrical equipment construction code;
- Packaging technical specification;
- "PMUC" (products and materials used in nuclear generating stations)

Supply:
Body
- Monobloc casing (cross structure). Gutter-shaped front profile. Flat back
- M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing
- Entry flange
- Maximum load: 10 kg

Door
- Plain door with EDF 1600 captive key lock
  - H < 600: 1 fastening point
  - H ≥ 600: 3 fastening points
- Non-reversible door (for reversibility, please contact us)
- M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing
- 120° door opening
- Maximum load: 10 kg

Mounting plate
- Mounting plate galvanized before mounting
- Maximum load: 80 kg/m²
- Two wall mounting brackets


NSYS3D32515PK3

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Spacial S3D seismic plain door with mount.plate	300	250	150	**NSYS3D32515PK3**
Spacial S3D seismic plain door with mount.plate	400	300	200	**NSYS3D4320PK3**
Spacial S3D seismic plain door with mount.plate	600	500	250	**NSYS3D6525PK3**
Spacial S3D seismic plain door with mount.plate	700	500	250	**NSYS3D7525PK3**
Spacial S3D seismic plain door with mount.plate	800	600	300	**NSYS3D8630PK3**
Spacial S3D seismic plain door with mount.plate	1200	800	400	**NSYS3D12840PK3**

Locks for cubicle

- ≤ H 600
- With captive key.
- Material: Zamak lock and metal cam

Supply:
1- or 3-point lock with 1 lock button and 1 cremone bolt


NSYAEDLEDF9K31

Characteristics	Key lock	References
Lock for cubicle	EDF 900	**NSYAEDLEDF9K31**
Lock for cubicle	EDF 1300	**NSYAEDLEDF13K31**
Lock for cubicle	EDF 1400	**NSYAEDLEDF14K31**
Lock for cubicle	1242E	**NSYAEDL1242K31**
Lock for cubicle	405E	**NSYAEDL405K31**
Lock for cubicle	455E	**NSYAEDL455K31**

Locks for cubicle

- > H 600
- With captive key.
- Material: Polyamide handle, metal connecting rods and cam

Supply:
3-point lock with 1 lock button and 1 cremone bolt


NSYAEDLEDF9K33

Characteristics	Key lock	References
Lock for cubicle	EDF 900	**NSYAEDLEDF9K33**
Lock for cubicle	EDF 1300	**NSYAEDLEDF13K33**
Lock for cubicle	EDF 1400	**NSYAEDLEDF14K33**
Lock for cubicle	1242E	**NSYAEDL1242K33**
Lock for cubicle	405E	**NSYAEDL405K33**
Lock for cubicle	455E	**NSYAEDL455K33**

Padlocking lug

- Securing of cubicle access.
- Material: White galvanized steel


NSYAEDLPADS3DK3

Characteristics	References
Padlocking lug	**NSYAEDLPADS3DK3**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Table of Compatibility of accessories in 6G seismic S3D cubicles

Accessories		Compatibility	Comments	Trade references impacted
	19" rack	Limited	Conditions: Drilling by customization department to be provided for	**NSYVDM●●●●**
	Door switch	Limited	Conditions: Drilling by customization department to be provided for	**NSYINLCRN**
	Diagram holder	Yes	-	**NSYDPA●●**
	Lifting rings	Limited	Conditions: Drilling by customization department to be provided for	**NSYAELYTCRG8**

Comment: None of the accessories is certified 6G.

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Seismic and nuclear enclosures

Special dimensions

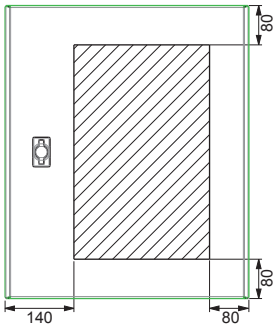
Height	Width					
	250	300	400	500	600	800
1200	-	-	-	-	200/250/300/400	200/250/300/400
1000	-	-	-	-	200/250/300/400	200/250/300/400
800	-	-	200/250/300	200/250/300	200/250/400	200/250/300
700	-	-	200/250/300	200/300	200/250/300/400	-
600	-	-	200/250/300	200/300	200/250/300/400	-
500	200	150/200/250	200/250/300	200/250/300	-	-
400	150/200	150/250	-	-	-	-
300	150/200	150/200/250	-	-	-	-

Note:
We meet the K3 requirements as per RCCE 2012 for the special dimensionsmentioned below. These dimensions appear in the Reference File.

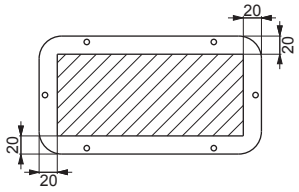
Cut-outs

Customization areas ensuring K3 certification

Door



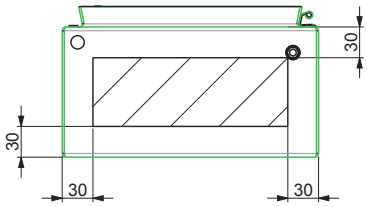
Entry flange



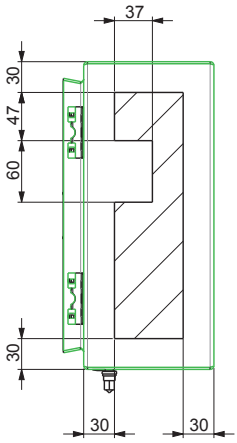
Depth	A
150	65
200	82
250	98
300	115
400	148

Casing

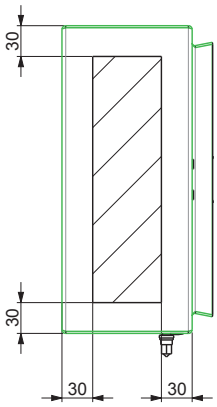
Bottom view

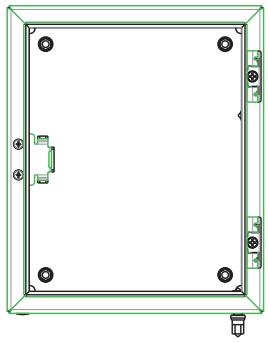


Hinge side view

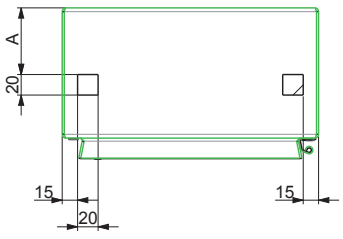


Closing lock side view





Top view



Note:
We meet the K3 requirements as per RCCE 2012 for the cut-outs mentioned below.These cut-outs appear in the Reference File.

11

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Seismic and nuclear enclosures

Paints

AFNOR / RAL	Colors of PIA-PID 100 series	Colors of PIC 100 series
AFNOR	1550	1550
AFNOR	1570	1570
AFNOR	2550	2550
AFNOR	2570	2570
RAL	1003	1003
RAL	5005	5005
RAL	5024	5024
RAL	7036	7036

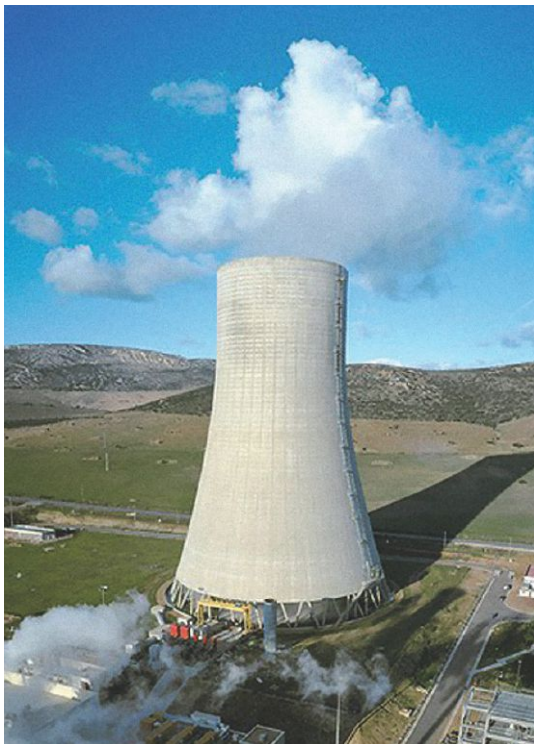
Note:
Referencing of the following paints in the FNP (national paint file):
Others colors available: Consult us.

Packaging



Note:
We can produce a special corrosion protection packaging (Gardac type).

S3D



Our range of Spacial 3D nuclear cubicles meets the K3 requirements of RCCE 2012. The Schneider Electric cubicle production plant has established processes to ensure K3 certification.

Establishment of a line architecture adapted to the requirements mentioned in RCCE 2012, implying:

- Hold points;
- Check points;
- Control of "AIP" activities that are important for protection

Manufacturing completion report with:

- Declaration of conformity.
- Monitoring document.
- Report and test report.

Establishment of a Particular Quality Assurance Plan (PQAP)

Reference documents for the nuclear industry:

- RCC-E, CCTR, FNP, packaging technical specification, "PMUC" (products and materials used in nuclear generating stations), SGAQ-2013-03, Arrêté INB 2012

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Seismic and nuclear enclosures

S3D

Nuclear safety has 3 objectives

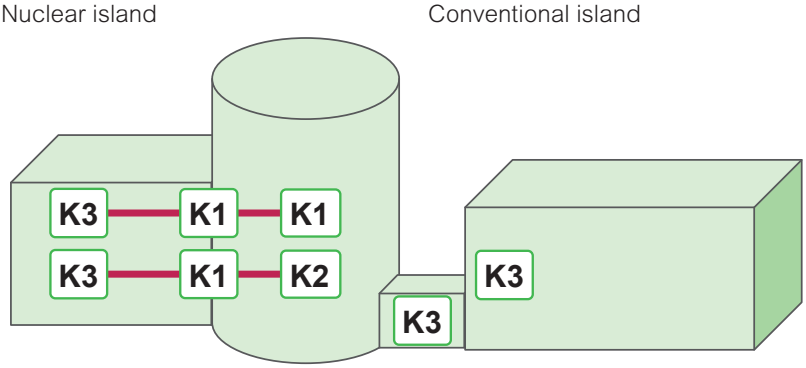
Control reactivity	Cool the fuel	Confine radioactive products

Technical choices and safety rules

The technical choices and safety rules are stipulated by the operator with full responsibility relative to the French nuclear safety authority (ASN) (representing the state) depending on the location in the installation and whether or not they form part of the safety circuits. The products undergo tests to ensure their operation in accidental conditions.



A safety circuit consists of several equipment items. Their certification depends on their location. Equipment interfacing between the core and the other buildings is always K1 (risk of radioactive leakage).



Certifications necessary to work in the nuclear industry

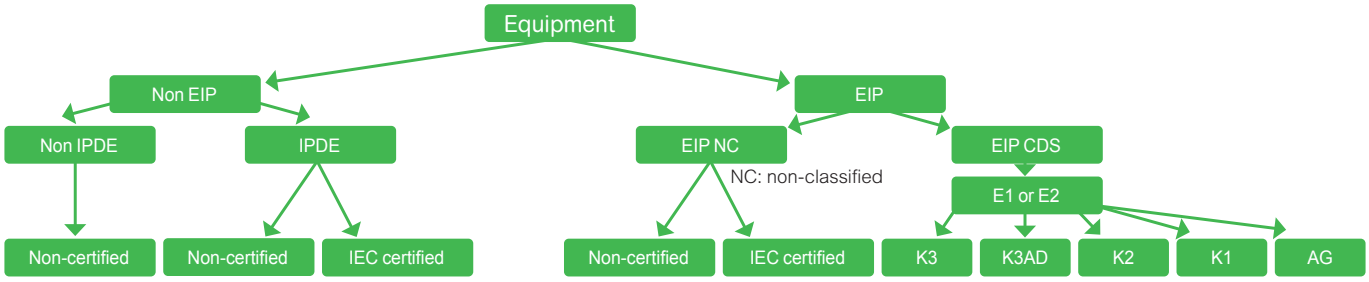
2 certifications are necessary to work in the nuclear industry

1• Product and equipment certifications imply demanding performances validated by technical documents and by tests. In the event of a change in the product, it must be explained and justified that the initial certification is maintained.

2• Certifications of industrial organizations and services related to products and equipment.

The products equipping French nuclear facilities in this catalogue comply with the RCC-E 2012 standard.

Terminology of equipment classifications used in nuclear power stations



EIP: Equipment Important for Protection.
IPDE: Important for operating availability.
CDS: Safety-classified.
Schneider is concerned only by E1 (elec. classification).

Tests corresponding to specific classifications for EIP equipment

- K3 > ref. tests + functional operating limits + ageing + earthquake
- K3AD > K3 + environmental resistance (irradiation, heat, spraying)
- K2 > K3 + resistance to ageing irradiation (250 Kgy)
- K1 > K2 + resistance to accidental irradiation (600 Kgy) + ADR
- AG > K1 reinforced only for EPR power stations

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Electronic application

Spacial VDM





This range can be configured according to your needs

4 differents services available

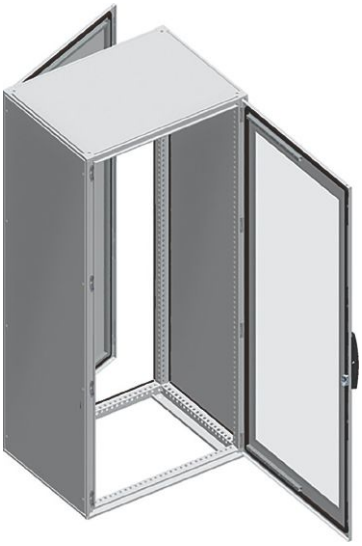
Assemble to order

Mounting of standard accessories

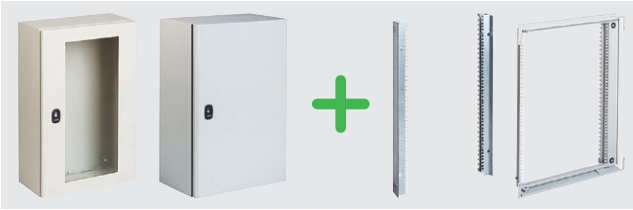
Painting

Machining

Spacial SF



Spacial S3D





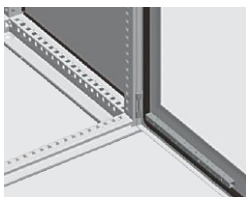
Practical

- Cable gland plates at top and bottom:
- on the rear part (2-body enclosure),
- on the body (1-body enclosure).



Simplified installation

- Pre-installed fixed or swing rack; Earth connection placed between the door and the body; The enclosure is ready to use; The cardboard packaging can be reused after cabling.



Suitable metal enclosure

- Enclosure prepared for the installation of standard 19" racks in professional telecommunication, voice, data and electronic facilities, by means of 19" fixed and swing racks, see page 452.

See page 522 for details or consult our web site www.se.com

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Electronic application

Spacial VDM 19"

- Single-piece body, folded and welded.
  Front rail with double sheet thickness, gutter-shaped.
- Perforated rails on the door, with drill holes of Ø 4.2 mm in steps of 25 mm.
- Transparent door, Securit® glass, easily removable and reversible, with 20 mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges. Three closure points for heights of more than 600 mm.
- Polyurethane gasket.
- 6 mm² earth connection placed between the door and the body of the enclosure.
- Material: Steel
- Finish: Structured finish, epoxi-polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP66 according to IEC 60529
- Mechanical protection rating: IK08 according to IEC 62262

Supply:
Wall-mounting enclosure supplied with 3 mm double bar lock as standard

Fixed rack


NSYVDM5U4F

- Maximum load: 3 kg per unit

Characteristics	Number of U	Height (mm)	Width (mm)	Depth (mm)	References
Fixed rack, 1-body	5	300	600	400	**NSYVDM5U4F**
Fixed rack, 1-body	8	400	600	400	**NSYVDM8U4F**
Fixed rack, 1-body	10	500	600	400	**NSYVDM10U4F**
Fixed rack, 1-body	14	700	600	400	**NSYVDM14U4F**
Fixed rack, 1-body	17	800	600	400	**NSYVDM17U4F**

Swing rack

Other characteristics:
- Enclosure in 2 pieces: Body + door
- Cable gland plate at the bottom of the enclosure
- Fixed rack depth-adjustable in steps of 25 mm using the step slides


NSYVDM4U4P

- Maximum load: 3 kg per unit

Characteristics	Number of U	Height (mm)	Width (mm)	Depth (mm)	References
Swing rack, 1-body	4	300	600	400	**NSYVDM4U4P**
Swing rack, 1-body	7	400	600	400	**NSYVDM7U4P**
Swing rack, 1-body	9	500	600	400	**NSYVDM9U4P**
Swing rack, 1-body	13	700	600	400	**NSYVDM13U4P**
Swing rack, 1-body	16	800	600	400	**NSYVDM16U4P**

Fixed rack

Other characteristics:
Rear
- Depth: 150 mm
- Internal attachment point for fixing various supports
- Hinges and locking system with the body
- Cable gland plate at the top and bottom on the rear part

Body
- Usable depth of 183 or 283 mm
- Two 19" uprights made from treated steel, installed 65 mm back from the front panel
- Intermediate body installed on the rear with 120° hinge


NSYVD2M5U4

- Maximum load: 2 kg per unit

Characteristics	Number of U	Height (mm)	Width (mm)	Depth (mm)	References
Fixed rack, 2-bodies	5	300	600	380	**NSYVD2M5U4**
Fixed rack, 2-bodies	5	300	600	480	**NSYVD2M5U5**
Fixed rack, 2-bodies	8	400	600	380	**NSYVD2M8U4**
Fixed rack, 2-bodies	8	400	600	480	**NSYVD2M8U5**
Fixed rack, 2-bodies	10	500	600	380	**NSYVD2M10U4**
Fixed rack, 2-bodies	10	500	600	480	**NSYVD2M10U5**
Fixed rack, 2-bodies	14	700	600	380	**NSYVD2M14U4**
Fixed rack, 2-bodies	14	700	600	480	**NSYVD2M14U5**
Fixed rack, 2-bodies	17	800	600	380	**NSYVD2M17U4**
Fixed rack, 2-bodies	17	800	600	480	**NSYVD2M17U5**

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Electronic application

Spacial S3D Empty enclosure

- Single-piece body (cross-shaped structure). Gutter-shaped front profile with double fold. Flat rear.
- Cable gland plate with marking for easy drilling and to guarantee the maximum access surface; Delivered with the enclosure. This plate is flush with the body of the enclosure.
- Glazed door, 4 mm-thick Securit® glass, easily removable and reversible, with 20 mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges (From the height of 800 mm).
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating according to IEC 60529: IP66 for the single-door enclosures, IP55 for the double door enclosures
- Mechanical protection rating according to IEC 62262: IK10 for the plain-door enclosures, IK08 for the glazed-door enclosures
- Maximum load: 50 kg/m²
- Fixing: Direct wall-mounting (4 Ø 10 holes for the sealing plugs guaranteeing the IP) or with the help of fixing lugs installed from the outside (to be ordered separately, see page 51)
- Other characteristics: For heights from 600 mm, three locking points with linkage, with a single control point. Simple reversal of linkage

A handle is delivered which provides 2 functions:

- operating key
- tool for loosening the stud protection caps.

This handle can be solidly attached to the locking system by means of a captive element
Perforated rails on the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm:

- 2 vertical rails from the height of 400 mm
- 2 vertical rails and 2 horizontal rails from the width of 800 mm

Note:
Door opening to 180°
with optional hinges (page 60)

Supply:
Wall-mounting enclosure supplied with 3 mm double bar lock as standard

Glazed door


NSYS3D4620T

Characteristics	Fixed rack	Swing rack	Height (mm)	Width (mm)	Depth (mm)	References
Glazed door	NSYVDM8UF	NSYVDM7UP	400	600	200	**NSYS3D4620T**
Glazed door	NSYVDM8UF	NSYVDM7UP	400	600	250	**NSYS3D4625T**
Glazed door	NSYVDM12UF	NSYVDM11UP	600	600	200	**NSYS3D6620T**
Glazed door	NSYVDM12UF	NSYVDM11UP	600	600	250	**NSYS3D6625T**
Glazed door	NSYVDM12UF	NSYVDM11UP	600	600	300	**NSYS3D6630T**
Glazed door	NSYVDM12UF	NSYVDM11UP	600	600	400	**NSYS3D6640T**
Glazed door	NSYVDM17UF	NSYVDM16UP	800	600	200	**NSYS3D8620T**
Glazed door	NSYVDM17UF	NSYVDM16UP	800	600	250	**NSYS3D8625T**
Glazed door	NSYVDM17UF	NSYVDM16UP	800	600	300	**NSYS3D8630T**
Glazed door	NSYVDM17UF	NSYVDM16UP	800	600	400	**NSYS3D8640T**
Glazed door	NSYVDM21UF	NSYVDM20UP	1000	600	250	**NSYS3D10625T**
Glazed door	-	-	1000	600	300	**NSYS3D10630T**
Glazed door	NSYVDM21UF	NSYVDM20UP	1000	600	400	**NSYS3D10640T**
Glazed door	-	NSYVDM20U8P	1000	800	250	**NSYS3D10825T**
Glazed door	-	NSYVDM20U8P	1000	800	300	**NSYS3D10830T**
Glazed door	-	NSYVDM20U8P	1000	800	400	**NSYS3D10840T**
Glazed door	-	NSYVDM25U8P	1200	800	300	**NSYS3D12830T**
Glazed door	-	NSYVDM25U8P	1200	800	400	**NSYS3D12840T**

Plain door


NSYS3D4620

Characteristics	Fixed rack	Swing rack	Height (mm)	Width (mm)	Depth (mm)	References
Plain door	NSYVDM8UF	NSYVDM7UP	400	600	200	**NSYS3D4620**
Plain door	NSYVDM8UF	NSYVDM7UP	400	600	250	**NSYS3D4625**
Plain door	NSYVDM12UF	NSYVDM11UP	600	600	200	**NSYS3D6620**
Plain door	NSYVDM12UF	NSYVDM11UP	600	600	250	**NSYS3D6625**
Plain door	NSYVDM12UF	NSYVDM11UP	600	600	300	**NSYS3D6630**
Plain door	NSYVDM12UF	NSYVDM11UP	600	600	400	**NSYS3D6640**
Plain door	NSYVDM17UF	NSYVDM16UP	800	600	200	**NSYS3D8620**
Plain door	NSYVDM17UF	NSYVDM16UP	800	600	250	**NSYS3D8625**
Plain door	NSYVDM17UF	NSYVDM16UP	800	600	300	**NSYS3D8630**
Plain door	NSYVDM17UF	NSYVDM16UP	800	600	400	**NSYS3D8640**
Plain door	NSYVDM21UF	NSYVDM20UP	1000	600	250	**NSYS3D10625**
Plain door	-	-	1000	600	300	**NSYS3D10630**
Plain door	NSYVDM21UF	NSYVDM20UP	1000	600	400	**NSYS3D10640**
Plain door	-	NSYVDM20U8P	1000	800	250	**NSYS3D10825**
Plain door	-	NSYVDM20U8P	1000	800	300	**NSYS3D10830**
Plain door	-	NSYVDM20U8P	1000	800	400	**NSYS3D10840**
Plain door	-	NSYVDM25U8P	1200	800	300	**NSYS3D12830**
Plain door	-	NSYVDM25U8P	1200	800	400	**NSYS3D12840**

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Life Is On Schneider Electric

Electronic application

Spacial S3D Fixed rack (The racks are to be ordered separately)

- 19" fixed chassis composed by 2 19" uprights with fixing hardware.
- Thickness: 20/10e mm.
- Material: Galvanized steel
- Maximum load: 3 kg per unit

Note:
Adjustable in depth by fixing on the step slides in accessories (see page 48).



NSYVDM8UF

Characteristics	Number of U	Height (mm)	Width (mm)	Depth (mm)	References
Fixed rack	8	400	600	200	**NSYVDM8UF**
Fixed rack	8	400	600	250	**NSYVDM8UF**
Fixed rack	12	600	600	200	**NSYVDM12UF**
Fixed rack	12	600	600	250	**NSYVDM12UF**
Fixed rack	12	600	600	300	**NSYVDM12UF**
Fixed rack	12	600	600	400	**NSYVDM12UF**
Fixed rack	17	800	600	200	**NSYVDM17UF**
Fixed rack	17	800	600	250	**NSYVDM17UF**
Fixed rack	17	800	600	300	**NSYVDM17UF**
Fixed rack	17	800	600	400	**NSYVDM17UF**
Fixed rack	21	1000	600	250	**NSYVDM21UF**
Fixed rack	21	1000	600	400	**NSYVDM21UF**

Spacial S3D Swing rack (The racks are to be ordered separately)

- 19" swing chassis opening to 120° with closure by 3 mm double bar insert.
- Material: Steel
- Finish: Epoxy polyester powder
- Colour: RAL 7035 grey
- Maximum load: 3 kg per unit



NSYVDM7UP

Characteristics	Number of U	Height (mm)	Width (mm)	Depth (mm)	References
Swing rack	7	400	600	200	**NSYVDM7UP**
Swing rack	7	400	600	250	**NSYVDM7UP**
Swing rack	11	600	600	200	**NSYVDM11UP**
Swing rack	11	600	600	250	**NSYVDM11UP**
Swing rack	11	600	600	300	**NSYVDM11UP**
Swing rack	11	600	600	400	**NSYVDM11UP**
Swing rack	16	800	600	200	**NSYVDM16UP**
Swing rack	16	800	600	250	**NSYVDM16UP**
Swing rack	16	800	600	300	**NSYVDM16UP**
Swing rack	16	800	600	400	**NSYVDM16UP**
Swing rack	20	1000	600	250	**NSYVDM20UP**
Swing rack	20	1000	600	400	**NSYVDM20UP**
Swing rack	20	1000	800	250	**NSYVDM20U8P**
Swing rack	20	1000	800	300	**NSYVDM20U8P**
Swing rack	20	1000	800	400	**NSYVDM20U8P**
Swing rack	25	1200	800	300	**NSYVDM25U8P**
Swing rack	25	1200	800	400	**NSYVDM25U8P**

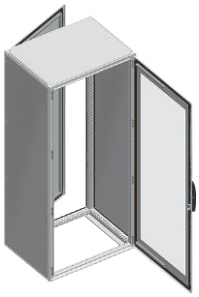
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Electronic application

Spacial SF 19" electronic enclosure

- Structure: Top and bottom frame and vertical uprights.
- Transparent front door with Securit® glass.
- Plain rear door.
- Standard locking system with handle and 5 mm double bar insert.
- Removable roof.
- External fixing side panels double folded to increase their rigidity with captive fixing screws that reduce installation time.
- In enclosures with widths of 600 and 800 mm, it is possible to install fixed or swing racks, to be ordered separately.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Certifications: UL 508A Types 1, 12 and CUL

For more details see page 460



NSYSF12660E

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Spacial SF 19" electronic enclosur	1200	600	600	**NSYSF12660E**
Spacial SF 19" electronic enclosur	1200	600	800	**NSYSF12680E**
Spacial SF 19" electronic enclosur	1200	800	600	**NSYSF12860E**
Spacial SF 19" electronic enclosur	1200	800	800	**NSYSF12880E**
Spacial SF 19" electronic enclosur	2000	600	600	**NSYSF20660E**
Spacial SF 19" electronic enclosur	2000	600	800	**NSYSF20680E**
Spacial SF 19" electronic enclosur	2000	800	600	**NSYSF20860E**
Spacial SF 19" electronic enclosur	2000	800	800	**NSYSF20880E**
Spacial SF 19" electronic enclosur	2000	800	1000	**NSYSF208100E**
Spacial SF 19" electronic enclosur	2200	600	600	**NSYSF22660E**
Spacial SF 19" electronic enclosur	2200	600	800	**NSYSF22680E**
Spacial SF 19" electronic enclosur	2200	600	1000	**NSYSF226100E**
Spacial SF 19" electronic enclosur	2200	800	600	**NSYSF22860E**
Spacial SF 19" electronic enclosur	2200	800	800	**NSYSF22880E**
Spacial SF 19" electronic enclosur	2200	800	1000	**NSYSF228100E**

Single ventilated door for 19" racks

- Door designed to achieve natural ventilation of the enclosure.
- Installation on enclosures with a width of 800 mm, equipped with centred fixed or swing racks. Opening of 120°.
- Standard locking system with handle and 5 mm double bar insert.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Supply:
1 ventilated door for racks



NSYPCVD126

Characteristics	Height (mm)	Width (mm)	References
Single ventilated door	1200	600	**NSYPCVD126**
Single ventilated door	1200	800	**NSYPCVD128**
Single ventilated door	1400	800	**NSYPCVD148**
Single ventilated door	1600	800	**NSYPCVD168**
Single ventilated door	1800	800	**NSYPCVD188**
Single ventilated door	2000	600	**NSYPCVD206**
Single ventilated door	2000	800	**NSYPCVD208**
Single ventilated door	2200	600	**NSYPCVD226**
Single ventilated door	2200	800	**NSYPCVD228**

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Electronic application

Front and rear plinths

- The front and rear of the plinth consists of 4 corners with 2 or 4 panels.
- Material: Folded sheet steel, corner with a thickness of 25/10e mm
- Finish: Epoxy polyester paint
- Colour: RAL 7022 grey
- Ingress protection rating: IP30 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Note:
For more information, see page 86

Supply:
Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements. Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements


NSYSPF6100


NSYSPF6200

Characteristics	Width (mm)	Height (mm)	References
Front plinths for Spacial	600	100	**NSYSPF6100**
Front plinths for Spacial	800	100	**NSYSPF8100**
Front plinths for Spacial	600	200	**NSYSPF6200**
Front plinths for Spacial	800	200	**NSYSPF8200**

Plinth side panels

- They are fixed to the corner of the plinth by 2 fixing screws.
- Folded sheet steel
- Finish: Epoxy polyester paint
- Colour: RAL 7022 grey
- Ingress protection rating: IP30 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
Height 100 mm: 2 side panels, 4 corner covers and fixing elements. Height 200 mm:
4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements


NSYSPS6100


NSYSPS6200

Characteristics	Depth (mm)	Height (mm)	References
Side plinths for Spacial	600	100	**NSYSPS6100**
Side plinths for Spacial	800	100	**NSYSPS8100**
Side plinths for Spacial	1000	100	**NSYSPS10100**
Side plinths for Spacial	600	100	**NSYSPS6100**
Side plinths for Spacial	800	100	**NSYSPS8100**
Side plinths for Spacial	1000	100	**NSYSPS10100**
Side plinths for Spacial	600	200	**NSYSPS6200**
Side plinths for Spacial	800	200	**NSYSPS8200**
Side plinths for Spacial	1000	200	**NSYSPF10200**
Side plinths for Spacial	600	200	**NSYSPS6200**
Side plinths for Spacial	800	200	**NSYSPS8200**
Side plinths for Spacial	1000	200	**NSYSPF10200**

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Electronic application

Ventilated front plinth


NSYSPFV6100

- The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.
- Material: Folded sheet steel, corner with a thickness of 25/10e mm
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7022 grey
- Ingress protection rating: IP20 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
Height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements

Characteristics	Height (mm)	Width (mm)	References
Ventilated front plinth for Spacial SF-SM	100	600	**NSYSPFV6100**
Ventilated front plinth for Spacial SF-SM	100	800	**NSYSPFV8100**

Ventilated side panels

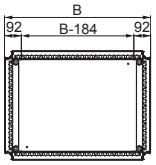

NSYSPV6100

- They are fixed to the corner of the plinth by fixing screws.
- Material: Folded sheet steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7022 grey
- Ingress protection rating: IP20 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 6226

Supply:
Height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements

Characteristics	Height (mm)	Depth (mm)	References
Ventilated side panels for Spacial SF-SM	100	600	**NSYSPV6100**
Ventilated side panels for Spacial SF-SM	100	800	**NSYSPV8100**

Plain cable gland plate



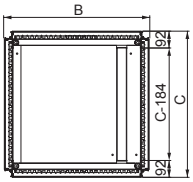
- The design of the compact cable gland plate, coupled with the use of the sealing gasket **NSYCEK** enable the maximum dust/water tightness.
- Material: Galvanised steel
- Thicknesses: 15/10e mm

Supply:
Plain plate and fixing elements

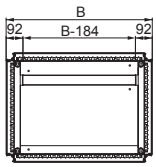

NSYEC66

Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Spacial SF Plain cable gland plate	600	600	**NSYEC66**
Spacial SF Plain cable gland plate	600	800	**NSYEC68**
Spacial SF Plain cable gland plate	600	1000	**NSYEC610**
Spacial SF Plain cable gland plate	800	600	**NSYEC86**
Spacial SF Plain cable gland plate	800	800	**NSYEC88**
Spacial SF Plain cable gland plate	800	1000	**NSYEC810**

Plate with 1 entry



Enclosures of 300 and 400 mm width.



Enclosures of 600, 800, 1000 and 1200 mm width.

- Facilitates the entry of cables thanks to a longitudinal opening.
- Material: Galvanised steel
- Thicknesses: 15/10e mm

Supply:
Plate with 1 entry; Self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantees good sealing) and fixing elements


NSYEC661

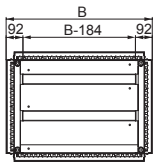
Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Spacial SF Plate with 1 entry	600	600	**NSYEC661**
Spacial SF Plate with 1 entry	600	800	**NSYEC681**
Spacial SF Plate with 1 entry	600	1000	**NSYEC6101**
Spacial SF Plate with 1 entry	800	600	**NSYEC861**
Spacial SF Plate with 1 entry	800	800	**NSYEC881**
Spacial SF Plate with 1 entry	800	1000	**NSYEC8101**

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Life Is On Schneider Electric

Electronic application

Plate with 2 entries



- Cable entry for very deep enclosures (600 and 800 mm).
- Two longitudinal openings allowing a large number of cables through.
- Material: Galvanised steel
- Thicknesses: 15/10^{e} mm

Supply:
1 plate with 2 entries; Polyurethane adhesiv gasket with cross-section of 15 x 25 mm (guarantee good sealing) and fixing elements


NSYEC662

Characteristics	(B) Width (mm)	(C) Depth (mm)	References
Spacial SF Plate with 2 entries	600	600	**NSYEC662**
Spacial SF Plate with 2 entries	600	800	**NSYEC682**
Spacial SF Plate with 2 entries	600	1000	**NSYEC6102**
Spacial SF Plate with 2 entries	800	600	**NSYEC862**
Spacial SF Plate with 2 entries	800	800	**NSYEC882**
Spacial SF Plate with 2 entries	800	1000	**NSYEC8102**

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Electronic application

Actassi plain plate for roof

- Removable plate made from folded sheet steel, to be installed on roof ref. **NSYSRSYS8•**.
- Option of installing roof elevators for aeration, ref. **NSYEX206**, and cable glands.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Supply:
1 plain plate and fixing elements

NSYTSPC450

Characteristics	References
Actassi plain plate for roof	**NSYTSPC450**

Actassi plate with brush gasket for roof

- Removable folded sheet steel plate, equipped with a gasket with cable gland brush, to be installed on roof ref. **NSYSRSYS8•**.
- Optional installation of roof elevators for aeration, ref. **NSYEX206**, and cable gland plates.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Supply:
1 plate with brush gasket and fixing elements


NSYTSP450

Characteristics	References
Actassi plate with brush gasket for roof	**NSYTSP450**

Actassi ventilated plate for roof

- Removable plate made from folded sheet steel, to be installed on roof ref. **NSYSRSYS8•**.
- Optional installation of roof elevators for aeration, ref.**NSYEX206**, cable gland plates and fans.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

Supply:
1 ventilated plate and fixing elements


NSYTSPV450

Characteristics	References
Actassi ventilated plate for roof	**NSYTSPV450**

Roof plate elevators for aeration

- Columns with a height of 20 mm.
- Fixing: Between the roofplate and the roof.

Supply:
100 units. Reference by unit.
Order by multiples of 100 (100, 200, 300…).


NSYEX206

Characteristics	References
Roof plate elevators for aeration	**NSYEX206**

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Electronic application

Actassi plain cable gland plate

For more details see page 460

- Material: Galvanised steel
- Fixing: Fixing on the outside of the roof and bottom support plate
  Can be combined with other types of cable gland plates

Supply:
1 plain cable gland plate and fixing elements


NSYEC440

Characteristics	References
Actassi plain cable gland plate	**NSYEC440**

Actassi cable gland plate with brush

- Material: Galvanised steel
- Fixing: Fixing on the outside of the roof and bottom support plate
  Can be combined with other types of cable gland plates

Supply:
1 cable gland plate with brush and fixing elements


NSYECP440

Characteristics	References
Actassi cable gland plate with brush	**NSYECP440**

Actassi self-ventilated cable gland plate

- Material: Galvanised steel
- Fixing: Fixing on the outside of the roof and bottom support plate
  Can be combined with other types of cable gland plates

Supply:
1 self-ventilated cable gland plate and fixing elements


NSYECAV440

Characteristics	References
Actassi self-ventilated cable gland plate	**NSYECAV440**

Actassi ventilation plate with or without fans, symbol diameter before 120 mm

- Fixing: Fixing on the outside of the roof and bottom support plate
  Can be combined with other types of cable gland plates
- Other characteristics: Sound level: 34 dB (A)

Supply:
1 cable gland plate with or without fans, 2-m power cord (version with fans) and fixing elements
Versions with 2 or 3 fans: Each of them has an output capacity of 170 m³/h, 220 V-50/60 Hz, installed and wired to a terminal strip. A 2-m power cord is supplied connected


NSYECVT3440

Characteristics	Description	References
Actassi ventilation plate with or without fans, symbol diameter before 120 mm	No fans, 3 positions	**NSYECVT3440**
Actassi ventilation plate with or without fans, symbol diameter before 120 mm	With 3 fans	**NSYECVT3V440**
Actassi ventilation plate with or without fans, symbol diameter before 120 mm	No fans, 2 positions	**NSYECVT2440**
Actassi ventilation plate with or without fans, symbol diameter before 120 mm	With 2 fans	**NSYECVT2V440**

Actassi ventilated support with filter

- Fixing: To be mounted on the cable gland plate with or without fan or on the self-ventilated cable gland plate.
- Colour: RAL 9011

Supply:
1 mounting support and filter


NSYFECVT440

Characteristics	References
Actassi ventilated support with filter	**NSYFECVT440**

Spare filter for Actassi ventilated support

Supply:
5 units


NSYCEFILS

Characteristics	References
Spare filter for Actassi ventilated support	**NSYCEFILS**

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Electronic application

Ventilated roof


NSYSVR606

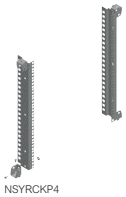
- Roof for providing natural ventilation for the enclosure, with IP30 protection.
- Height: An extra 63 mm in relation to the structure.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey

For more details see page 460

Supply:
1 ventilated roof and fixing elements

Characteristics	Width (mm)	Depth (mm)	References
Spacial SF Ventilated roof	600	600	**NSYSVR606**
Spacial SF Ventilated roof	600	800	**NSYSVR608**
Spacial SF Ventilated roof	800	600	**NSYSVR806**
Spacial SF Ventilated roof	800	800	**NSYSVR808**

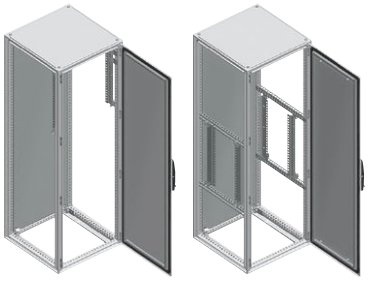
Partial 19" fixed rack


NSYRCKP4

- Rack designed for coupling in enclosures with a width of 600 mm.
- Adjustable depth with a pitch of 25 mm.
- Material: Zinc-coated steel
- Maximum load: 2 kg/U

Installation:
Spacial SF:
- Installation at the top front of the enclosure, no cross rails needed (1)
- Depth adjustment of the partial rack: two cross rails need to be installed, see page 245
- For installation at any other height, four cross rails are required (2)

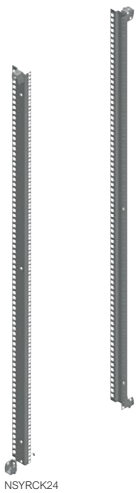
Spacial SM:
- At the front of the enclosure (1): Install two front vertical adaptation profiles, see page 248
- For depth adjustment (2): Install two front vertical adaptation profiles, see page 248 and two rear vertical 40 mm (1 row) cross rails and four cross rails, see page 245


(1) (2)

Supply:
2 uprights and fixing elements

Characteristics	No. of units	Height (mm)	References
Partial 19" fixed rack	4	200	**NSYRCKP4**
Partial 19" fixed rack	8	400	**NSYRCKP8**
Partial 19" fixed rack	12	600	**NSYRCKP12**
Partial 19" fixed rack	17	800	**NSYRCKP17**
Partial 19" fixed rack	21	1000	**NSYRCKP21**
Partial 19" fixed rack	26	1200	**NSYRCKP26**

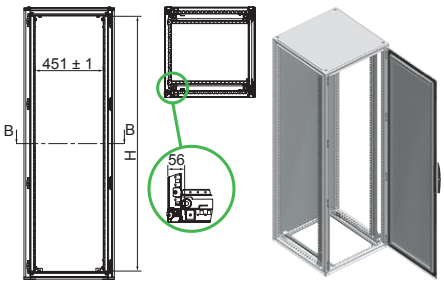
19" fixed rack


NSYRCK24

- Rack designed for installation in enclosures with a width of 600 mm.
- Adjustable depth with a pitch of 25 mm.
- Material: Zinc-coated steel
- Maximum load: 400 kg

Installation:
Spacial SF:
- direct fixing on the structure of the enclosures:
- for installation on enclosures with a width of 800 mm, use the 19" fixed-rack support brackets,
- to reinforce the rigidity of the uprights in enclosures with a width of 800 mm, it is advisable to use the central fixing kit, for enclosure heights above 1800 mm, ref. **NSYRCK19KIT**.

Spacial SM:
- fixing on the top/bottom adjustment rails.



Supply:
2 uprights and fixing elements

Characteristics	No. of units	Height (mm)	References
19" fixed rack	24	1200	**NSYRCK24**
19" fixed rack	29	1400	**NSYRCK29**
19" fixed rack	33	1600	**NSYRCK33**
19" fixed rack	38	1800	**NSYRCK38**
19" fixed rack	42	2000	**NSYRCK42**
19" fixed rack	47	2200	**NSYRCK47**

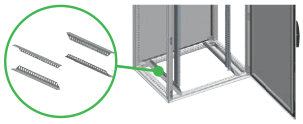
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Electronic application

Support brackets for 19" fixed rack with a width of 800 mm

- Support brackets for coupling the fixed rack to enclosures with a width of more than 600 mm.
- They allow the depth of the fixed rack to be adjusted with a pitch of 25 mm.
- The fixed amounts are delivered in pairs.
- Material: Zinc-coated steel
- Maximum load: 400 kg



Supply:
4 support brackets and fixing elements



NSYRCKS6

Characteristics	Depth (mm)	References
Support brackets for 19" fixed rack	600	**NSYRCKS6**
Support brackets for 19" fixed rack	800	**NSYRCKS8**
Support brackets for 19" fixed rack	1000	**NSYRCKS10**

Side plates of the centred fixed rack for a width of 800 mm

- Side plates for coupling to the fixed rack in enclosures with a width of 800 mm.
- Direct installation on the rack by screws.
- The fixed amounts are delivered in pairs.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey



Supply:
2 side plates and fixing elements

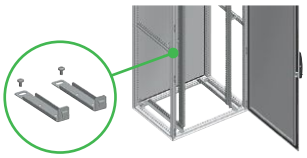


NSYRC12

Characteristics	Height (mm)	References
Side plates of the centred fixed rack	1200	**NSYRC12**
Side plates of the centred fixed rack	1400	**NSYRC14**
Side plates of the centred fixed rack	1600	**NSYRC16**
Side plates of the centred fixed rack	1800	**NSYRC18**
Side plates of the centred fixed rack	2000	**NSYRC20**
Side plates of the centred fixed rack	2200	**NSYRC22**

Central fixing kit

- To reinforce the rigidity of the 19" fixed racks in enclosures with a width of 800 mm.
- Fixing to the enclosure by cross rails or light cross rails installed depthwise. See page 246.
- Material: Zinc-coated steel



Supply:
2 supports and fixing elements



NSYRCK19KIT

Characteristics	References
Central fixing kit	**NSYRCK19KIT**

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Electronic application

Partial 19" swing rack for 600 and 800 mm enclosures

- Rack for coupling to enclosures with widths of 600 and 800 mm.
- In enclosures with a width of 800 mm, the rack can be installed centred or offcentre.
- Maximum opening: 120°.
- Reversible opening direction: Left/right.
- Locking system, top and bottom, with 5 mm double bar key.
- The 6 and 9 units racks only with bottom lock.
- Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm.
- Material: Zinc-coated steel

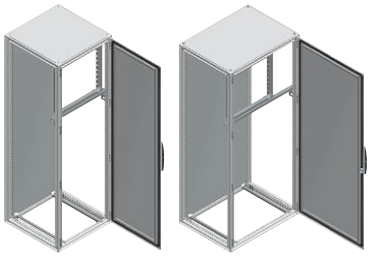
Installation:

Spacial SF:

- To install at the front at any height of the enclosure: directly to the framework by rack fixing elements
- For depth adjustment: Install two (for top height) or four (for any height) 65 mm (2 rows) cross rails, see page 245

Spacial SM:

- To install at the front at any height of the enclosure: install two front vertical adaptation profiles, see page 248
- For depth adjustment: Install two front vertical adaptation profiles, see page 248 and two rear vertical 40 mm cross rails and four 65 mm (2 rows) cross rails, see page 245
- Maximum load: 2 kg/U



For more details see page 461

(1) Optional installation in enclosures with height of 1200 mm.

Supply:
1 partial 19" swing rack



NSYRSWP6

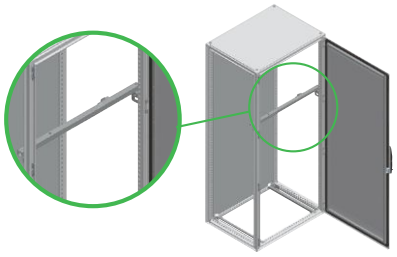
Characteristics	No. of units (H)	Height (mm)	References
Partial 19" swing rack	6	355	**NSYRSWP6**
Partial 19" swing rack	9	468	**NSYRSWP9**
Partial 19" swing rack	12	601	**NSYRSWP12**
Partial 19" swing rack	15	735	**NSYRSWP15**
Partial 19" swing rack	18	868	**NSYRSWP18**
Partial 19" swing rack (1)	21	1002	**NSYRSWP21**

Partial 19" swing rack support for 600 and 800 mm enclosures

- Supports for coupling the partial swing rack to enclosures with widths of 600 and 800 mm.
- Height or depth adjustment, with a pitch of 25 mm, by two 65 mm (2 rows) universal cross rails and a 19" multiple bracket, ref. **NSYMBR19**.
- Spacial SF: Direct fixing to the structure.
- Spacial SM: Fixing to the enclosure by means of the vertical adaptation profile, see page 248.
- Material: Zinc-coated steel

Installation:

- Installation of the rack in centred or off-centre position, for enclosures with a width of 800 mm



Supply:
2 supports and fixing elements



NSYRSWSP6

Characteristics	Width (mm)	References
Partial 19" swing rack support	600	**NSYRSWSP6**
Partial 19" swing rack support	800	**NSYRSWSP8**

19" multiple bracket

- Bracket for fixing 65 mm universal cross rails (2 rows), depthwise, to position the partial 19" swing rack in any direction, up and down and/or depthwise.
- Material: Zinc-coated steel.

Supply:
4 brackets and fixing elements



NSYMBR19

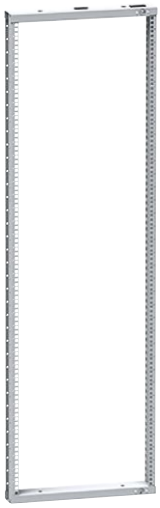
Characteristics	Width (mm)	References
19" multiple bracket	600	**NSYMBR19**

11

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Electronic application

19" swing rack for 600 mm enclosures


NSYRSW627

- To be coupled to enclosures with widths of 600 mm.
- Can be moved depthwise with a pitch of 25 mm.
- Reversible opening direction: Left/right.
- Locking system, top and bottom, with 5 mm double bar key.
- Maximum opening: 130°.
- Maximum equipment installation depth: 180 mm.

Fixing to the enclosure structure:

Spacial SF:

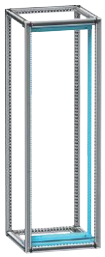
- fixing to the enclosure structure.

Spacial SM:

- fixing to the enclosure on top/bottom adjustment rails.

Components:

- Zinc-coated steel central structure.
- Mounting cross rail on structure made from steel painted with epoxy polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws.



For more details see page 461

Supply:
1 19" swing rack with no panels

Characteristics	No. of units (H)	Height (mm)	References
19" swing rack	27	1400	**NSYRSW627**
19" swing rack	31	1600	**NSYRSW631**
19" swing rack	36	1800	**NSYRSW636**
19" swing rack	40	2000	**NSYRSW640**
19" swing rack	45	2200	**NSYRSW645**

19" swing rack for 800 mm enclosures, off-centre


NSYRSW27

- To be coupled to enclosures with widths of 800 mm.
- Can be moved depthwise with a pitch of 25 mm.
- Reversible opening direction: Left/right.
- Locking system, top and bottom, with 5 mm double bar key.
- Maximum opening: 130° (possibility of opening to 180° using 180° hinges).
- Material: Zinc-coated steel and steel painted
- Maximum load: 3.75 kg/unit with a max of 150 kg

Installation:

- Spacial SF - SM
- other mounting options: Consult us

Maximum equipment installation depth:

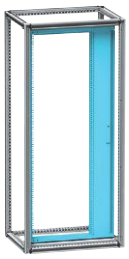
- Off-centre 19" swing rack: 470 mm
- Centred 19" swing rack: 390 mm

Fixing to the enclosure structure:

- Spacial SF: Fixing to the entire height of the enclosure structure.
- Spacial SM: Fixing to the enclosure on top/bottom adjustment rails.

Components:

- Zinc-coated steel central structure.
- Mounting cross rail on structure made from steel painted with epoxypolyester resin, textured RAL 7035 grey.
- Fixed to the central structure by screws.
- Side plate made from steel painted with epoxy polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws.



For more details see page 461

Supply:
Centred and off-centre 19" swing rack: hinged rack, 800 mm swing rack supports, side plates with locking system double bar and fixing elements

Characteristics	No. of units (H)	Height (mm)	References
19" swing rack, off-centre	27	1400	**NSYRSW27**
19" swing rack, off-centre	31	1600	**NSYRSW31**
19" swing rack, off-centre	36	1800	**NSYRSW36**
19" swing rack, off-centre	40	2000	**NSYRSW40**
19" swing rack, off-centre	45	2200	**NSYRSW45**

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Electronic application

19" swing rack for 800 mm enclosures, centred


NSYRSW27

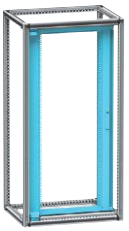
- To be coupled to enclosures with widths of 800 mm.
- Can be moved depthwise with a pitch of 25 mm.
- Reversible opening direction: Left/right.
- Locking system, top and bottom, with 5 mm double bar key.
- Maximum opening: 130° (possibility of opening to 180° using 180° hinges).
- Material: Zinc-coated steel and steel painted
- Maximum load: 3.75 kg/unit with a max of 150 kg

Installation:
- Spacial SF - SM
- other mounting options: Consult us

Maximum equipment installation depth:
- Off-centre 19" swing rack: 470 mm
- Centred 19" swing rack: 390 mm

Fixing to the enclosure structure:
- Spacial SF: Fixing to the entire height of the enclosure structure.
- Spacial SM: Fixing to the enclosure on top/bottom adjustment rails.

Components:
- Zinc-coated steel central structure.
- Mounting cross rail on structure made from steel painted with epoxypolyester resin, textured RAL 7035 grey.
- Fixed to the central structure by screws.
- Side plate made from steel painted with epoxy polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws.



For more details see page 461

Supply:
Centred and off-centre 19" swing rack: hinged rack, 800 mm swing rack supports, side plates with locking system double bar and fixing elements

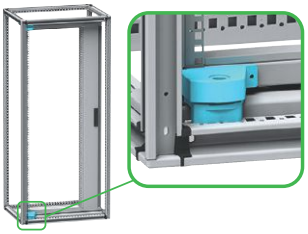
Characteristics	No. of units (H)	Height (mm)	References
19" swing rack, centred	27	1400	**NSYRSWC27**
19" swing rack, centred	31	1600	**NSYRSWC31**
19" swing rack, centred	36	1800	**NSYRSWC36**
19" swing rack, centred	40	2000	**NSYRSWC40**
19" swing rack, centred	45	2200	**NSYRSWC45**

180° hinge


NSYRSWH180

- Hinge for installation on centred and off-centre 19" swing racks.
- Allows the swing rack to be opened to 180°.
- Fixing by M8 screws directly to the swing rack.
- Material: Zamak 5

Maximum equipment installation depth:
off-centre 19" swing rack: 425 mm,
centred 19" swing rack: 345 mm.



Supply:
2 hinges and fixing elements

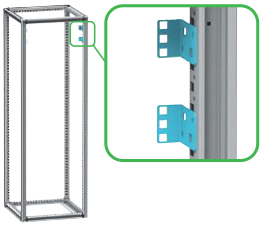
Characteristics	References
180° hinge	**NSYRSWH180**

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Electronic application

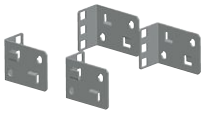
1 U / 3 U support



- Support prepared for installing equipment 1 U or 3 U high.
- Designed with quick locking for easy installation.
- **Spacial SF:** Direct fixing to the structure.
- **Spacial SM:** Fixing to the enclosure by means of the vertical adapter section, see page 248.
- Material Zinc-coated steel

For more details see page 461

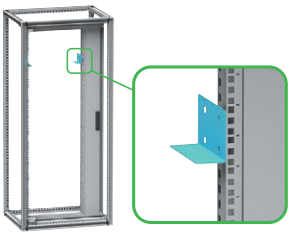
Supply:
4 1 U/3 U supports (2 units right and 2 units left) and fixing elements



NSYRC1U

Characteristics	References
1 U / 3 U support	**NSYRC1U**

19" partial single slides



- Rails for installation on fixed or swing racks.
- Direct fixing on the structure of the enclosure, by quick locking.
- Material: Zinc-coated steel
- Thickness: 12/10e mm
- Maximum load: 15 kg

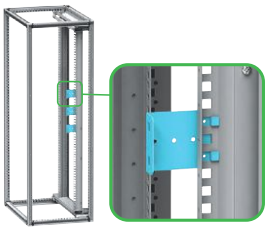
Supply:
2 rails and fixing elements



NSYGB140

Characteristics	References
19" partial single slides	**NSYGB140**

Fixing of cable ducts on 19" racks



- Allows vertical fixing of cable ducts for cable guide.
- Service depth: 150 mm.
- Fixed by quick locking to the 19" rack profile.
- Material: Zinc-coated steel

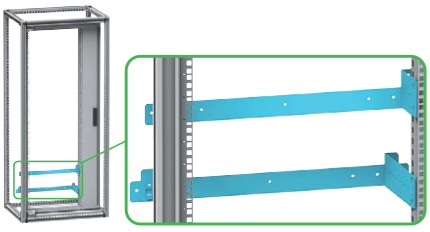
Supply:
3 units and fixing elements



NSYRCDFIX

Characteristics	References
Fixing of cable ducts on 19" racks	**NSYRCDFIX**

Rear cable-guide support



- Supports used for installation on the rear of the swing racks.
- Suitable for fixing cable-guide accessories.
- Allow vertical fixing of cable ducts: Adjustable depth with a pitch of 44.45 mm.
- Material: Zinc-coated steel

Supply:
2 cable-guide supports, crossbar and fixing elements



NSYRCSUP15

Characteristics	Service depth (mm)	References
Rear cable-guide support	150	**NSYRCSUP15**
Rear cable-guide support	250	**NSYRCSUP25**

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Electronic application

120° mechanical retainer


NSYRCDR12

- Retainer for installation on the swing racks.
- Maximum opening: 120°.

Fixing:
Direct fixing to the rack support and the 19" rack

Supply:
1 mechanical door stop and fixing elements

Characteristics	References
120° mechanical retainer	**NSYRCDR12**

180° pneumatic retainer


NSYRCDR18

- Retainer for installation on the swing racks installed with 180° hinges, in enclosures with a depth of 600, 800 or 1000 mm.
- Maximum opening: 180°.

Fixing:
Spacial SF:
fixing to the base of the structure and to the rack.
Spacial SM:
direct fixing to the rack support and to the 19" rack.

Supply:
1 pneumatic door stop and fixing elements

Characteristics	References
180° pneumatic retainer	**NSYRCDR18**

Switch for swing 19" rack


NSYRCINT

- Switch for direct fixing on the bottom or top support of the swing rack.
- M20 connection.
- Open + closed contact, 10 A/500 V.

Supply:
1 19" rack switch and fixing elements

Characteristics	References
Switch for swing 19" rack	**NSYRCINT**

Fixings for 19" rack



- They allow 19" accessories to be mounted.
- Caged nut compatible with 8.5 x 8.5 mm and 9.5 x 9.5 mm holes.


NSYGFR95M63

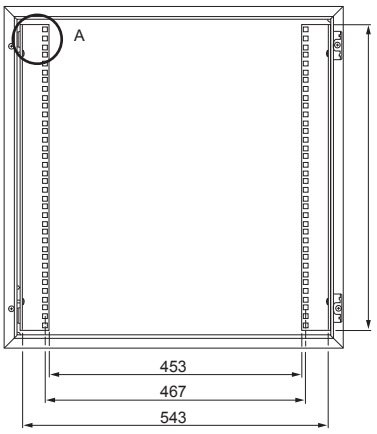
Characteristics	Batch of	References
M6 screws + washers + nuts	30	**NSYGFR95M63**
M6 x 16 screws and washers	50	**NSYGFR166P**
M6 caged nuts	100	**NSYCN9M625**
M6 screws + washers + nuts	50	**NSYGFR95M65**
M5 screws + washers + nuts	50	**NSYGFR95M55**

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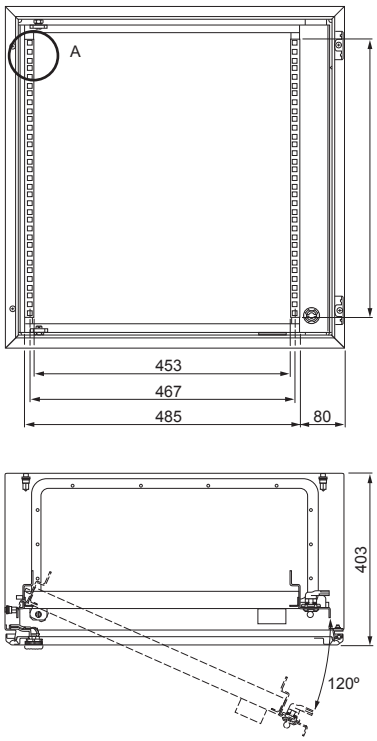
Electronic application

1-body 19" enclosure

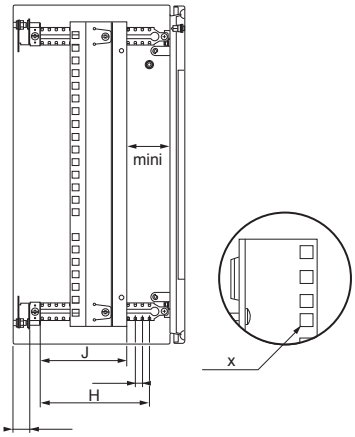
Fixed chassis

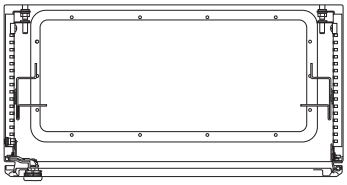


Swing chassis



Fixed chassis mounted on the step slides

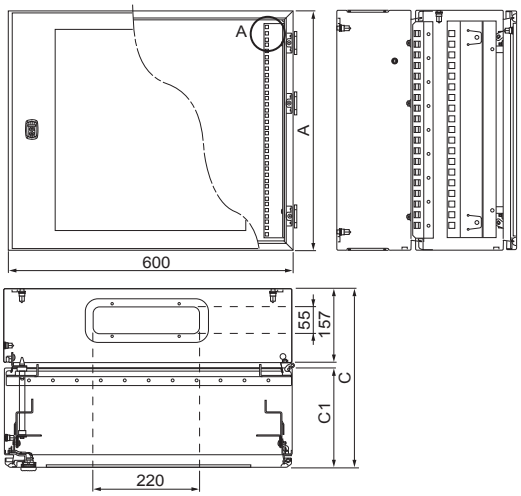




Cable gland plate 495 x 220 mm.

H (bars) (mm)	J (travel) (mm)
200	100
250	150
300	200
400	300

19"-Schrank mit 2 Korpus



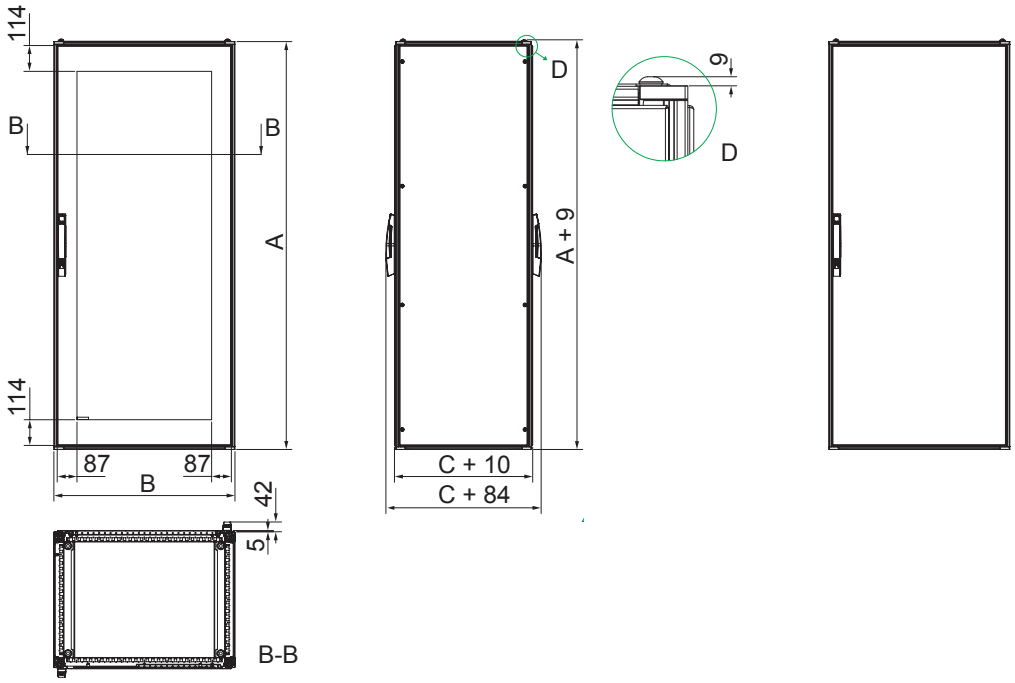
A (mm)	C (mm)	C1 (mm)	References
300	373	183	**NSYVD2M5U4**
400	373	183	**NSYVD2M5U5**
500	373	183	**NSYVD2M8U4**
700	373	183	**NSYVD2M8U5**
800	373	183	**NSYVD2M10U4**
300	473	283	**NSYVD2M10U5**
400	473	283	**NSYVD2M14U4**
500	473	283	**NSYVD2M14U5**
700	473	283	**NSYVD2M17U4**
800	473	283	**NSYVD2M17U5**

Cable gland plate S3D type dimensions 245 x 80 mm.

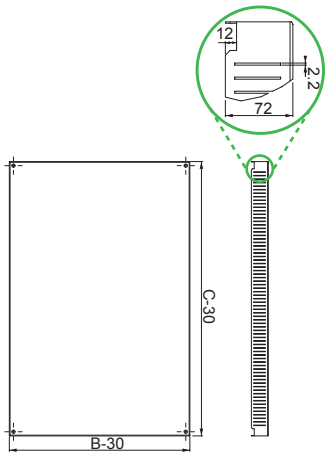
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Electronic application

Spacial SF 19" electronic enclosure



Ventilated roof



Examples of possible combinations

Cable gland plates for the roof

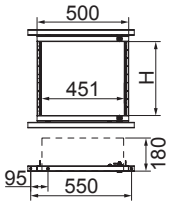
Spacial SF dimensions		Combination 1	Combination 2
Width (mm)	Depth (mm)		
600/800	600		
600/800	800		
600/800	1000		

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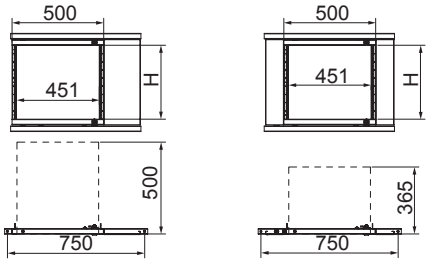
Life Is On Schneider Electric

Electronic application

Partial 19" swing rack for 600 and 800 mm enclosures

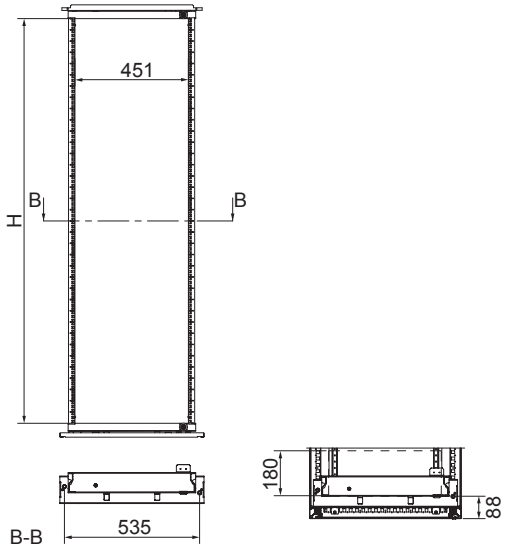


Partial 19" swing rack for enclosures with a width of 600 mm.

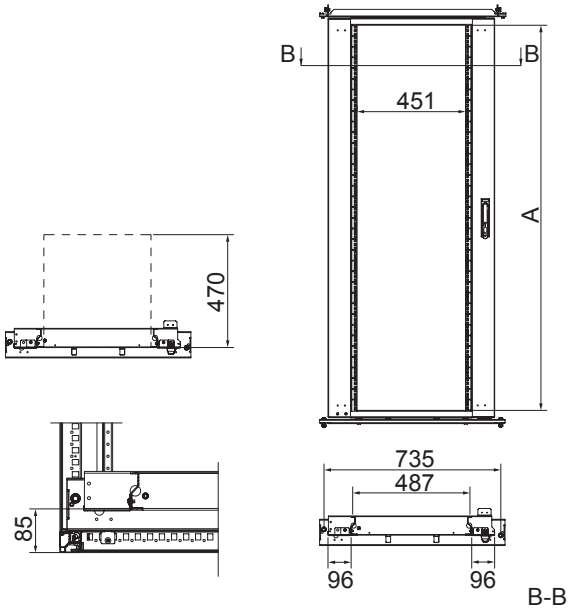


Partial 19" swingrack, off-centreand centred, forenclosures with awidth of 800 mm.

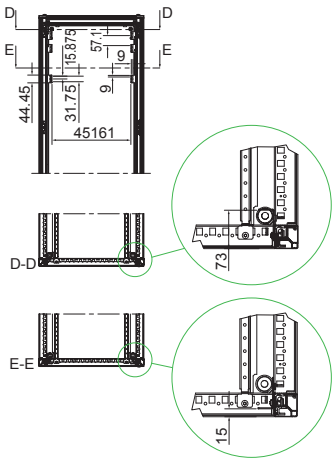
19" swing rack for 600 mm enclosures



19" swing racks for 800 mm enclosures



1 U / 3 U support



11

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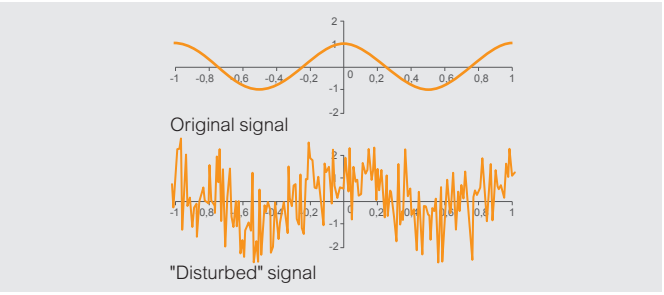
Electromagnetic interference

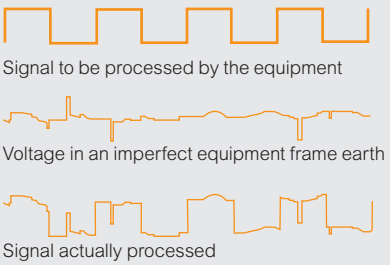
Introduction

LV networks are highly polluted and subject to a large number of aggressions. Electrotechnical equipment and in particular electronic devices, that are increasingly numerous and process ever lower signals, must withstand a harsh electromagnetic environment. At the same time availability requirements, whether for production, management or commerce, are increasingly great.

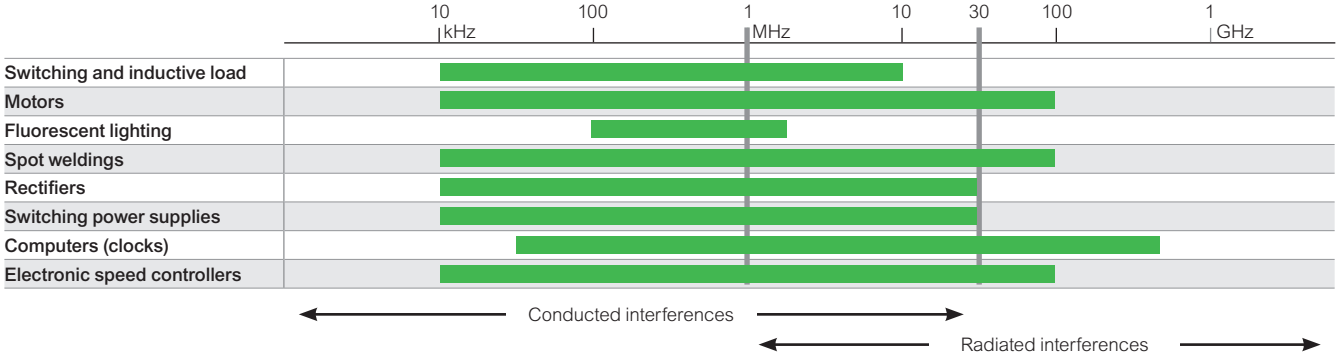
Definition

Any electromagnetic phenomenon capable of impairing the performance of a device, equipment or system, etc.
An electromagnetic disturbance can be electromagnetic noise, an unwanted signal or a change in the propagation medium itself.
An electromagnetic disturbance, as its name suggests, consists of an electric field $\vec{E}$ generated by a potential difference and a magnetic field $\vec{H}$ difference caused by the flow of a current I along a conductor.
"Unwanted" electromagnetic interference is simply an unwanted electrical signal that is added to the useful signal. This unwanted signal is propagated by conduction in conductors and by radiation in air, etc.





Example of devices generating interference



The regulations

The standards define electromagnetic compatibility (EMC) as "the ability of a device, equipment or a system to function satisfactorily in its electromagnetic environment without introducing intolerable disturbances to that environment or to other equipment".

Classification

In an electrical switchboard, the signals coming from these sources of disturbance will coexist with more sensitive devices. These signals may be classified as follows (Sources: IEC 61000-5-2 and IEC 60364-4-44 standards):

Class	Examples
1 Sensitive	• Low-level circuits with analog outpout units, sensors… • Instrument circuits (probe, sensors…)
2 Not very sensitive	• Control/command circuits with resistive load • Digitalized low-level circuits (Bus…) • Low-level circuits with on-off output unit (sensors…) • Low-level direct power supply
3 Not very disturber	• Control/command circuits with inductive load (relay, contactors, coils, inverter…) with adapted protection • Alternating power supply • Main power supply connected to power devices
4 Disturber	• Welding machines • Power circuit • Drive, switch mode power supplies…

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Electromagnetic protected steel enclosures

How to obtain EMC

Rules to be followed: General description

The electromagnetic interference generated by devices is classified in 2 categories according to its frequency:

- Low frequency (up to 30 MHz): Interference conducted by sensor cables;
- High frequency (above 1 MHz): Interference radiated by a device.

The rules to be followed concern the selection and installation of the electrical installation's components. Overall, they break down as follows:

Conducted interferences

- Importance of the choice of architecture for the power supplies and associated protective devices.
- Use of a filter.

Radiated interferences

- Importance of the choice of installation rules: grounding, length and cross section of cables, cabling rules, choice of cable tray, connections, choice and installation of the enclosure.
- Use of filters.

Connect the shielding

- This connection can remove interference to earth.

The decision to connect one or both ends to earth means priority is given to protection against low or high frequencies:

- at a single end, 50 Hz stray currents cannot flow, moderate HF protection;
- at both ends, possible presence of 50 Hz current, but the barrier against higher frequencies is strengthened.

Isolation transformers

Isolation transformers are used to guard against high-frequency disturbances generated by the network power supply (primary circuit). An electrostatic shield is connected to earth by a short link. This link must be free of paint and any other insulating material. Physical separation of the cables of the primary circuit (network power supply) and those of the secondary circuit (power distribution) is also essential.

Earth connection of metal raceways

Increasing the efficiency of the shielding on highly disturbing cables

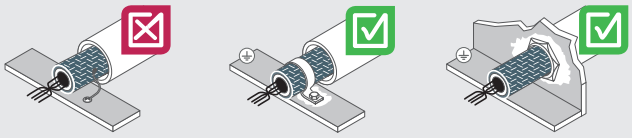
The radiation from a shielded variable speed drive/motor connecting cable will be further reduced if it runs in a closed metal raceway or, even better, in a metal conduit. The raceway and tube need to be connected to earth at either end.

Enclosures

The interfering and sensitive components, cables etc. should be installed in separate enclosures or located at some distance from each other.

Note:
For further information, consult your local sales office or our educational leaflet entitled "Electromagnetic compatibility" - ref. **UE17MK08FR**.

Connect the shielding

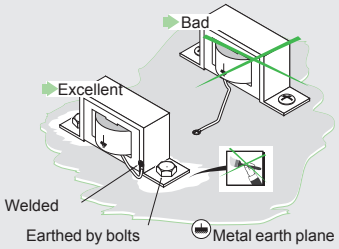


Example 1
Shielding connected to frame earth by a wire (pigtail) and no mechanical fastener.
Arrangement to be avoided.

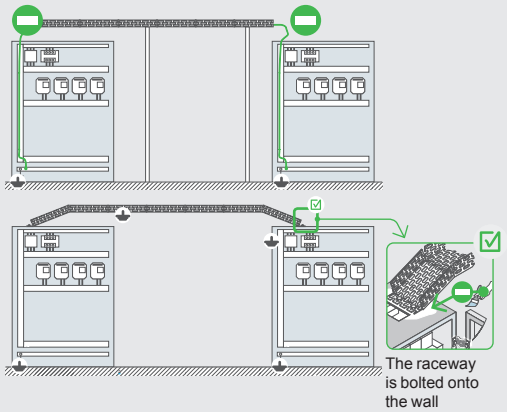
Example 2
Shielding connected to frame earth over its entire circumference, but no mechanical fastener.
Acceptable arrangement.

Example 3
Shielding connected to frame earth over its entire circumference, and a mechanical fastener.
Recommended arrangement.

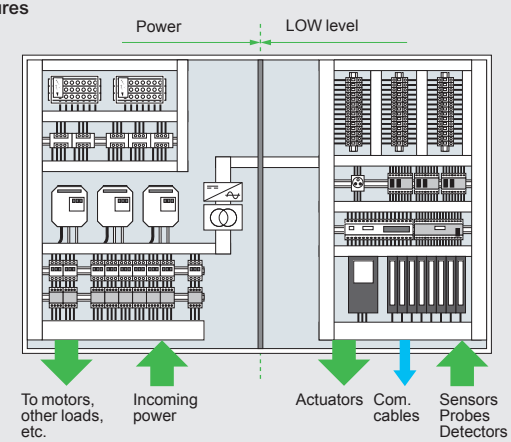
Isolation transformers



Earth connection of metal raceways



Enclosures



11

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Electromagnetic protected steel enclosures

EMC offer of Schneider Electric

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining



Spacial S3HF wall-mounting enclosure IP55 IK10

From H 400 x W 300 x D 200 to H 1200 x W 800 x D 300 mm

- Metal monobloc enclosures constructed from special ALU-ZINC 150 sheet.
- Body constructed from single folded and welded sheet.
- The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
- Ingress protection rating: IP55.
- Mechanical protection rating: IK10.
- Structured finish, exclusively epoxy polyester paint on the outside
- RAL 7035 grey colour.

Spacial SFHF suitable enclosure IP55 IK10

From H 1800 x W 600 x D 600 to H 2200 x W 800 x D 800 mm

- Metal, extendable enclosure constructed thanks to a closed triangular profile, door and panel from special ALU-ZINC 150 sheet. The enclosure surface, comprising 55 % aluminium ensures good reflection of radiated electromagnetic interference.
- Ingress protection rating: IP55.
- Mechanical protection rating: IK10.
- Structured finish, exclusively epoxy polyester paint on the outside
- RAL 7035 grey colour.

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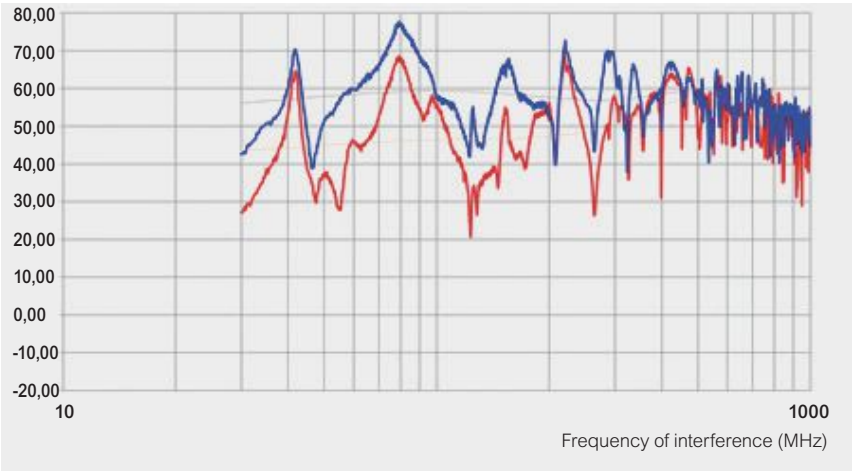
See page 522 for details or consult our web site www.se.com

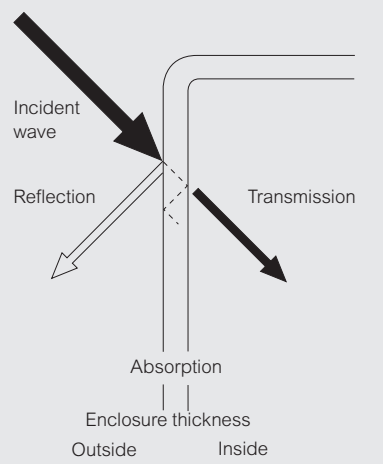
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Attenuation of electromagnetic interference

The next illustrations indicates the attenuation (dB) curves related to the frequency (MHz).

Attenuation of the Spacial S3HF enclosure

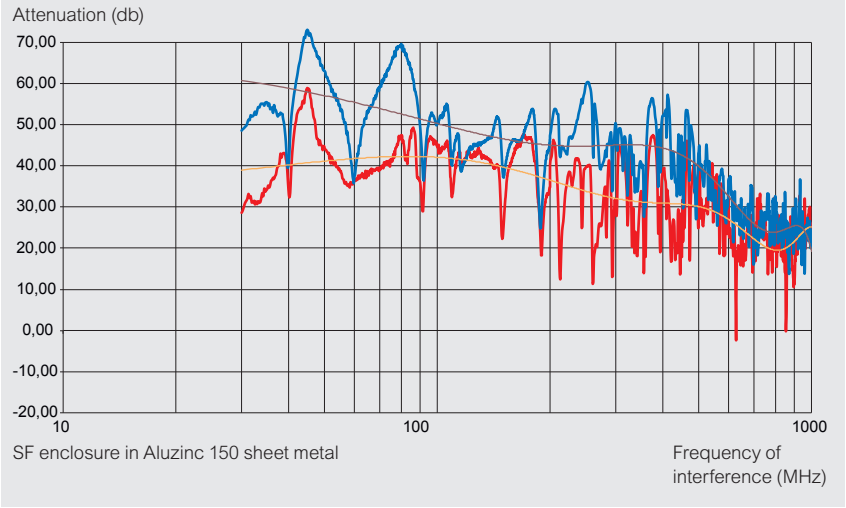




The presence of 55 % aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.

Attenuation of the Spacial SFHF suitable enclosure

Enclosure is tested with its sides panels and earth braids mounted on all claddings (Test performed following IEC 61587-3).



Attenuation curves

Horizontal attenuation

Vertical attenuation

Trend curves (polynomial of order 6)

Horizontal attenuation

Vertical attenuation

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Electromagnetic protected steel enclosures

Spacial S3HF

- Single-piece metal enclosures made from special sheets of ALUZINC 150.
- The presence of 55 % aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.

Body

- single-piece body, folded and welded,
- entirely sealed body with no cable entry and no opening,
- equipped with four shouldered backstuds allowing direct fixing of the mounting plate,
- its low resistivity promotes earth continuity,
- direct fixing or using wall fixing lugs, ref. **NSYPFCR** (to be ordered separately).

Door

- the special body-door gasket (IP + EMC) provides, in addition to water and dust tightness, electric continuity between the door and the body of the enclosure,
- the metal lock with earth continuity helps improve the general shielding,
- an earthing braid added to the enclosure between the body and the door guarantees a good earth connection and, consequently, good electromagnetic compatibility,
- 3 mm double bar lock as standard delivery (if a 405 key is needed it is possible to mount ref. **NSYCLL405CRN**).
- Other sizes: Consult us.
- Finish: Structured finish, epoxy polyester powder (inside not painted)
- Colour: RAL 7035 grey
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262
- Certifications and declarations: UL, CE declaration
- Fixing: Fixing lugs, ref. **NSYPFCR** to be ordered separately (1 set of 4 lugs)

For more details see page 469

Supply:
Enclosure delivered with galvanised mounting plate.



NSYS3HF4320P

Characteristics	Fig.	Weight (kg)	Width (mm)	Height (mm)	Depth (mm)	References
Spacial S3HF	1	7.5	300	400	200	**NSYS3HF4320P**
Spacial S3HF	2	13.0	400	600	200	**NSYS3HF6420P**
Spacial S3HF	2	20.5	600	600	250	**NSYS3HF6625P**
Spacial S3HF	2	32.8	600	800	300	**NSYS3HF8630P**
Spacial S3HF	2	53.2	800	1000	300	**NSYS3HF10830P**

Support bracket for enclosure with anti-tilt kit and reinforcement

- The support bracket is used when the enclosure cannot be hung from a wall or a post.
- Suitable for outdoor use.
- Maximum enclosure dimensions: 1000 x 800 x 300 mm.
- Floor attachment by standard M12 fastenings.
- Material: Steel
- Finish: Painted
- Colour: RAL 7035 grey
- Maximum load: 120 kg



NSYCOCNS1400

Characteristics	Height (mm)	References
Support bracket for enclosure with anti-tilt kit and reinforcement	1400	**NSYCOCNS1400**
Support bracket for enclosure with anti-tilt kit and reinforcement	1800	**NSYCOCNS1800**

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Electromagnetic protected steel enclosures

Spacial SFHF

Structure
- galvanised steel structure,
- top and bottom frame, vertical upright.

Claddings
- enclosure with screwed panels (on side and rear) and front plain door (with reinforcement frame) made from Aluzinc steel,
- side panels have to be ordered separately,
- special gasket (IP + EMC) between body, door and panels.
- Finish: Epoxy polyester paint on the outside (inside not painted)
- Colour: RAL 7035 grey
- Ingress protection rating: IP55
- Mechanical protection rating: IK10
- Certifications: RoHS compliant
- Dimensions manufacturing on demand

Note:
Only available on demand.
For more details see page 469

Supply:
- 1 single plain door with door-reinforcement frame (double door on request, please consult us).
- Left or right opening to 120°.
- Delivered with standard locking system handle and 5 mm double bar insert.
- 1 rear panel screwed from the outside.
- 1 removable roof.
- 1 part cable gland plate with special gasket (IP + EMC).



NSYSFHF18660

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Spacial SFHF	1800	600	600	
Spacial SFHF	1800	800	400	
Spacial SFHF	1800	800	600	
Spacial SFHF	2000	600	400	
Spacial SFHF	2000	600	600	
Spacial SFHF	2000	600	800	
Spacial SFHF	2000	600	1000	
Spacial SFHF	2000	800	400	
Spacial SFHF	2000	800	600	
Spacial SFHF	2000	800	800	
Spacial SFHF	2000	800	1000	
Spacial SFHF	2200	600	600	
Spacial SFHF	2200	800	600	
Spacial SFHF	2200	800	800	

Side panel

- Finish: Epoxy polyester paint on the outside (inside not painted)
- Colour: RAL 7035 grey
- Dimensions manufacturing on demand

Note:
Only available on demand.

Characteristics	Height (mm)	Width (mm)	References
Side panel	1800	600	
Side panel	1800	400	
Side panel	2000	400	
Side panel	2000	600	
Side panel	2000	800	
Side panel	2000	1000	
Side panel	2200	600	
Side panel	2200	800	

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Electromagnetic protected steel enclosures

All mounting accessories are compatible with the SF and SM standard range.
- Mounting plate (see page 235).
- Rails (see page 243).
- 19" frame (fixed and swinging) (see page 452).



Earth braids

- They guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.
- Material: Tinned copper.

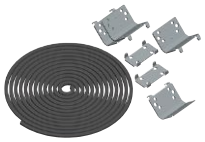
Supply:
10 earth braids (nuts and washers not included)


NSYEB156D6

Characteristics	Section (mm²)	Terminal Ø (mm)	Length (mm)	Width (mm)	References
Earth braids	6	6.5	150	12	**NSYEB156D6**
Earth braids	10	6.5	150	17	**NSYEB1510D6**
Earth braids	16	8.5	155	17	**NSYEB1516D8**
Earth braids	25	8.5	200	27	**NSYEB2025D8**
Earth braids	50	8.5	200	33	**NSYEB2050D8**

EMC coupling kit

- Used to join enclosures side-by-side or depthwise. Special gasket for EMC solution.
- Attenuation level is decreased by 5 db when enclosures are joined (please consult us).
- Ingress protection rating: IP55.


NSYSFHFBK184

Characteristics	Height (mm)	Depth (mm)	References
EMC coupling kit	1800	400	**NSYSFHFBK184**
EMC coupling kit	1800	600	**NSYSFHFBK186**
EMC coupling kit	2000	400	**NSYSFHFBK204**
EMC coupling kit	2000	600	**NSYSFHFBK206**
EMC coupling kit	2000	800	**NSYSFHFBK208**
EMC coupling kit	2000	1000	**NSYSFHFBK2010**
EMC coupling kit	2200	600	**NSYSFHFBK226**
EMC coupling kit	2200	800	**NSYSFHFBK228**

EMC cable gland with contact spring

- Thread type: Metric EN 60423, other types are available on demand
- Material: Nickel-plated brass, neoprene gasket
- Ingress protection rating: IP66
- Flame resistance: V2 depending on UL94
- Temperature range: -20°C to + 100°C
- Cable type: Unshielded

Supply:
The cable glands are supplied with nuts.
Pack of 10 (M12 and M16), of 5 (M20 and M25), of 4 (M32 and M40)


NSYCGHF12

Characteristics	Ø	Ø min/max	Drill Ø	TD	TL	Wrench width	References	
New EMC cable gland with contact spring	M12	3/6.5	12 to 12.2	12	6	14	**NSYCGHF12**	New
New EMC cable gland with contact spring	M16	5/10	16 to 16.2	16	7	20	**NSYCGHF16**	New
New EMC cable gland with contact spring	M20	6/12	20 to 20.2	20	8	22	**NSYCGHF20**	New
New EMC cable gland with contact spring	M25	11/17	25 to 25.2	25	8	27	**NSYCGHF25**	New
New EMC cable gland with contact spring	M32	15/21	32 to 32.3	32	8	34	**NSYCGHF32**	New
New EMC cable gland with contact spring	M40	19/28	40 to 40.3	40	9	43	**NSYCGHF40**	New

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Electromagnetic protected steel enclosures

Spacial S3HF

Fig. 1

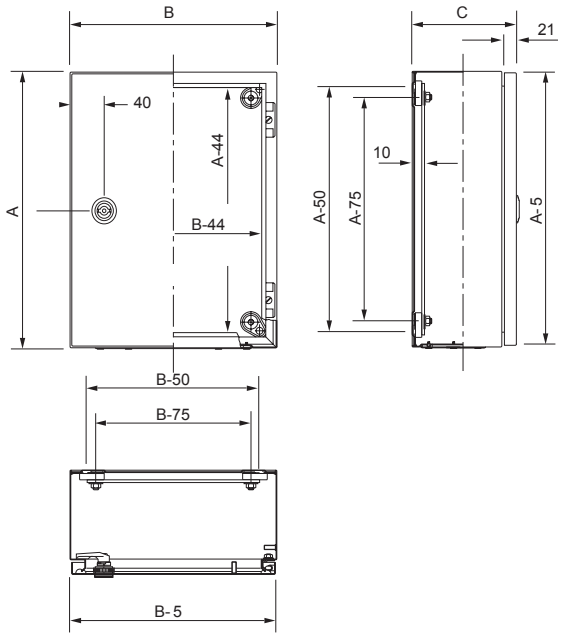
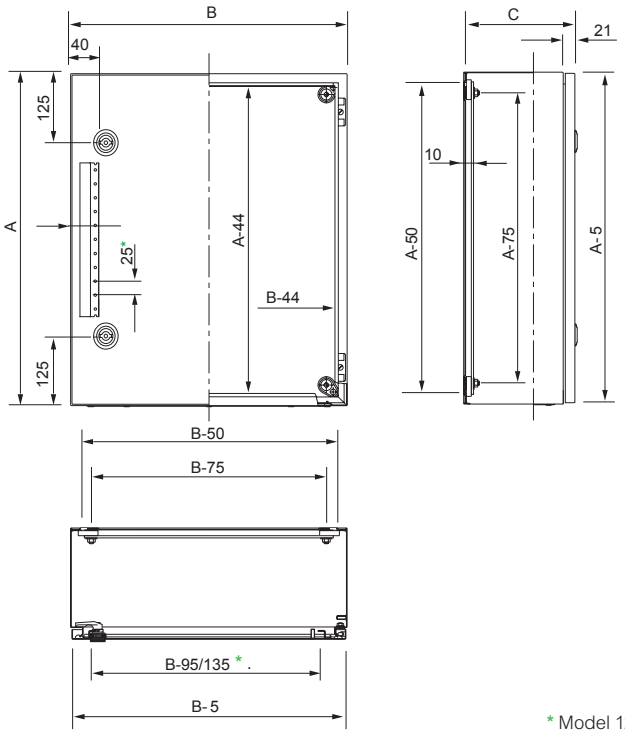


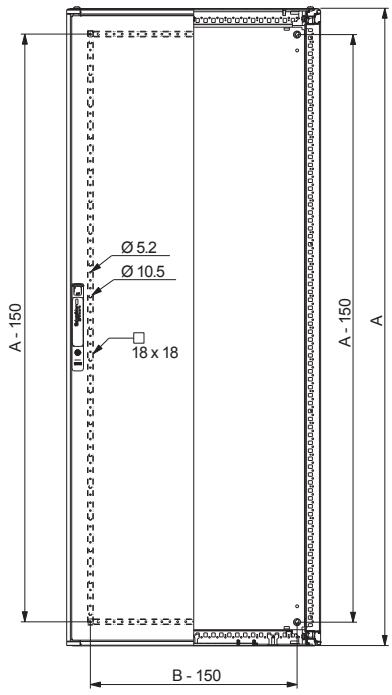
Fig. 2

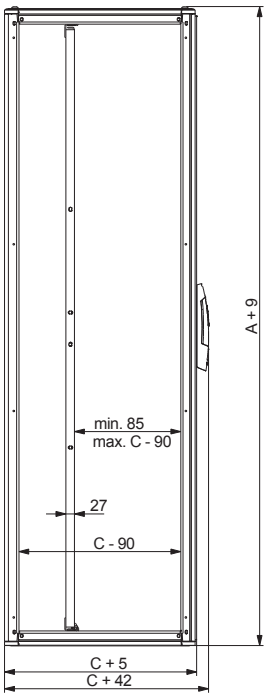


A: Height.
B: Width.
C: Depth.

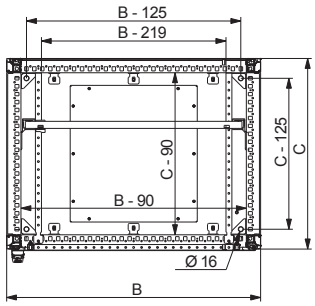
* Model 1200 x 800.

Spacial SFHF





A: Height.
B: Width.
C: Depth.



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Industrial environments, equipment rooms

Spacial S3DEX steel enclosure

The Spacial S3DEX steel enclosure is certified by the LCIE with no. LCIE 02ATEX0037U (component certification).

- Ten sizes: From 300 x 200 x 150 mm to 1000 x 800 x 300 mm.
- Degree of protection: IP66.
- Ambient temperature limits: -20°C ≤ Ta ≤ +40°C.
- Resistance to external mechanical impacts: IK10.
- Structured finish, epoxy polyester powder paint, RAL 7035 grey colour.





Personnel safety

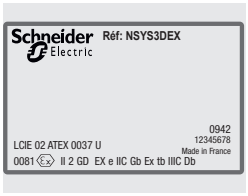
- Blind nut for external earth connection.



- The 4 fixing holes are blocked by 4 crimped blind nuts.



- Earthing studs welded to the door and inside the body.



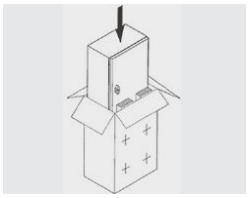
Label

- Example of specific ATEX marking (description: **Page 625**).



Robust

- The chassis is mounted on four 10 mm shouldered backstuds.



Easy handling

- Reusable, eco-friendly packaging.
- No sharp corners.

In accordance with the ATEX directive

- The enclosures bear the marking shown **page 625**.
- The enclosures offer a degree of protection of IP66 according to EN 60629, reaching the highest dust protection according to ATEX standards.
- The certification of our production sites and inspection procedures guarantees the observance and regularity of the quality level.

Protective of all applications in ATEX II2 or II3 areas

- surface installations with occasional or accidental
- thanks to ATEX-certified steel.

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Enclosures for explosive atmospheres

ATEX cubicles from Schneider Electric

Steel

Steel enclosures

- All the wall-mounting enclosures presented in this brochure comply with standards for protection against the potential risk of explosion in atmospheres charged with gas (G) or dust (D).
- The Schneider Electric offer, designed to be used in group II, is classified as category 2.

Protection of equipment against explosions			ATEX	
Group *	Category	Level	Probability	Zone
I	M1	Very high	Permanent	0 / 20
I	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
II	2	High	Occasional	1 / 21
II	3	Normal	Accidental	2 / 22

* I = equipment designed to be used in the mining and quarrying industries
II = equipment designed to be used in surface industries

Zone of application of Schneider Electric ATEX wall-mounting enclosures.

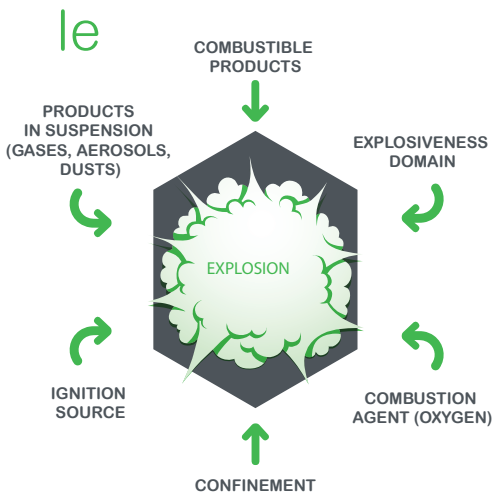
- Category 2 products can be used as category 3.

Our products are certified:

- for gaseous atmospheres: In enhanced safety "e" (Ex e) but not in explosion-proof safety "d" (Ex d);
- for dusty atmospheres: In protection by enclosure "t" or "tb".
- The wall-mounting enclosures offer a degree of protection IP66 according to IEC 60529, exceeding the recommendations of the ATEX directive.
- Certification of our production sites and inspection procedures guarantees observance and consistency of the quality level.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Potentially explosive atmospheres (or ATEX)



Explosion hexagon

Process leading to an explosion in an explosive atmosphere

For an explosion to occur, six conditions must be met simultaneously (see explosion hexagon opposite). The process is as follows:

- mix combustible substances (gases, dusts) with air whose oxygen acts as combustion agent;
- dose combustible products and combustion agents in precise proportions; you thus obtain a potentially explosive atmosphere;
- confine the explosive atmosphere thus obtained in a place conducive to explosion;
- place it in contact with an ignition source having sufficient energy to cause an explosion.

ATEX regulations

Two EU directives and an international standard regulate potentially explosive atmospheres:

- The objective of the two EU directives (the so-called ATEX directives) is to enhance protection from explosions by making various technical and organizational measures compulsory:
- the 2014/34/EU directive (a revision of the 94/9/EC directive) came into application on 20 April 2016. It describes the requirements that must be met by protection devices and systems, and the conformity assessment procedures;
- the 99/92/EC directive, a labour relations supplement to the preceding one, presents the minimum requirements to be met to improve the protection of workers liable to be exposed to ATEX-related risks.

Definition

Product directive 2014/34/UE:
defines the manufacturers' obligations.

Personal protection directive 99/92/CE:
defines the users' obligations.

Degree of protection:
In hazardous areas, equipment is required to offer a minimum degree of protection of IP54,
but it can be tested or certified with a higher degree of protection.

- An IEC international standard harmonized with the European standard EN:
- IEC 60079: electrical equipment for potentially explosive gaseous atmospheres.

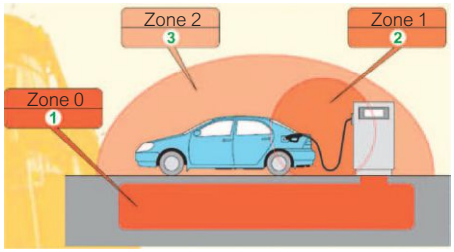
Classification

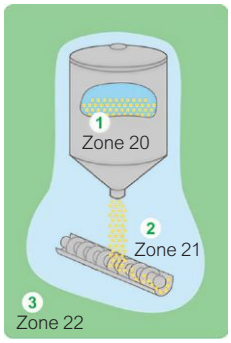
Locations liable to be in the presence of an explosive atmosphere have been classified according to 2 criteria:

- the probability assessed on a scale comprising 3 levels;
- the nature of the combustible product.

The following 6 ATEX zones are obtained:

Probability of an explosive atmosphere	Gas / Vapour or mist	Dust
Place in which an explosive atmosphere is present **constantly**, or for long periods or frequently	Zone 0	Zone 20
Place in which an explosive atmosphere is likely to occur **occasionally** in normal operation	Zone 1	Zone 21
Place in which an explosive atmosphere is not likely to occur in normal operation or, if it does occur, will persist for a **short period** only	Zone 2	Zone 22





Equipment installed in an explosive atmosphere zone must be protected against the risk of explosion. Three levels of protection have been defined, corresponding to the three probabilities of existence of an explosive atmosphere. They are broken down into 5 categories depending on the type of industry.

Protection of equipment against explosions			ATEX	
Group *	Category	Level	Probability	Zone
I	M1	Very high	Permanent	0 / 20
I	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
II	2	High	Occasional	1 / 21
II	3	Normal	Accidental	2 / 22

* I = equipment designed to be used in the mining and quarrying industries
II = equipment designed to be used in surface industries

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Protection of electrical equipment

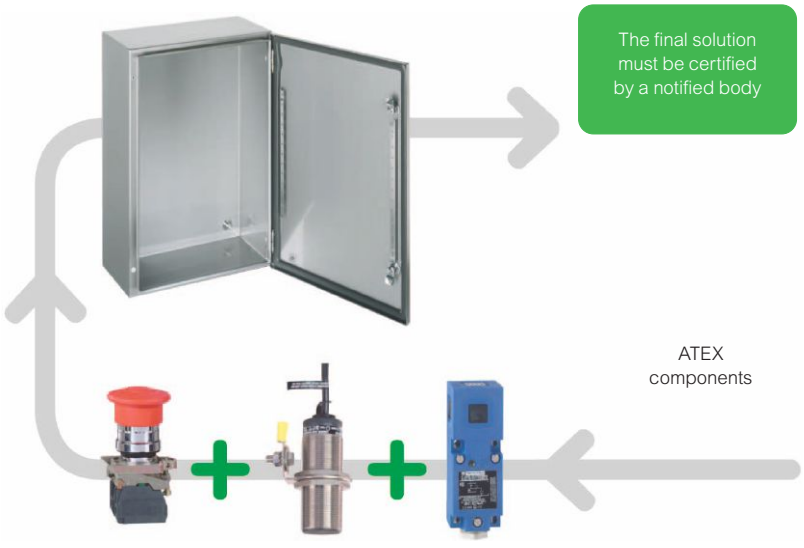
The standards have defined various methods of protection for electrical equipment depending on whether it is located in gaseous or dusty explosive atmospheres.

Electrical equipment		ATEX	Methods of protection	
CENELEC	IEC		Symbol	Title
EN 50015	IEC 60079-6	G, D	o	Immersion in oil
EN 50016	IEC 60079-2	G, D	p	Enclosures with internal overpressure
EN 50017	IEC 60079-5	G, D	q	Filling with powder product
EN 60079-1	IEC 60079-1	G, D	d	Explosion-proof enclosures
EN 60079-7	IEC 60079-7	G, D	e	Enhanced safety "e"
EN 50020	IEC 60079-11	G, D	i	Intrinsic safety
EN 60079-15	IEC 60079-15	G, D	n	Product design
EN 60079-31	IEC 60079-31	G, D	tD	Protection by enclosure "t"

G = gas / vapour or mist
D = dust

ATEX certification of electrical switchboards

- Since 1 July 2003, the European Union has made it compulsory to use certified equipment (electrical or non-electric) when it is to be installed in areas where the atmosphere is potentially explosive.
- The certification must be established by an approved organization in accordance with the 2014/34/EU directive.
- The organization certifies that the product complies with the health and safety requirements defined in the European directive and the international standards.
- The certificate indicates, via the marking, the product's category and accordingly the zone and the atmosphere in which it can be used.
- Cubicles are certified as components. They will be assembled with other ATEX components (electrical, pneumatic, hydraulic, etc.), to form an end solution which must itself be ATEX certified and covered by a declaration of conformity.



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Spacial S3DEX

Protection for users
- Earthing: The Spacial S3DEX steel cubicles are provided with M6 x 16 earth studs welded to the casing and door for equipotential connection. Earth strap to be ordered separately.
- Closing: Above a height of 600 mm the cubicles are provided with three fastening points with connecting rods, with a single control point preventing the cubicles from being left half-open.

Casing
- Monobloc casing (cross structure). Gutter-shaped front profile.
- 4 bottom shoulder studs M8 x 25 for mounting the chassis and notched bars to provide a space of 10 mm at the rear.

Door
- Standard fastening by 3 mm double bar lock
- Polyurethane door seal
- Double-thickness 20 mm return conferring excellent rigidity;
- 2 invisible hinges (3 above H = 800 mm) facilitate dismounting and reversibility of the door. Opening angle: 120°
- Maximum load: 50 kg/m².
- Pierced sections on the door, with holes of diameter 4.2 mm every 25 mm for mounting accessories:
- 2 vertical sections as of H = 400 mm;
- 2 vertical sections and 2 horizontal sections as of L = 800 mm.

Specific ATEX features
- 4 fastening holes stopped up by 4 crimped blind nuts.
- One crimped M8 blind nut for an external frame earth link (strap not provided)
- Ambient temperature: -20°C ≤ Ta ≤ +40°C
- Marking: See page 625.
- Material: Steel
- Finish: Structured finish, epoxi-polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP66 (enclosures with single door) according to IEC 60529
- Mechanical protection rating: IK10 (enclosures with plain door) according to IEC 62262
- Fixing: Wall fixing lugs:
  Passivated zinc-coated steel: Reference **NSYAEFPFSC**
  304L stainless steel: Reference **NSYAEFPFXSC**


NSYS3DEX3215

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
Spacial S3DEX	300	200	150	**NSYS3DEX3215**
Spacial S3DEX	300	300	200	**NSYS3DEX3320**
Spacial S3DEX	400	300	200	**NSYS3DEX4320**
Spacial S3DEX	400	400	200	**NSYS3DEX4420**
Spacial S3DEX	500	400	200	**NSYS3DEX5420**
Spacial S3DEX	600	400	250	**NSYS3DEX6425**
Spacial S3DEX	600	600	250	**NSYS3DEX6625**
Spacial S3DEX	700	500	250	**NSYS3DEX7525**
Spacial S3DEX	800	600	300	**NSYS3DEX8630**
Spacial S3DEX	1000	800	300	**NSYS3DEX10830**

The accessories of the Spacial standard wall-mounting enclosures can be installed in the Spacial S3DEX wall-mounting enclosures.
However, plastic accessories should not be used, due to the risk of a static charge.

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Enclosures for explosive atmospheres

Mounting plate Plain


NSYMM32

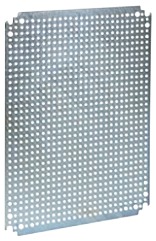
Characteristics	Height (mm)	Width (mm)	References
Mounting plate Plain	300	200	**NSYMM32**
Mounting plate Plain	300	300	**NSYMM33**
Mounting plate Plain	308	255	**NSYMM3025**
Mounting plate Plain	400 / 430	300 / 330	**NSYMM43**
Mounting plate Plain	400	400	**NSYMM44**
Mounting plate Plain	500 / 530	400 / 430	**NSYMM54**
Mounting plate Plain	600 / 647	400 / 436	**NSYMM64**
Mounting plate Plain	600	600	**NSYMM66**
Mounting plate Plain	700 / 747	500 / 536	**NSYMM75**
Mounting plate Plain	800 / 847	600 / 636	**NSYMM86**
Mounting plate Plain	1000 / 1056	800 / 852	**NSYMM108**

Mounting plate Silkscreened


NSYMS43

Characteristics	Height (mm)	Width (mm)	References
Mounting plate Silkscreened	400 / 430	300 / 330	**NSYMS43**
Mounting plate Silkscreened	400	400	**NSYMS44**
Mounting plate Silkscreened	500 / 530	400 / 430	**NSYMS54**
Mounting plate Silkscreened	600 / 647	400 / 436	**NSYMS64**
Mounting plate Silkscreened	600	600	**NSYMS66**
Mounting plate Silkscreened	700 / 747	500 / 536	**NSYMS75**
Mounting plate Silkscreened	800 / 847	600 / 636	**NSYMS86**

Mounting plate Microperforated


NSYMF33

Characteristics	Height (mm)	Width (mm)	References
Mounting plate Microperforated	300	300	**NSYMF33**
Mounting plate Microperforated	400 / 430	300 / 330	**NSYMF43**
Mounting plate Microperforated	400	400	**NSYMF44**
Mounting plate Microperforated	500 / 530	400 / 430	**NSYMF54**
Mounting plate Microperforated	600 / 647	400 / 436	**NSYMF64**
Mounting plate Microperforated	600	600	**NSYMF66**
Mounting plate Microperforated	700 / 747	500 / 536	**NSYMF75**
Mounting plate Microperforated	800 / 847	600 / 636	**NSYMF86**
Mounting plate Microperforated	1000 / 1056	800 / 852	**NSYMF108**

Mounting plate Telequick


NSYMR32

Characteristics	Height (mm)	Width (mm)	References
Mounting plate Telequick	300	200	**NSYMR32**
Mounting plate Telequick	300	300	**NSYMR33**
Mounting plate Telequick	308	255	**NSYMR3025**
Mounting plate Telequick	400 / 430	300 / 330	**NSYMR43**
Mounting plate Telequick	500 / 530	400 / 430	**NSYMR54**
Mounting plate Telequick	600 / 647	400 / 436	**NSYMR64**
Mounting plate Telequick	600	600	**NSYMR66**
Mounting plate Telequick	700 / 747	500 / 536	**NSYMR75**
Mounting plate Telequick	800 / 847	600 / 636	**NSYMR86**
Mounting plate Telequick	1000 / 1056	800 / 852	**NSYMR108**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Enclosures for explosive atmospheres

Mixed symmetrical chassis



NSYMD33

Characteristics	Height (mm)	Width (mm)	References
Mixed symmetrical chassis	300	300	**NSYMD33**
Mixed symmetrical chassis	400	300	**NSYMD43**
Mixed symmetrical chassis	500	400	**NSYMD54**
Mixed symmetrical chassis	600	400	**NSYMD64**
Mixed symmetrical chassis	600	600	**NSYMD66**
Mixed symmetrical chassis	700	500	**NSYMD75**
Mixed symmetrical chassis	800	600	**NSYMD86**
Mixed symmetrical chassis	1000	800	**NSYMD108**

Step slides



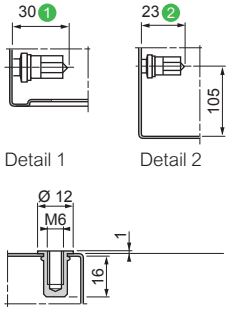
NSYSDCR200

Characteristics	Depth (mm)	References
Step slides	200	**NSYSDCR200**
Step slides	200	**NSYDPLM200**
Step slides	250	**NSYSDCR250**
Step slides	250	**NSYDPLM250**
Step slides	300	**NSYSDCR300**
Step slides	300	**NSYDPLM300**
Step slides	350	**NSYDPLM350**

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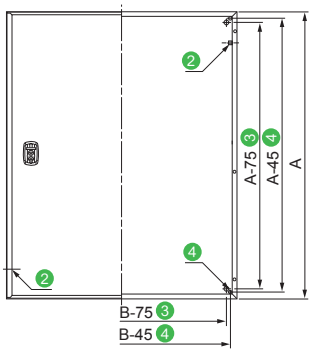
Enclosures for explosive atmospheres

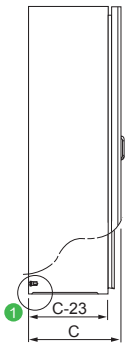
1-door enclosure



Detail 1 Detail 2

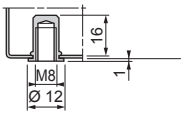
Detail 4
4 crimped blind nuts for direct fixing of the fixing lugs



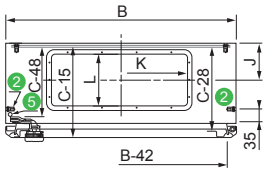


1 4 M8 x 25 mm backstuds.
2 2 M6 x 17.5 mm earthing studs.
3 Stud centre-to-centre distance.
4 Crimped blind nut centre-to-centre distance.
5 Blind nut for external earth.

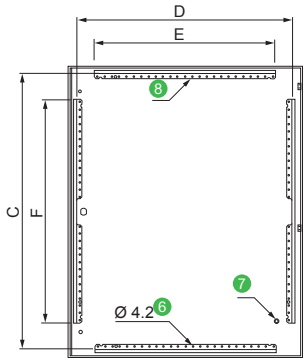
A: Height
B: Width
C: Depth



Detail 5
1 crimped blind nut for the external earth



Perforated rails on the door



Enclosure (8)		Perforated rails on the door (mm)			
Height (A) (mm)	Width (B) (mm)	Vertical F	Vertical D	Horizontal E	Horizontal C
400	300	320	237	-	-
400	400	320	337	-	-
600	400	370	337	-	-
600	600	370	537	-	-
700	500	470	437	-	-
800	600	570	537	-	-
1000	800	770	737	620	949

6 Perforations with a pitch of 25 mm.
7 1 M6 x 17.5 mm earthing stud.
8 The doors of enclosures with dimensions less than 800 x 600 mm do not have horizontal wire guides.

11

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Human-Machine Interface Solutions

Indoor non-clean industrial environment

Steel

Control enclosure with suspension system



Control Desks



PC racks



Demanding industrial environment

Stainless steel

Control Desks



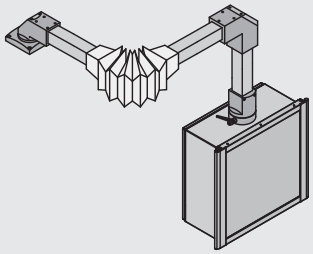
PC racks



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Human-Machine Interface

S3CM



See page 480

Spacial S3CM Control enclosure with suspension system

The Spacial S3CM offer for human-machine interface combines robustness with aesthetics and ergonomics. Consist of:

- control enclosure,
- a keyboard-box,
- a suspension system of arms and joints, for a fixed or rotating solutions, and support accessories.

SD



See page 487

Spacial SD Control desks

The range of Spacial SD control desks provides all the functions required of a workstation intended for industrial and infrastructure applications. Spacial SD offers two clearly differentiated solutions:

- the SD Compact control desk,
- the SD Control desk with console.

The range has protection ratings of IP55 and IK10, which guarantee the safety and the protection of the installed devices.

SF



See page 502

Spacial SF suitable PC rack

The Spacial SF PC rack is designed to protect and control computer equipment in an industrial environments. Access to the various functions and working heights, guaranteeing optimum comfort. The roof and panels, fixed from the inside, prevent access by unauthorised personnel.

SDX



See page 488

Spacial SDX Control desks

The Spacial SDX range of control desks offers all the functions required to set up a control station that meets the industrial or infrastructural needs of applications in harsh environments or in the food and beverage sector. Easy to implement, compatible with dialogue components, guaranteeing the security and protection of control devices, these control desks, with their range of dimensions, meet the strictest needs of their users.

SMX



See page 506

Spacial SMX monobloc PC rack

The stainless steel monobloc PC racks have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid. Access to the various functions and working heights, guaranteeing optimum comfort.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Human-Machine Interface

The Spacial S3CM offer for human-machine dialogue consists of:

control enclosures, a box-keyboard, a system of arms and joints fixed or rotating, accessories.
The global dialogue system combines robustness with aesthetics and ergonomics.

This range can be configured according to your needs

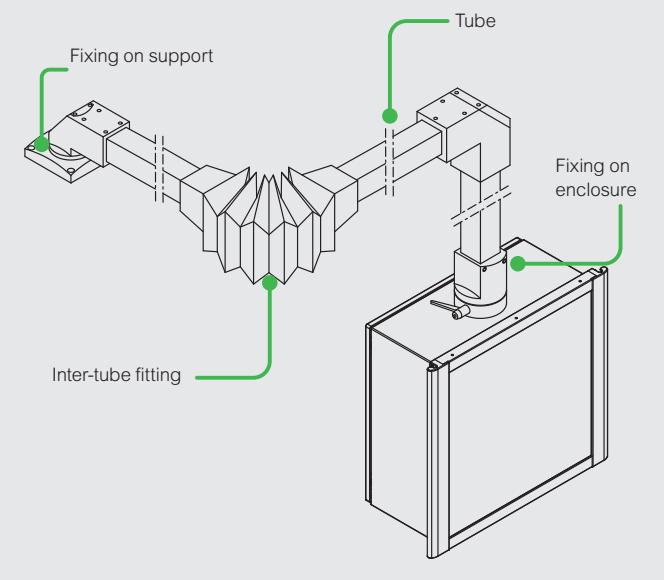
4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining



Human-Machine Interface Solutions



Robust

2 tube sizes in extruded steel, 50 and 80 mm square, thickness 40/10e mm.
Top wall reinforced by a plate with a thickness of 30/10e mm.



Easy

Easy access to the equipment by a rear door, opening to 120°.
Direct installation of accessories on the enclosure frame rail:
- vertical document support,
- keyboard support,
- laptop computer support.

A box-keyboard is installed directly on the enclosure.



Aesthetics

Extruded aluminium rail frame.
RAL 7040 paint: Frame.
RAL 7035 grey paint: Enclosure.
Customisation to your image or the aesthetics of your machine: Consult us.



Flexibility

Flexibility



Ergonomics

Frame designed for handling the enclosure and facilitating the usage by the operator.

See page 522 for details or consult our web site www.se.com

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Life Is On Schneider Electric

Human-Machine Interface

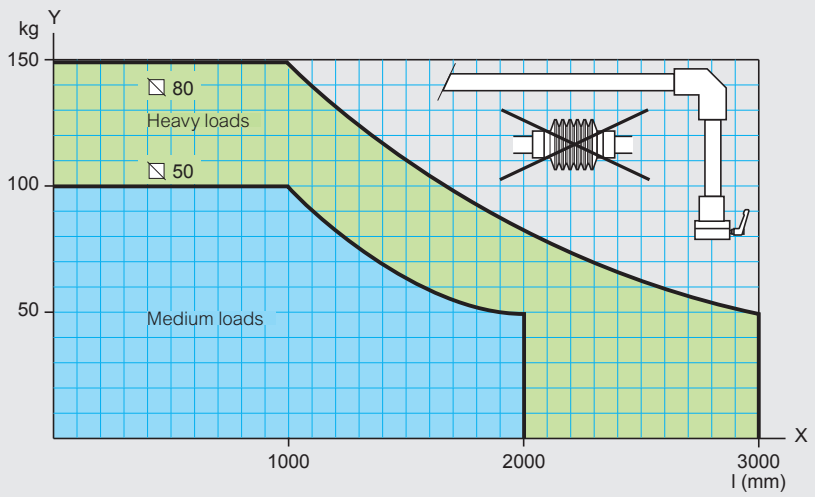
Every model is suitable for tubes with a square section of:
- 50 mm for medium loads,
- 80 mm for heavy loads

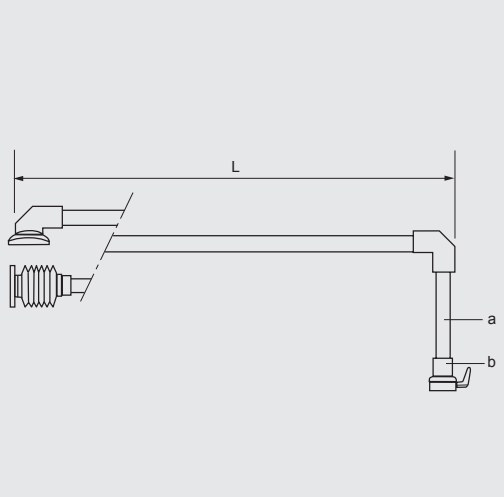
(see selection table on **page 482**).

Steps to choose the suspension system (medium or heavy loads)

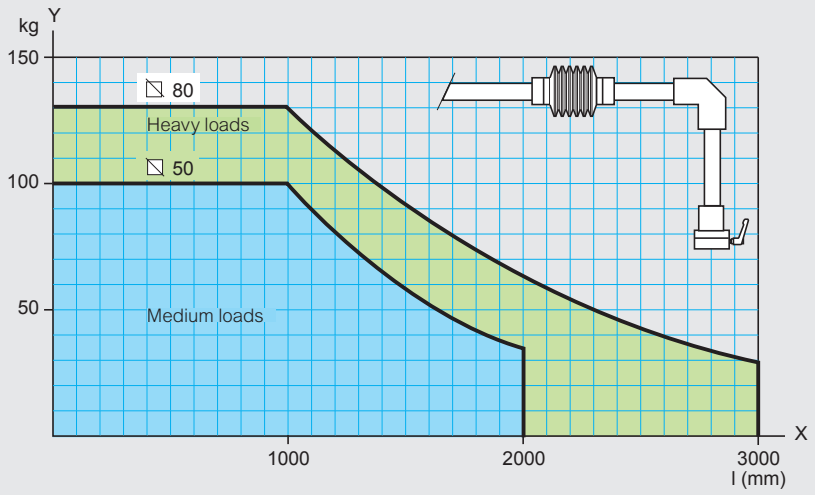
1 - Define the total load of the system*: a + b + enclosure + installed equipment (Y axis).
2 - Define the length of arm L (X axe).
3 - Define the configuration:

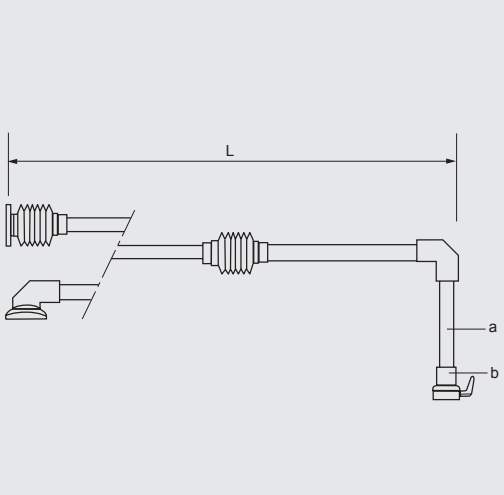
Suspension system without intermediate joint.





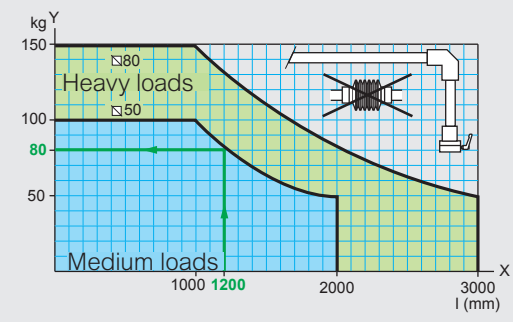
Suspension system with intermediate joint.





* The load (a + b + enclosure + installed equipment) must be less than the maximum load.

Example



1 - Total load (kg) = 80 kg.
2 - Length (L) = 1200 mm.
3 - Suspension system without intermediate joint.

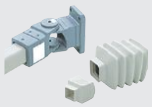
Recommended system
> Medium loads Ø 50.

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Human-Machine Interface

Enclosure dimensions (mm)				Tube section U 50 mm	Tube section U 80 mm
	H (mm)	W (mm)	D (mm)	References	References
	300	300	200	**NSYS3CM303020**	-
	300	400	200	**NSYS3CM304020**	-
	400	400	200	**NSYS3CM404020**	-
	400	600	250	**NSYS3CM406025***	-
	500	500	250	**NSYS3CM505025**	-
	600	600	200	**NSYS3CM606020***	-
	600	800	300	-	**NSYS3CM608030**
	800	600	300	-	**NSYS3CM806030***

Tube		Tube section U 50 mm	Tube section U 80 mm
	Length (m)	References	References
	0.5	**NSYCMT5005**	**NSYCMT8005**
	1	**NSYCMT5010**	**NSYCMT8010**
	1.5	**NSYCMT5015**	**NSYCMT8015**
	2	**NSYCMT5020**	**NSYCMT8020**

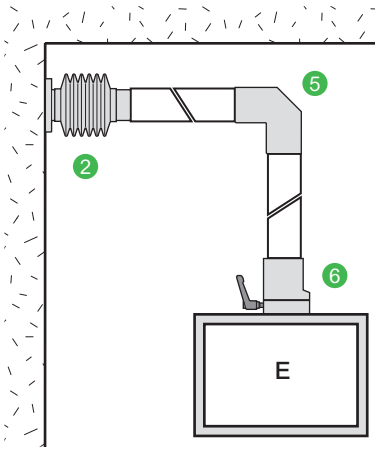
Fixing on support (steel material)		Tube section U 50 mm	Tube section U 80 mm
		References	References
	1 Fixed base	**NSYCMUMR50**	**NSYCMUMR80**
	2 Wall fixing with joint	**NSYCMUMA50**	**NSYCMUMA80**
	3 Rotating straight fitting	**NSYCMUMC50**	**NSYCMUMC80**

Inter-tube fitting (aluminium material)		Tube section U 50 mm	Tube section U 80 mm
		References	References
	4 Horizontal inter-tube joint	**NSYCMUIA50**	**NSYCMUIA80**
	5 Fixed bracket	**NSYCMUTC50**	**NSYCMUTC80**

Fixing on enclosure (aluminium material)		Tube section U 50 mm	Tube section U 80 mm
		References	References
	6 Rotating fixing on enclosure	**NSYCMUCR50**	**NSYCMUCR80**
	7 Rotating fixing in bracket on enclosure	**NSYCMUCC50**	**NSYCMUCC80**
	8 Tilting fixing on enclosure	**NSYCMUCP50**	**NSYCMUCP80 (1)**

* Enclosure equipped with a cable gland plate.
(1) Installation on an enclosure D300 requires plate ref. **NSYCMUCPAD87** (see page 486).

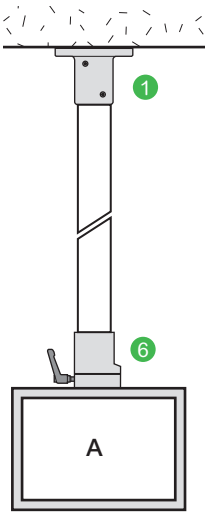
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Fixing on support
2 See page 485

Inter-tube fitting
5 See page 486

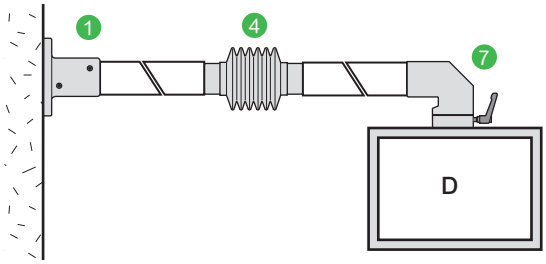
Fixing on enclosure
6 See page 486



Fixing on support
1 See page 485

Inter-tube fitting

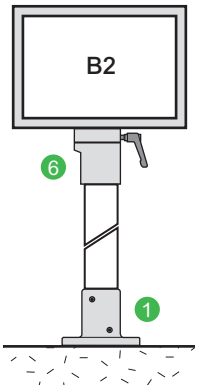
Fixing on enclosure
6 See page 486



Fixing on support
1 See page 485

Inter-tube fitting
4 See page 485

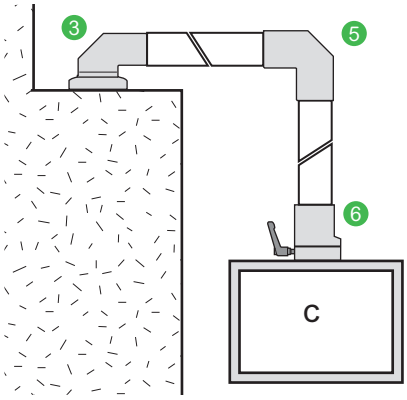
Fixing on enclosure
7 See page 486



Fixing on support
1 See page 485

Inter-tube fitting

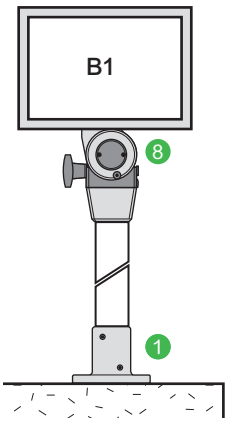
Fixing on enclosure
6 See page 486



Fixing on support
3 See page 485

Inter-tube fitting
5 See page 486

Fixing on enclosure
6 See page 486



Fixing on support
1 See page 485

Inter-tube fitting

Fixing on enclosure
8 See page 486

11

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Spacial S3CM

The control enclosures consist of:
A steel body equipped with:
- reinforcement plate: The top wall is reinforced by a plate (3 mm) and pierced with a hole Ø 54 or 87 mm (according to the reference) to allow hanging installation of the enclosure,
- 4 welded studs on the 2 inner vertical walls, for fixing the rails,
- 2 rails (with drill holes) for installing equipment,
- a rear door, opening to 120° and closing with double bar lock.

(1) Enclosure equipped with a cable gland plate

An aluminium front face (2.5 mm thick):
- this surface is protected on both sides by a plastic film, allowing the installation of the dialogue elements,
- a trim frame made from 4 extruded-aluminium rails.
- Structured finish, epoxy polyester powder, RAL 7040 grey colour (other colours on demand).
- The design of these rails takes into account the accessory mounting functions (lamp, document support, keyboard support, laptop support, etc.), the ergonomics for handling the enclosure and its overall aesthetics.
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP54 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

For more details see page 508


NSYS3CM303020

Characteristics	Enclosure load (kg)	Tube section (mm)	Height (mm)	Width (mm)	Depth (mm)	References
HMI encl. Spacial S3CM	8.6	50	300	300	200	**NSYS3CM303020**
HMI encl. Spacial S3CM	9.5	50	300	400	200	**NSYS3CM304020**
HMI encl. Spacial S3CM	11.4	50	400	400	200	**NSYS3CM404020**
HMI encl. Spacial S3CM (1)	17.9	50	400	600	250	**NSYS3CM406025**
HMI encl. Spacial S3CM	20.2	50	500	500	250	**NSYS3CM505025**
HMI encl. Spacial S3CM (1)	26.5	50	600	600	200	**NSYS3CM606020**
HMI encl. Spacial S3CM	34.9	80	600	800	300	**NSYS3CM608030**
HMI encl. Spacial S3CM (1)	33.6	80	800	600	300	**NSYS3CM806030**

Human-Machine Interface Specific accessories

Box-keyboard for control enclosure

- The box is installed on the control enclosures with a width of 600 mm. It then has an angle of 120° with its front face. All the accessories required for installation are delivered with 2 brackets and 1 trim rail, 1 hose for cable entry.

The box for the consists of:
- a steel body, structured finish, epoxy polyester powder, RAL 7035 grey colour, with a screwed cover, an aluminium front face (2.5 mm thick) for installing a keyboard,
- a trim frame made from 2 extruded-aluminium rails guaranteeing ergonomic handling of the box and the aesthetics of the unit. The frame and the front face are delivered assembled. Structured finish, epoxypolyester powder, RAL 7040 grey colour.
- Ingress protection rating: IP54
- Mechanical protection rating: IK10
- Weight: 8 kg

For more details see page 509


NSYCMT2560110

Characteristics	Height (mm)	Width (mm)	References
Box-keyboard for control enclosure	250	600	**NSYCMT2560110**

Support

- Installation on the left or right rail of the frame of the control enclosure.
- Material: Sheet steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Thickness: 15/10e mm

For more details see page 509


NSYCMBPT

Characteristics	References
Support for Keyboard	**NSYCMBPT**

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Human-Machine Interface

Tube

The tubes are available in:
- 2 sizes: Square of 50 and 80 mm,
- 4 lengths: 0.5, 1, 1.5 and 2 m
- Material: Extruded steel
- Finish: structured finish, powder
- Colour: RAL 7035 grey
- Thickness: 40/10e mm


NSYCMT5005

Characteristics	Square (mm)	Length (m)	Weight (kg/m)	References
Tube	50	0.5	6.5	**NSYCMT5005**
Tube	50	1	6.5	**NSYCMT5010**
Tube	50	1.5	6.5	**NSYCMT5015**
Tube	50	2	6.5	**NSYCMT5020**
Tube	80	0.5	10.5	**NSYCMT8005**
Tube	80	1	10.5	**NSYCMT8010**
Tube	80	1.5	10.5	**NSYCMT8015**
Tube	80	2	10.5	**NSYCMT8020**

Fixed base

- Support foot for direct horizontal or vertical connection.
- Material: Moulded steel
- Colour: RAL 7040 grey

For more details see page 510


NSYCMUMR50

Characteristics	Square (mm)	Weight (kg)	References
Fixed base	50	3.25	**NSYCMUMR50**
Fixed base	80	7	**NSYCMUMR80**

Wall fixing with joint

- Device allowing rotation through 170° of a horizontal tube, with a square section of 50 or 80 mm, and its fixing on a vertical surface.
- Protection by bellows, RAL 7035 grey colour.
- Possibility of passing cables through the inside of the joint.
- Material: Moulded steel
- Colour: RAL 7040 grey

For more details see page 510



NSYCMUMA50

Characteristics	Square (mm)	Weight (kg)	References
Wall fixing with joint	50	4.35	**NSYCMUMA50**
Wall fixing with joint	80	9.45	**NSYCMUMA80**

Rotating straight fitting

- Device allowing the fixing and rotation through 295° of tubes, with a square section of 50 or 80 mm, in horizontal position.
- Without blocking the chosen position.
- Fixing by 4 screws, not included.
- Material: Moulded steel
- Colour: RAL 7040 grey

For more details see page 510



NSYCMUMC50

Characteristics	Square (mm)	Weight (kg)	References
Rotating straight fitting	50	5.4	**NSYCMUMC50**
Rotating straight fitting	80	15.7	**NSYCMUMC80**

Horizontal inter-tube joint

- Device allowing the linking and rotation through 170° of 2 horizontal tubes, with a square section of 50 or 80 mm.
- Protection by bellows, RAL 7035 grey colour.
- Possibility of passing cables through the inside of the joint.
- Material: Moulded steel
- Colour: RAL 7040 grey

For more details see page 510

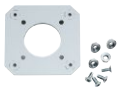


NSYCMUIA50

Characteristics	Square (mm)	Weight (kg)	References
Horizontal inter-tube joint	50	4.25	**NSYCMUIA50**
Horizontal inter-tube joint	80	10	**NSYCMUIA80**

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Adapter part for enclosure D300 / Ø 80 mm


NSYCMUCPAD87

Characteristics	Square (mm)	Weight (kg)	References
Adapter part for enclosure D300 / Ø 80 mm	80	0.5	**NSYCMUCPAD87**

Fixed bracket

- Our system of tubes and joints, fixed or rotating, enables all the solutions to respond to the installation needs of the control enclosures for human-machine dialogue.
- Device allowing the combination and fixing of a horizontal tube with a vertical tube.
- Material: Aluminium
- Colour: RAL 7040 grey

For more details see page 511


NSYCMUTC50

Characteristics	Square (mm)	Weight (kg)	References
Fixed bracket	50	1.35	**NSYCMUTC50**
Fixed bracket	80	2.4	**NSYCMUTC80**

Rotating fixing on enclosure

- Device allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in vertical position.
- System for blocking in the chosen position.
- Fixing through the support surface by 4 screws.
- Material: Aluminium
- Colour: RAL 7040 grey

For more details see page 511



NSYCMUCR50

Characteristics	Square (mm)	Weight (kg)	References
Rotating fixing on enclosure	50	1.25	**NSYCMUCR50**
Rotating fixing on enclosure	80	3.1	**NSYCMUCR80**

Rotating fixing in bracket on enclosure

- Devices allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in horizontal position.
- System for blocking in the chosen position.
- Fixing through the support surface by 4 screws.
- Material: Aluminium
- Colour: RAL 7040 grey

For more details see page 511



NSYCMUCC50

Characteristics	Square (mm)	Weight (kg)	References
Rotating fixing in bracket on enclosure	50	2	**NSYCMUCC50**
Rotating fixing in bracket on enclosure	80	6.55	**NSYCMUCC80**

Tilting fixing on enclosure

- This fixing allows the enclosures to be tilted up to 30°.
- System for blocking in the chosen position.
- It is installed on enclosures with depths of 200 and 250 mm.
- The installation on enclosures with a depth of 300 mm requires an adapter plate.
- Material: Aluminium + PA
- Colour: RAL 7040 grey + PA black

For more details see page 511


NSYCMUCP50

Characteristics	Square (mm)	Weight (kg)	References
Tilting fixing on enclosure	50	2.98	**NSYCMUCP50**
Tilting fixing on enclosure	80	3.10	**NSYCMUCP80**

Adapter for signalling beacon

- It is installed on fixed brackets ref. **NSYCMUTC50** and **NSYCMUTC80**.
- Material: Aluminium.
- Finish: Structured finish, powder.
- Colour: RAL 7040 grey

For more details see page 511


NSYCMACS50

Characteristics	Square (mm)	Weight (kg)	References
Adapter for signalling beacon	50	0.025	**NSYCMACS50**
Adapter for signalling beacon	80	0.08	**NSYCMACS80**

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Human-Machine Interface

The range of **Spacial SD** control desks provides all the functions required of a workstation intended for industrial and infrastructure applications.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

Painting

Machining



Steel control desks



Accessibility

There are two versions of the Compact control desk:

- Front accessibility: Designed for straight-forward solutions.
- Front and rear accessibility through a removable panel: Enables the installation of two adjoining plates and to work at the rear. The control desk with console offers full accessibility, since it is fully accessible from the rear thanks to the 3-point closure door it includes. For Spacial SD, the accessibility which allows quick and easy work is one of its main priorities. For this reason, its design excludes the central upright.



Convenience

The possibility of connecting the modular control desk to the modular consoles affords multiple combinations. The opening direction of the door can be changed quickly thanks to the included hinges.



Easy

The console opens easily and safely thanks to the installed pneumatic opening lid stays. Cable entry is optimised because all the models of the range include a cable gland plate with two adjustable parts.



Compatibility

Furthermore, the Spacial SD control desk is compatible with most of the accessories of the Spacial SF and SM ranges.

See page 522 for details or consult our web site www.se.com

11

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Human-Machine Interface

The association of a monobloc control desk with one or more consoles enables all combinations. Complete accessibility to the inside of the control desk thanks to its design without intermediate crossbars.

This range can be configured according to your needs

4 differents services available:

Assemble to order

Mounting of standard accessories

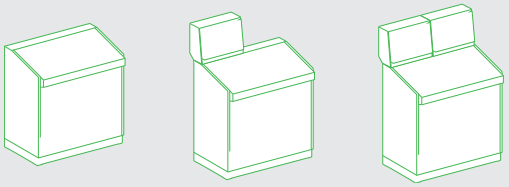
Painting

Machining



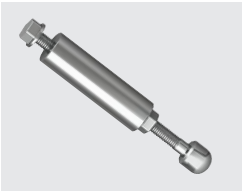
Examples of associations

Consoles and control desks



Multiple combinations available.

Stainless steel control desks



Hygiene

The high quality of the standard finish enables very easy maintenance while avoiding contamination. The hygienic feet made from 316L stainless steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures.



Compatibility with the other ranges

Stainless steel accessories:

- plinths, locks.

Accessories of the steel control desks offer:

- mounting plate, pneumatic opening stay, etc.



Resistance to corrosion

High resistance to corrosion. 304L and 316L stainlesssteels provide the best solutions for applications in extremely demanding environments.



Convenient

The desk lid and the console are equipped with pneumatic opening stays (opening to 75°) allowing complete access to the inside and preventing sudden falls of the console or the hinged cover. Equipped with adjustment rails for adjusting the depth of the mounting plate. Removable rear panel.

See page 522 for details or consult our web site www.se.com

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Human-Machine Interface

Compact control desk

- This range is available in 4 widths with fixed rear panel.
- Full accessibility is provided from the front (no central upright).
- Easy removable and reversible door opening to 120°.
- Locking by 3 mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 497).
- Desk lid equipped with a pneumatic opening stay.
- Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- Cable gland plate with 2 adjustable parts, with polyurethane gasket.
- M8 x 18 mm earthing bolt for equipotential connection between the door and the body.
- Material: Welded folded steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Thickness: 15/10e mm
- Ingress protection rating according to IEC 60529: IP55
- Mechanical protection rating according to IEC 62262: IK10



NSYSD6

Options:
It can also be equipped with a mounting plate, see page 499

For more details see page 512

Characteristics	No. doors	Width (mm)	Height (mm)	Depth (mm)	References
Compact control desk	1	600	1000	469	**NSYSD6**
Compact control desk	1	800	1000	469	**NSYSD8**
Compact control desk	2	1000	1000	469	**NSYSD10**
Compact control desk	2	1200	1000	469	**NSYSD12**

Control desk with console

- Full accessibility is provided from the front and rear.
- Easy removable and reversible front door, opening to 120°.
- Locking by two-point locks with 3 mm double bar insert.
- Desk lid equipped with a pneumatic opening stay. Opens to 75°.
- Perforated reinforcement rails with a pitch of 25 mm for quick installation of cables and cable ducts.
- Locking by two-point locks with 3 mm double bar insert.
- Hinged console cover equipped with a pneumatic opening stay.
- Opens to 75°.
- Locking by two-point locks with 3 mm double bar insert.
- Easy removable and reversible rear door, opening to 120°.
- Locking by three-point lock with flat escutcheon, 5 mm double bar insert.
- One entry cable gland plate, with polyurethane gasket.
- Control desk equipped with adjustment rails with a pitch of 25 mm
- and brackets allowing adjustment of the mounting plate depth.
- M8 x 18 mm earthing bolt for equipotential connection between the door and the body.
- Material: Welded folded steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Thickness: 15/10e mm
- Ingress protection rating according to IEC 60529: IP55
- Mechanical protection rating according to IEC 62262: IK10



NSYSDF88

Options:
Plinth options see page 495.
It can also be equipped with a mounting plate, see page 499.
Locking system: Other inserts or cylinders also available, see page 497.
The console can support the installation of a 14" screen with an optional PC support plate, see page 499.

For more details see page 512

Characteristics	No. Front doors	No. Rear doors	No. cable gland plates	Width (mm)	Height (mm)	Depth (mm)	References
Control desk with console	1	1	1	800	1400	845	**NSYSDF88**
Control desk with console	1	1	1	800	1400	1045	**NSYSDF810**
Control desk with console	2	2	1	1000	1400	845	**NSYSDF108**
Control desk with console	2	2	1	1000	1400	1045	**NSYSDF1010**
Control desk with console	2	2	1	1200	1400	845	**NSYSDF128**
Control desk with console	2	2	1	1200	1400	1045	**NSYSDF1210**
Control desk with console	2	2	2	1600	1400	845	**NSYSDF168**
Control desk with console	2	2	2	1600	1400	1045	**NSYSDF1610**

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SD Compact control desk with rear panel

- Removable rear panel. It enables the installation of two mounting plates back-to-back, allowing the installation of a large number of devices, while ensuring full accessibility from the front and the rear.
- At the top, these control desks are equipped with cable entry cut-outs, that allows the installation of one or more modular consoles.
- Easy removable and reversible door, opening to 120°.
- Locking by 3 mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 497).
- Desk lid equipped with a pneumatic opening stay.
- Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.
- Top cable entry cut-outs covered by a entire blanking cover.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- Cable gland plate with 2 adjustable parts, with polyurethane gasket.
- M8 x 18 mm earthing screw for equipotential connection between the door and the body.
- Material: Welded folded steel
- Finish: Structured finish, epoxy polyester powder paint
- Colour: RAL 7035 grey
- Thickness: 15/10e mm
- Ingress protection rating according to IEC 60529: IP55
- Mechanical protection rating according to IEC 62262: IK10

Options:
Modular consoles to be installed on top of compact control desk. See details and combinations page 491. It can also be equipped with a mounting plate, see page 499.

For more details see page 513


NSYSD6R

Characteristics	No. doors	Width (mm)	Height (mm)	Depth (mm)	References
Compact control desk with rear panel	1	600	1000	600	**NSYSD6R**
Compact control desk with rear panel	1	800	1000	600	**NSYSD8R**
Compact control desk with rear panel	2	1000	1000	600	**NSYSD10R**
Compact control desk with rear panel	2	1200	1000	600	**NSYSD12R**

SDX Compact control desk with rear panel

- Removable rear panel. It enables the installation of two mounting plates back-to-back, allowing the installation of a large number of devices, while ensuring full accessibility from the front and the rear.
- At the top, these control desks are equipped with cable entry cut-outs, that allows the installation of one or more modular consoles.
- Easy removable and reversible door, opening to 120°.
- Locking by 3 mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 497).
- Desk lid equipped with a pneumatic opening stay.
- Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.
- Top cable entry cut-outs covered by a entire blanking cover.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- Cable gland plate with 2 adjustable parts, with polyurethane gasket.
- M8 x 18 mm earthing screw for equipotential connection between the door and the body.
- Material: 304L stainless steel
- Finish: Scotch-Brite® brushed finish
- Thickness: 15/10e mm
- Ingress protection rating according to IEC 60529: IP55
- Mechanical protection rating according to IEC 62262: IK10

Options:
Stainless steel modular consoles to be installed on top of compact control desk. See details and combinations page 491. It can also be equipped with a mounting plate, see page 499.

For more details see page 513


NSYSDX6

Characteristics	No. doors	Width (mm)	Height (mm)	Depth (mm)	References
Compact control desk with rear panel	1	600	1000	500	**NSYSDX6**
Compact control desk with rear panel	1	800	1000	500	**NSYSDX8**
Compact control desk with rear panel	2	1000	1000	500	**NSYSDX10**
Compact control desk with rear panel	2	1200	1000	500	**NSYSDX12**

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Human-Machine Interface

SD Modular consoles

- Hinged modular console cover equipped with a pneumatic opening stay.
- Opens to 75°. Locking of the hinged modular console cover by two 3 mm double bar locks (other inserts or barrels also available, to be ordered separately, see page 497).
- Screw fixed rear panel equipped with step slides in the version with a depth of 300 mm.
- Material: Welded folded steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Thickness: 15/10e mm
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Options:
The link between the control desk and the modular console requires, in certain cases, the addition of one or several blanking covers (to be ordered separately).
Optional galvanised mounting plate.


NSYSDC42

Characteristics	No. of cable entry cut-outs	Width (mm)	Height (mm)	Depth (mm)	References
Modular consoles	2	400	483	200	**NSYSDC42**
Modular consoles	2	400	483	300	**NSYSDC43**
Modular consoles	3	600	483	200	**NSYSDC62**
Modular consoles	3	600	483	300	**NSYSDC63**

SDX Modular consoles

- Hinged modular console cover equipped with a pneumatic opening stay.
- Opens to 75°. Locking of the hinged modular console cover by two 3 mm double bar locks (other inserts or barrels also available, to be ordered separately, see page 497).
- Screw fixed rear panel equipped with step slides in the version with a depth of 300 mm.
- Material: 304L stainless steel
- Finish: Scotch-Brite® brushed finish
- Thickness: 15/10e mm
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Options:
The link between the control desk and the modular console requires, in certain cases, the addition of one or several blanking covers (to be ordered separately).
Optional galvanised mounting plate.


NSYSDCX42

Characteristics	No. of cable entry cut-outs	Width (mm)	Height (mm)	Depth (mm)	References
Modular consoles	2	400	483	200	**NSYSDCX42**
Modular consoles	2	400	483	300	**NSYSDCX43**
Modular consoles	3	600	483	200	**NSYSDCX62**
Modular consoles	3	600	483	300	**NSYSDCX63**

SD Blanking cover

- To conceal the free space of the control desk when the width of the console or consoles is less than the width of the control desk.
- In any case, it is necessary to previously remove the top plate delivered with the control desk.
- Material: Steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Thickness: 15/10e mm
- Fixing: Fixing by screws


NSYRP2

Characteristics	Width (mm)	Height (mm)	References
Blanking cover	200	40	**NSYRP2**

SDX Blanking cover

- To conceal the free space of the control desk when the width of the console or consoles is less than the width of the control desk.
- In any case, it is necessary to previously remove the top plate delivered with the control desk.
- Material: 304L stainless steel
- Thickness: 15/10e mm
- Fixing: Fixing by screws


NSYRPX2

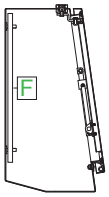
Characteristics	Width (mm)	Height (mm)	References
Blanking cover	200	40	**NSYRPX2**

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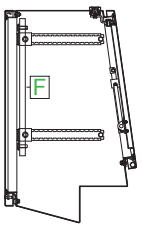
Human-Machine Interface

Mounting plates for modular consoles

- Steel mounting plates can be installed at the back of modular consoles (F).
- Material: 304L Galvanized Steel



Example installation of a mounting plate in a console depth 200 mm.

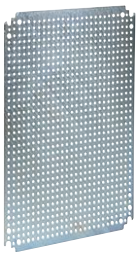


Example installation of a mounting plate in a console depth 300 mm.



NSYMM44

Characteristics	Modular console Width (mm)	Fixing centre-to-centre distance (mm) Height (mm)	Width (mm)	References
Mounting plate	400	325	325	**NSYMM44**
Mounting plate	600	625	325	**NSYMM64**



NSYMF44

Characteristics	Modular console Width (mm)	Fixing centre-to-centre distance (mm) Height (mm)	Width (mm)	References
Mounting plate Microperforated	400	325	325	**NSYMF44**
Mounting plate Microperforated	600	625	325	**NSYMF64**

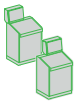


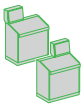
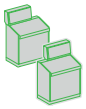
NSYMR44

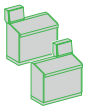
Characteristics	Modular console Width (mm)	Fixing centre-to-centre distance (mm) Height (mm)	Width (mm)	References
Mounting plate Telequick	400	325	325	**NSYMR44**
Mounting plate Telequick	600	625	325	**NSYMR64**

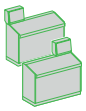
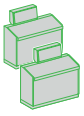
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Human-Machine Interface

Combination examples of modular consoles installation		Compact control desk		Modular console		Blanking cover	
600		Spacial SD	Spacial SDX	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX
		**NSYSD6R**	**NSYSDX6**	**NSYSDC42 / NSYSDC43**	**NSYSDCX42 / NSYSDCX43**	**NSYRP2**	**NSYRPX2**
		**NSYSD6R**	**NSYSDX6**	**NSYSDC62 / NSYSDC63**	**NSYSDCX62 / NSYSDCX63**	-	-

800		Spacial SD	Spacial SDX	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX
		**NSYSD8R**	**NSYSDX8**	**NSYSDC42 / NSYSDC43**	**NSYSDCX42 / NSYSDCX43**	2 x **NSYRP2**	2 x **NSYRPX2**
		**NSYSD8R**	**NSYSDX8**	2 x **NSYSDC42** / 2 x **NSYSDC43**	2 x **NSYSDCX42** 2 x **NSYSDCX43**	-	-
		**NSYSD8R**	**NSYSDX8**	**NSYSDC62 / NSYSDC63**	**NSYSDCX62 / NSYSDCX63**	**NSYRP2**	**NSYRPX2**

1000		Spacial SD	Spacial SDX	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX
		**NSYSD10R**	**NSYSDX10**	**NSYSDC42 / NSYSDC43**	**NSYSDCX42 / NSYSDCX43**	3 x **NSYRP2**	3 x **NSYRPX2**
		**NSYSD10R**	**NSYSDX10**	**NSYSDC62 / NSYSDC63**	**NSYSDCX62 / NSYSDCX63**	2 x **NSYRP2**	2 x **NSYRPX2**
		**NSYSD10R**	**NSYSDX10**	**NSYSDC62 / NSYSDC63**	**NSYSDCX62 / NSYSDCX63**	2 x **NSYRP2**	2 x **NSYRPX2**
		**NSYSD10R**	**NSYSDX10**	**NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63**	**NSYSDCX42 + NSYSDCX62 / NSYSDCX43 + NSYSDCX63**	-	-

1200		Spacial SD	Spacial SDX	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX
		**NSYSD12R**	**NSYSDX12**	**NSYSDC42 / NSYSDC43**	**NSYSDCX42 / NSYSDCX43**	4 x **NSYRP2**	4 x **NSYRPX2**
		**NSYSD12R**	**NSYSDX12**	**NSYSDC62 / NSYSDC63**	**NSYSDCX62 / NSYSDCX63**	3 x **NSYRP2**	3 x **NSYRPX2**
		**NSYSD12R**	**NSYSDX12**	**NSYSDC62 / NSYSDC63**	**NSYSDCX62 / NSYSDCX63**	3 x **NSYRP2**	3 x **NSYRPX2**
		**NSYSD12R**	**NSYSDX12**	2 x **NSYSDC62** / 2 x **NSYSDC63**	2 x **NSYSDCX62** / 2 x **NSYSDCX63**	-	-
		**NSYSD12R**	**NSYSDX12**	**NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63**	**NSYSDCX42 + NSYSDCX62 / NSYSDCX43 + NSYSDCX63**	**NSYRP2**	**NSYRPX2**

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Human-Machine Interface

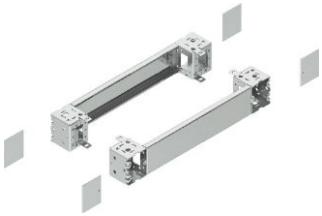
Floor

SD SDX

For more information, see page 86.



Front and rear plinth



Characteristics	NSYSPF6100	NSYSPFX6100
	• The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	
Material	Folded sheet steel, corner with a thickness of 25/10e mm	304L stainless steel
Finish	Painted with epoxy polyester resin	-
Colour	RAL 7022 grey	-
Ingress protection rating	IP30	IP30
Mechanical protection rating	IK10	IK10
Supply	• Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements • Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements • The use of 304L stainless steel plinths on an SD control desk requires an earthing cable reference **NSYEL226D13** (description page 295) to be ordered separatly.	

Control desk references	Plinths references			
Compact control desks with fixed rear panel	100 mm	200 mm	100 mm	200 mm
References	References	References	References	References
NSYSD6	**NSYSPF6100**	**NSYSPF6200**	**NSYSPFX6100**	**NSYSPFX6200**
NSYSD8	**NSYSPF8100**	**NSYSPF8200**	**NSYSPFX8100**	**NSYSPFX8200**
NSYSD10	**NSYSPF10100**	**NSYSPF10200**	**NSYSPFX10100**	**NSYSPFX10200**
NSYSD12	**NSYSPF12100**	**NSYSPF12200**	**NSYSPFX12100**	**NSYSPFX12200**

Compact control desks with removable rear panel Sheet steel	100 mm	200 mm	100 mm	200 mm
References	References	References	References	References
NSYSD6R	**NSYSPF6100**	**NSYSPF6200**	**NSYSPFX6100**	**NSYSPFX6200**
NSYSD8R	**NSYSPF8100**	**NSYSPF8200**	**NSYSPFX8100**	**NSYSPFX8200**
NSYSD10R	**NSYSPF10100**	**NSYSPF10200**	**NSYSPFX10100**	**NSYSPFX10200**
NSYSD12R	**NSYSPF12100**	**NSYSPF12200**	**NSYSPFX12100**	**NSYSPFX12200**

Compact control desks with removable rear panel Stainless steel	100 mm	200 mm	100 mm	200 mm
References	References	References	References	References
NSYSDX6	-	-	**NSYSPFX6100**	**NSYSPFX6200**
NSYSDX8	-	-	**NSYSPFX8100**	**NSYSPFX8200**
NSYSDX10	-	-	**NSYSPFX10100**	**NSYSPFX10200**
NSYSDX12	-	-	**NSYSPFX12100**	**NSYSPFX12200**

Control desk with console	100 mm	200 mm	100 mm	200 mm
References	References	References	References	References
NSYSDF88	**NSYSPF8100**	**NSYSPF8200**	-	-
NSYSDF108	**NSYSPF10100**	**NSYSPF10200**	-	-
NSYSDF128	**NSYSPF12100**	**NSYSPF12200**	-	-
NSYSDF168	**NSYSPF16100**	**NSYSPF16200**	-	-
NSYSDF810	**NSYSPF8100**	**NSYSPF8200**	-	-
NSYSDF1010	**NSYSPF10100**	**NSYSPF10200**	-	-
NSYSDF1210	**NSYSPF12100**	**NSYSPF12200**	-	-
NSYSDF1610	**NSYSPF16100**	**NSYSPF16200**	-	-

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Plinth side panels



	NSYSPS4100SD	NSYSPSX5100
	• They are fixed to the corner of the plinth by 2 fixing screws.	
	Folded sheet steel	304L stainless steel
	Painted with epoxy polyester resin	-
	RAL 7022 grey	-
	IP30	IP30
	IK10	IK10

- Height 100 mm: 2 side panels, 4 corner covers and fixing elements
- Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements
- The use of 304L stainless steel plinths on an SD control desk requires an earthing cable reference **NSYEL226D13** (description **page 295**) to be ordered separately.

	100 mm References	200 mm References	100 mm References	200 mm References
	NSYSPS4100SD	**NSYSPS4200SD**	**NSYSPSX5100**	**NSYSPSX5200**
	NSYSPS4100SD	**NSYSPS4200SD**	**NSYSPSX5100**	**NSYSPSX5200**
	NSYSPS4100SD	**NSYSPS4200SD**	**NSYSPSX5100**	**NSYSPSX5200**
	NSYSPS4100SD	**NSYSPS4200SD**	**NSYSPSX5100**	**NSYSPSX5200**

	100 mm References	200 mm References	100 mm References	200 mm References
	NSYSPS5100SD	**NSYSPS5200SD**	**NSYSPSX5100**	**NSYSPSX5200**
	NSYSPS5100SD	**NSYSPS5200SD**	**NSYSPSX5100**	**NSYSPSX5200**
	NSYSPS5100SD	**NSYSPS5200SD**	**NSYSPSX5100**	**NSYSPSX5200**
	NSYSPS5100SD	**NSYSPS5200SD**	**NSYSPSX5100**	**NSYSPSX5200**

	100 mm References	200 mm References	100 mm References	200 mm References
	-	-	**NSYSPSX5100**	**NSYSPSX5200**
	-	-	**NSYSPSX5100**	**NSYSPSX5200**
	-	-	**NSYSPSX5100**	**NSYSPSX5200**
	-	-	**NSYSPSX5100**	**NSYSPSX5200**

	100 mm References	200 mm References	100 mm References	200 mm References
	NSYSPS4100SD	**NSYSPS4200SD**	-	-
	NSYSPS4100SD	**NSYSPS4200SD**	-	-
	NSYSPS4100SD	**NSYSPS4200SD**	-	-
	NSYSPS4100SD	**NSYSPS4200SD**	-	-
	NSYSPS6100SD	**NSYSPS6200SD**	-	-
	NSYSPS6100SD	**NSYSPS6200SD**	-	-
	NSYSPS6100SD	**NSYSPS6200SD**	-	-
	NSYSPS6100SD	**NSYSPS6200SD**	-	-

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Door

Pneumatic opening stay

- Holds the desk lid in open position at an angle of 75°.



Nominal load per stay (N)	Max. load on lid (kg)	Control desk references				Standard supply stay
		With fixed rear panel References	With removable rear panel Sheet steel References	With removable rear panel Stainless steel References	With console References	References
244	13	NSYSD6	NSYSD6R	NSYSDX6	NSYSDF88	NSYPLS24
244	13	NSYSD8	NSYSD8R	NSYSDX8	NSYSDF810	NSYPLS24
300	11	-	-	-	NSYSDF168	NSYPLS30
300	11	-	-	-	NSYSDF1610	NSYPLS30
300	15	NSYSD12	NSYSD12R	NSYSDX12	NSYSDF128	NSYPLS30
300	15	-	-	-	NSYSDF1210	NSYPLS30
300	17	NSYSD10	NSYSD10R	NSYSDX10	NSYSDF108	NSYPLS30
300	17	-	-	-	NSYSDF1010	NSYPLS30

Pneumatic opening stay

Supply:
delivered with fixings

- Holds the desk lid in open position at an angle of 75°.


NSYPLS24

Characteristics	Nominal load per stay (N)	Max. load on lid (kg)	References
Pneumatic opening stay	244	13	**NSYPLS24**
Pneumatic opening stay	300	17	**NSYPLS30**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Shape inserts

Possibility to replace the standard shape insert:
- 8 mm triangular insert,
- 8 mm male square insert,
- 7 mm male square insert.
- Material: Zamack


NSYTT8CRN

Characteristics	References
8 mm triangular insert	**NSYTT8CRN**
8 mm male square insert	**NSYTC8CRN**
7 mm male square insert	**NSYTC7CRN**

Escutcheon with key lock


NSYML405SD

- Insert breakage torque: 15 daN.
- Material: Polyamide PA 6 material charged with 30 % fibreglass
- Colour: RAL 7011 grey
- Mechanical protection rating according to IEC 62262: IK10
- Fire resistance: 650°C

Characteristics	References
405E key	**NSYML405SD**

Pivoting handle

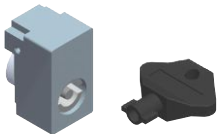
- To be installed on the rear door of Control desk with console, replacing the flat escutcheon supplied as standard.
- Ergonomic locking system with pivoting handle (delivered without insert).
- Broad range of inserts for covering the greatest variety of needs (shape inserts, DIN cylinders, KABA, ASSA).
- Changing the opening direction to right / left thanks to the symmetric design of the lock unit (no linkages to be removed).
- Lock unit supported by 2 screws.
- Material: PA 6 charged with 30 % fibreglass
- Colour: RAL 7011 grey
- Mechanical protection rating according to IEC 62262: IK10
- Fire resistance: 650°C


NSYSDH

Characteristics	References
Without insert	**NSYSDH**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Shape inserts


NSYINS61

Characteristics	References
6 mm square insert	**NSYINS61**
Female 6 mm square insert	**NSYINS6G1**
7 mm square insert	**NSYINS71**
8 mm square insert	**NSYINS81**
Female 8 mm square insert	**NSYINS8G1**
6.5 mm triangular insert	**NSYINT61**
7 mm triangular insert	**NSYINT71**
8 mm triangular insert	**NSYINT81**
9 mm triangular insert	**NSYINT91**
10 mm triangular insert	**NSYINT101**
10 mm keyless hexagonal insert	**NSYINH31**
3 mm double bar insert	**NSYINDB31**
5 mm double bar insert	**NSYINDB51**
Daimler Benz insert	**NSYINBENZ1**
Fiat insert	**NSYINFIAT1**
Keyless USA slot insert	**NSYINUSA1**
Crown insert	**NSYINCW1**

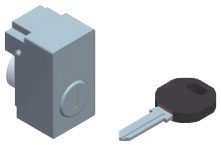
Push button



NSYINPULSD

Characteristics	References
Push button	**NSYINPULSD**

Cylindrical barrels

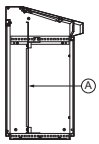

NSYIN405E1

Characteristics	References
405E key lock	**NSYIN405E1**
421E key lock	**NSYIN421E1**
455 key lock	**NSYIN4551**
1242E key lock	**NSYIN1242E1**
1332E key lock	**NSYIN1332E1**
2124E key lock	**NSYIN2124E1**
2131A key lock	**NSYIN2131A1**
2132A key lock	**NSYIN2132A1**
2331A key lock	**NSYIN2331A1**
2433A key lock	**NSYIN2433A1**
2452E key lock	**NSYIN2452E1**
3113A key lock	**NSYIN3113A1**
3122E key lock	**NSYIN3122E1**
3123A key lock	**NSYIN3123A1**
3131A1 key lock	**NSYIN3131A1**
3133A key lock	**NSYIN3133A1**
3422E key lock	**NSYIN3422E1**
3432E key lock	**NSYIN3432E1**
6101 key lock	**NSYIN6101**
EDF1300 key lock	**NSYINF1301**
EDF1400 key lock	**NSYINF1401**
Michelin 8079 keyless lock	**NSYINICHEL8791**
Michelin 8133 keyless lock	**NSYINICHEL8131**
Michelin 8376 keyless lock	**NSYINICHEL8371**
E1 keyless lock	**NSYINE11**

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Human-Machine Interface

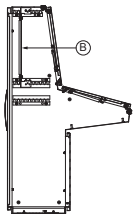
Compact control desks




NSYPMP8560

Characteristics	Width (mm)	Surface (dm²)	References
Mounting plate plain	600	42	**NSYPMP8560**
Mounting plate plain	800	59	**NSYPMP8580**
Mounting plate plain	1000	76	**NSYPMP85100**
Mounting plate plain	1200	93	**NSYPMP85120**

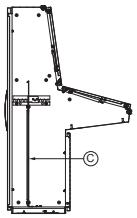
Control desk with console




NSYPMP4580

Characteristics	Width (mm)	Surface (dm²)	References
Mounting plate plain	800	31	**NSYPMP4580**
Mounting plate plain	1000	40	**NSYPMP45100**
Mounting plate plain	1200	77	**NSYPMP45120**
Mounting plate plain	1600	67	**NSYPMP45160**

Control desk with console




NSYPMP8580

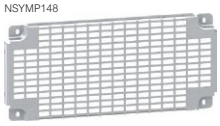
Characteristics	Width (mm)	Surface (dm²)	References
Mounting plate plain	800	49	**NSYPMP8580**
Mounting plate plain	1000	63	**NSYPMP85100**
Mounting plate plain	1200	77	**NSYPMP85120**
Mounting plate plain	1600	105	**NSYPMP85160**

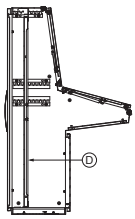
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Human-Machine Interface

Compact control desks


NSYMP148

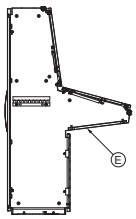

NSYSTMP6080



Characteristics	Width (mm)	Surface (dm²)	References
Mounting plate plain	800	90	**NSYMP148**
Mounting plate plain	1000	116	**NSYMP1410**
Mounting plate plain	1200	142	**NSYMP1412**
Mounting plate Telequick (2 items needed)	800	84	**NSYSTMP6080**
Mounting plate Telequick (2 items needed)	1000	108	**NSYSTMP60100**
Mounting plate Telequick (2 items needed)	1200	132	**NSYSTMP60120**

Compact control desks


NSYSPMP4080



Characteristics	Width (mm)	Surface (dm²)	References
Mounting plate plain	800	28	**NSYSPMP4080**
Mounting plate plain	1000	36	**NSYSPMP40100**
Mounting plate plain	1200	44	**NSYSPMP40120**
Mounting plate plain	1600	60	**NSYSPMP40160**

Fixing brackets

- Set of 4 fixing brackets.
- Depth adjustment on 25 mm pitch.
- Included as standard with desk (all versions).
- To be ordered separately when required for installation of two back to back mounting plates in control desks with rear access.
- Material: Galvanised steel
- Thickness: 40/10^{e} mm
- Maximum load: 250 kg


NSYMPBSD

Characteristics	For desk width (mm)	References
Fixing brackets	600	**NSYMPBSD**
Fixing brackets	800	**NSYMPBSD**
Fixing brackets	1000	**NSYMPBSD**
Fixing brackets	1200	**NSYMPBSD**
Fixing brackets	1600	**NSYMPBSD**

Adjustment rails and fixing brackets

- Set of 4 rails and 4 fixing brackets.
- To install a plain mounting plate or a Telequick mounting plate, either at the top or across the height of the monobloc control desk with console.
- For positioning 2 plates (back to back), order fixing brackets ref. **NSYMPBSD**.


NSYMPB4SD

Characteristics	For control desks with console Depth (mm)	References
Adjustment rails and fixing brackets	400	**NSYMPB4SD**
Adjustment rails and fixing brackets	600	**NSYMPB6SD**

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Technical uprights

- Set of 2 equipment uprights.
- Support for fixing Telequick mounting plates and rails.
- Material: Zinc-coated
- Thickness: 20/10e mm


NSYTVR8

Characteristics	For control desk height (mm)	Centre-to-centre distance (mm)	References
Technical uprights	1000	650	**NSYTVR8**
Technical uprights	1400	1250	**NSYTVR14**

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Human-Machine Interface

The **Spacial SF** PC rack is designed to protect and control computer equipment in an industrial environments.

This range can be configured according to your needs

4 differents services available:

Assemble to order

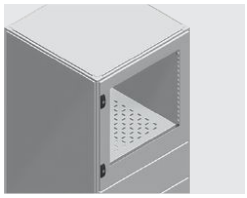
Mounting of standard accessories

Painting

Machining

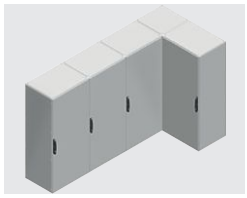


Steel PC racks



Convenience

- Anti-glare glazed door designed for viewing until 25.5" screens.
- Cable entry made easier by a cable-land plate in 2 pieces.



Simple

The Spacial SF design allows enclosures to be coupled in any direction, adapting to all installation surfaces.



Ergonomics

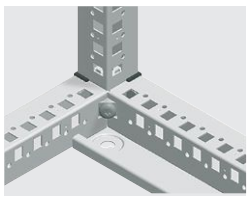
- Access to the various functions and working heights, guaranteeing optimum comfort.
- Partial doors delimit the access to each function with a 3 mm double bar lock.
- Built-in screen and CPU support.
- Built-in keyboard and mouse support.



Detail of 5 mm DB lock on rear door.

Locking system

- Locking system with flat escutcheon, made from polyamide 6 with 30 % fibreglass, RAL 9005 black, with 5 mm double bar insert for the plain rear door, and small flat escutcheon with 3 mm double bar insert for the partial front doors.



Robust

- Spacial SF structure formed from a single 1.5 mm galvanised steel section, with a high moment of inertia.
- Vertical uprights joined with top and bottom frames, screwed together with connections of sintered steel.
- Panels built into the structure.

See page 522 for details or consult our web site www.se.com

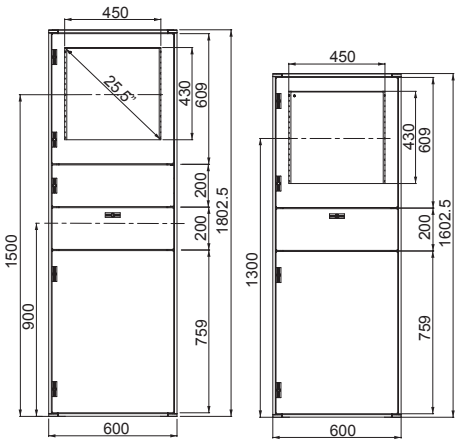
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Spacial SF PC rack



NSYSF16660PC

- Partial door for PC screen, with Securit® anti-glare glass.
- Plain partial door for CPU (enclosures with height of 1800 mm).
- Hinged plain door for keyboard.
- Plain partial door for optional installation of A4 printer support.
- Partial front doors opening to the right.
- Plain rear door, reversible opening direction (right or left).
- Roof and side panels fixed from the inside.
- Cable gland plate with 1 entry.
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating according to IEC 60529: IP40
- Mechanical protection rating according to IEC 62262: IK10
- Certifications: UL 508A Types 1, 12 and CUL



For more details see page 513

Characteristics	No. of compartments	Height (mm)	Width (mm)	Depth (mm)	References
Spacial SF PC rack	3	1600	600	600	**NSYSF16660PC**
Spacial SF PC rack	3	1600	600	800	**NSYSF16680PC**
Spacial SF PC rack	4	1800	600	600	**NSYSF18660PC**
Spacial SF PC rack	4	1800	600	800	**NSYSF18680PC**

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Human-Machine Interface

Front and rear plinths


NSYSPF6100


NSYSPF6200

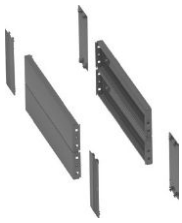
- The front and rear of the plinth consists of 4 corners with 2 or 4 panels.
- Material: Folded sheet steel, corner with a thickness of 25/10e mm
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7022 grey
- Ingress protection rating: IP30 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements
Height 200 mm: 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements

Characteristics	Height (mm)	Width (mm)	References
Front plinths for Spacial	100	600	**NSYSPF6100**
Front plinths for Spacial	200	600	**NSYSPF6200**

Plinth side panels


NSYSPS6100

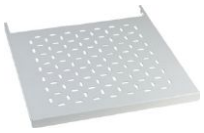

NSYSPS6200

- They are fixed to the corner of the plinth by 2 fixing screws.
- Material: Folded sheet steel
- Finish: Structured finish, epoxy polyester powder
- Colour: RAL 7022 grey
- Ingress protection rating: IP30 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
Height 100 mm: 2 side panels, 4 corner covers and fixing elements
Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements

Characteristics	Height (mm)	Depth (mm)	References
Side plinths for Spacial	100	600	**NSYSPS6100**
Side plinths for Spacial	100	800	**NSYSPS8100**
Side plinths for Spacial	200	600	**NSYSPS6200**
Side plinths for Spacial	200	800	**NSYSPS8200**

Fixed Trays

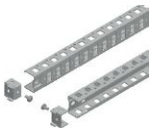

NSYFXT6060

- Optional installation of a supplement fixed or telescopic tray directly on structure or on cross rails.
- Acceptable load: 150 kg for fixed trays and 50 kg for telescopic rails, both evenly distributed.
- Installation: On structure / On cross rails

For more details and other options on Mounting: See page 249.

Characteristics	Width (mm)	Depth (mm)	References
Fixed Tray	600	600	**NSYFXT6060**

Universal cross rail 40 mm (1 row)


NSYSUCR4060

Characteristics	Enclosure Depth (mm)	References
Universal cross rail 40 mm (1 row)	600	**NSYSUCR4060**
Universal cross rail 40 mm (1 row)	800	**NSYSUCR4080**

Telescopic rails


NSYTTG60

Characteristics	Enclosure Depth (mm)	References
Telescopic rails	600	**NSYTTG60**
Telescopic rails	800	**NSYTTG60**

Handle for telescopic trays


NSY1TH

- Handle designed for easy extraction of the sliding trays.
- Material: Polyamide 6 (black)

Supply:
2 units and fixing elements

Characteristics	References
Handle for telescopic trays	**NSY1TH**

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Life Is On Schneider Electric

Locks for partial doors

Locks to replace the 3 mm double bar lock supplied with the partial doors.

Models:

- Transformation of lock with shape inserts, triangular 6.5 mm and square 6 mm.
- Lock with 2233X key for partial doors.
- Lock with 2233X key, exclusive for hinged keyboard door.

Supply:
Lock with shape inserts, triangular 6.5 mm and square 6 mm: Metal body, shape insert and safety washer.
Lock with 2233X key for partial doors: metal body, insert, bolt, safety washer and key.
Lock with 2233X key, exclusive for hinged keyboard door: Metal body, insert, special bolt, safety washer and key.


NSYMLT6

Characteristics	References
With 6.5 mm triangular insert for partial and hinged door	**NSYMLT6**
With 6 mm square insert for partial and hinged door	**NSYMLS6**
With 2233X key for partial door	**NSYML23**
With 2233X key for hinged keyboard door	**NSYMLCD23**

11

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Human-Machine Interface

The stainless steel monobloc PC racks have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid.

This range can be configured according to your needs

4 differents services available:

Assemble to order

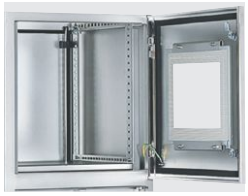
Mounting of standard accessories

Painting

Machining



Stainless steel monobloc PC racks



Convenience

- Anti-glare glazed door designed for viewing 14" and 17" screens by removing part of the silkscreen printing.
- Cable entry made easier by a cable gland plate (at the rear) in 2 pieces.



Ergonomic

- Partial doors delimit the access to each function with a 3 mm double bar lock.
- Access to the various functions and working heights, guaranteeing optimum comfort.
- Built-in screen and CPU support.
- Built-in mouse support.



Sealing

- IP55, even with the keyboard drawer open, thanks to the pivoting Plexiglas shutter.



Hygiene

- The high quality of the standard finish enables very easy maintenance while avoiding contamination.
- The hygienic feet made from 316L stainless steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures, ref. NSYPHX200. More information on page 143.



Optional accessories

- Shelf mounted on telescopic rails.



Resistance to corrosion

- High resistance to corrosion. 304L and 316L stainlesssteels provide the best solutions for applications in extremely demanding environments.

See page 522 for details or consult our web site www.se.com

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304L stainless steel PC racks

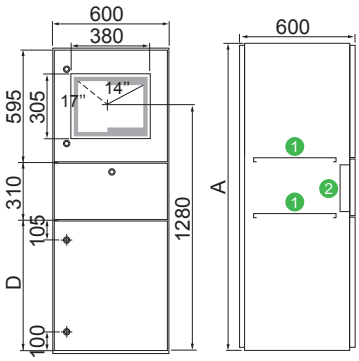

NSYSMX16660PC

Composition
- Top and bottom partial doors on the front side.
- Pivoting panel for the keyboard.
- Plain rear door.

Monitor-screen compartment
- The anti-glare glazed door is designed for viewing screens:
- 14" as standard, vv 17" by removing a part of the silkscreen printing.
- The height of the monitor support can be adjusted.
- The monitor shelf can withstand a maximum weight of 50 kg.

CPU / keyboard compartment
- The keyboard fixed to the inside becomes operational by tilting the central panel.
- The CPU is placed on a height-adjustable shelf, visible and accessible through a pivoting, transparent shutter.

Optional accessories
- Hygienic feet H 200 mm: **NSYPHX200**.
- Shelf installed on a sliding rail, with adjustable height.
- Telescopic tray: **NSYTTG60**.
- Material: Monobloc structure in 304L stainless steel sheet, micro-beaded finish. Can be made in 316L stainless steel on request
- Ingress protection rating according to IEC 60529: IP55, even with the keyboard drawer open
- Mechanical protection rating according to IEC 62262: IK10



A: 1600 / 1800
B: 690 / 890
1 Screwed shelf, adjustable height.
2 Sealed case for keyboard.

Characteristics	Height (mm)	Width (mm)	Depth (mm)	References
304L stainless steel PC racks	1600	600	600	**NSYSMX16660PC**
304L stainless steel PC racks	1800	600	600	**NSYSMX18660PC**

Plinth

- Material: Stainless steel, AISI 304L
- Finish: Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion
- Installation: It is necessary to order separately the plinth fixing kit (ref. **NSYAPFXWM**) composed by fixing elements and drilling jig

Front and rear plinths


NSYSPFX6100

Supply:
4 corners, 2 panels (front and rear), 4 corner covers and fixing elements

Characteristics	Height (mm)	Width (mm)	References
Front and rear plinths	100	600	**NSYSPFX6100**

Side plinths


NSYSPSX6100

Supply:
2 side panels, 4 corner covers and fixing elements

Characteristics	Height (mm)	Depth	References
Side plinths	100	600	**NSYSPSX6100**

Front and rear plinths


NSYSPFX6200

Supply:
4 corners, 2 panels (front and rear), 4 corner covers and fixing elements

Characteristics	Height (mm)	Width (mm)	References
Front and rear plinths	200	600	**NSYSPFX6200**

Side plinths

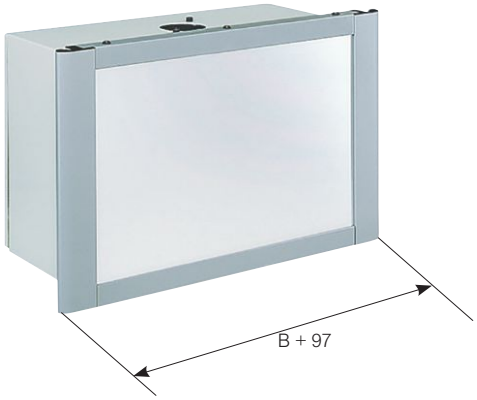

NSYSPSX6200

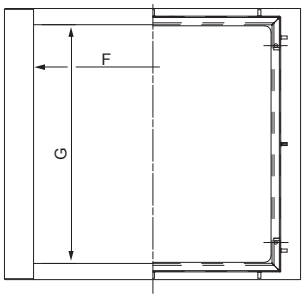
Supply:
2 side panels, 4 corner covers and fixing elements

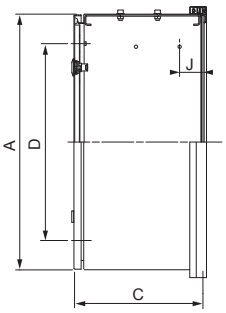
Characteristics	Height (mm)	Depth	References
Side plinths	200	600	**NSYSPSX6200**

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HMI encl. Spacial S3CM

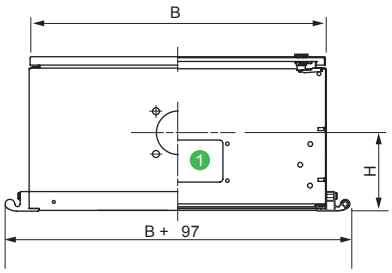






A: Height.
B: Width.
C: Depth.

W600 enclosure + box-keyboard installation



1 Cable gland plate.

Figure 1
Enclosure depth from 200 to 250

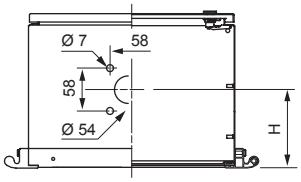
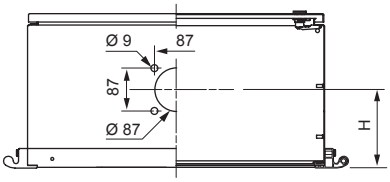


Figure 2
Enclosure depth 300



Enclosure dimensions (mm)								Cable gland plate	Ø Top hole (mm)	Fig.	Enclosure References
Height (mm)	Width (mm)	Depth (mm)	D	F	G	H	J				
300	300	200	162	262	262	100	45	-	54	1	**NSYS3CM303020**
300	400	200	162	362	262	100	45	-	54	1	**NSYS3CM304020**
400	400	200	262	362	362	100	45	-	54	1	**NSYS3CM404020**
400	600	250	262	562	362	125	75	●	54	1	**NSYS3CM406025***
500	500	250	362	462	462	125	75	-	54	1	**NSYS3CM505025**
600	600	200	462	562	562	100	45	●	54	1	**NSYS3CM606020***
600	800	300	462	762	562	150	100	-	87	2	**NSYS3CM608030**
800	600	300	662	562	762	150	100	●	87	2	**NSYS3CM806030***

* Enclosure equipped with a cable gland plate.



Perforated rails installed on lateral studs.



Detail of the reinforcement plate.



Rear door with double bar lock.

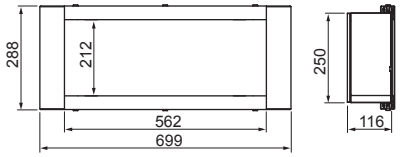


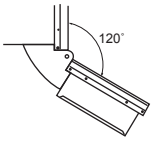
Fixing of the trim frame by screws.

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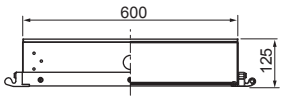
Human-Machine Interface

Box-keyboard for control enclosure





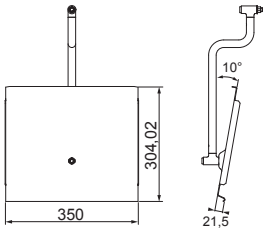
Detail from the installation of the box-keyboard on the control enclosure.



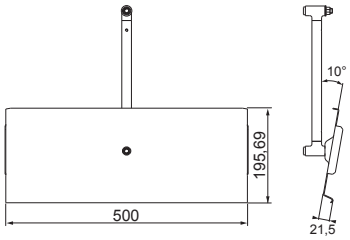
Support



Laptop computer



Keyboard



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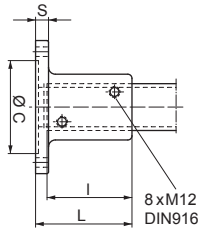
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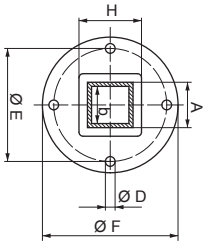
Human-Machine Interface

Suspension system

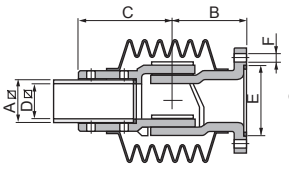
Dimensions (mm) Ø A	50 mm square	80 mm square	50 mm square	80 mm square	50 mm square	80 mm square	50 mm square	80 mm square
B	42	72	92	115	50	74	42	72
C	105	134	118	160	68	98	236	320
D	11	11	42	72	42	72	67	94
E	125	173	85	130	30	45	148	190
F	152	201	11	11	96	144	-	-
G	-	-	148	190	96	141.5	-	-
H	72	111	80	115	134	195.5	-	-
I	97	126	130	175	140	210	-	-
J	-	-	55	90	120	180	-	-
K	-	-	68	103	9	13	-	-
L	110	140	105	150	55	84	-	-
S	15	16	-	-	-	-	-	-

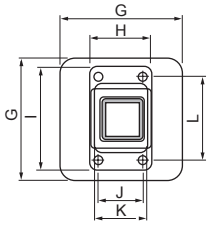
Fixed base



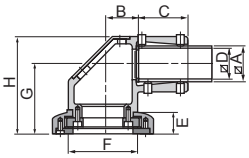


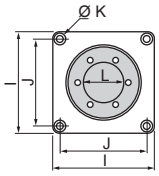
Wall fixing with joint



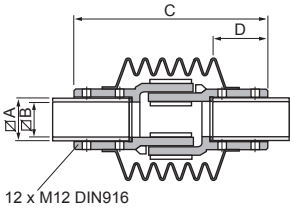


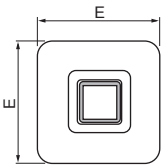
Rotating straight fitting





Horizontal inter-tube joint





11

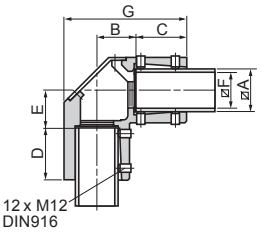
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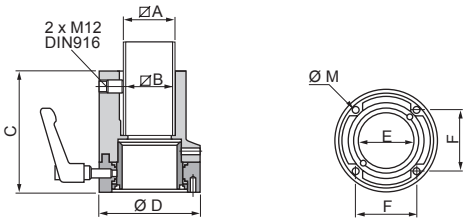
Suspension system

Dimensions (mm) Ø A	50 mm square	80 mm square	50 mm square	80 mm square	50 mm square	80 mm square	50 mm square	80 mm square
B	46	56	42	72	46	56	55	55
C	60	83	115	145	60	83	100	100
D	60	83	96	139	147	190	44	44
E	46	56	52.3	85	96	139	121	121
F	42	70	58	87	42	72	182	182
G	144	193	-	-	154	208.5	50	50
H	-	-	-	-	42	70	100	100
I	-	-	-	-	58	87	50	50
M	-	-	M6	M8	M6	M8	-	-

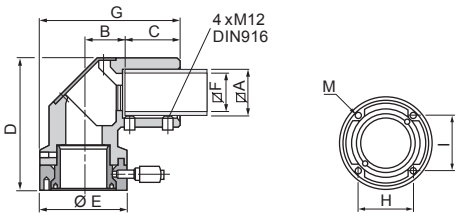
Fixed bracket



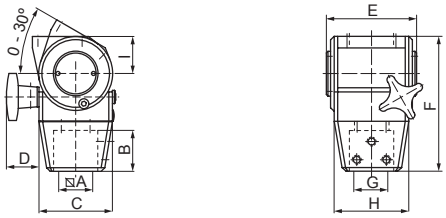
Rotating fixing on enclosure



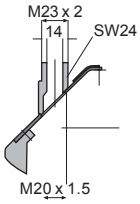
Rotating fixing in bracket on enclosure



Tilting fixing on enclosure



Adapter for signalling beacon



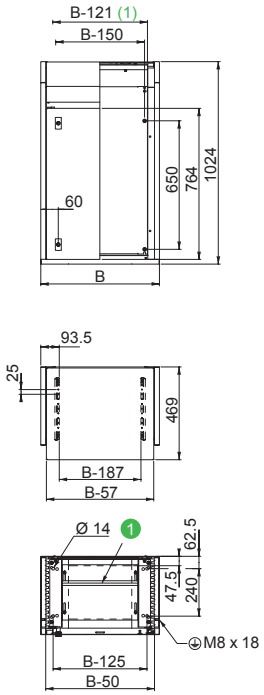
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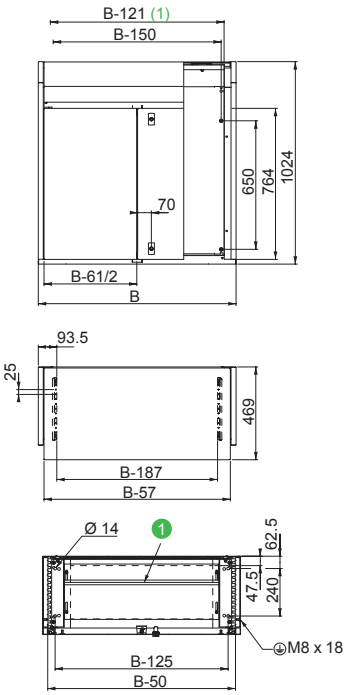
Human-Machine Interface

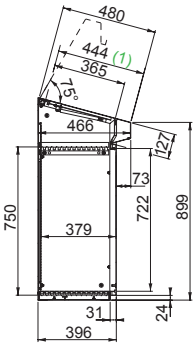
Compact control desk

1 door



2 doors



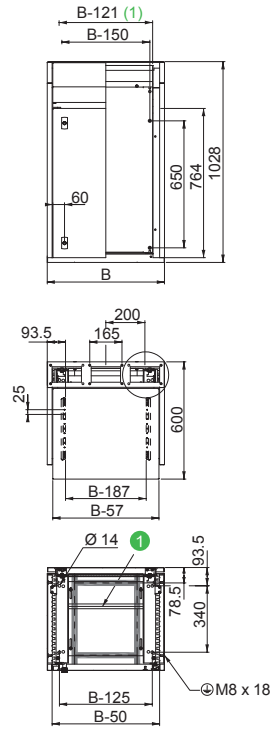


Cable gland plate clearance dimensions (mm)	
Width	Maximum opening.
B-280	56

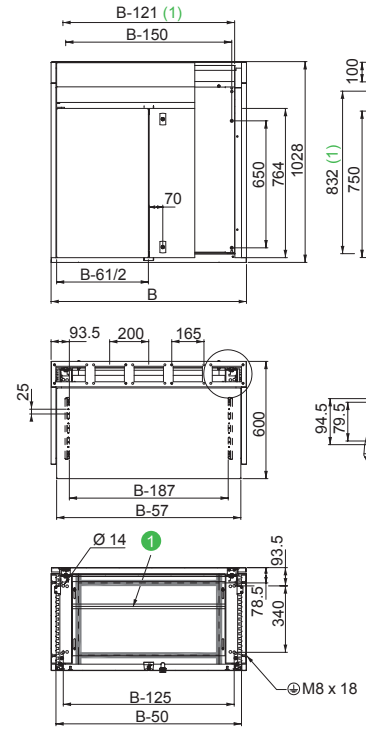
Common side view.
(1) Useful clearance.

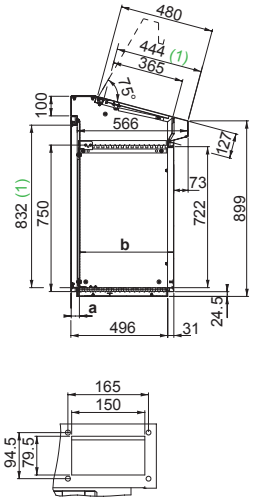
Compact control desks with rear panel

1 door



2 doors





Cable gland plate clearance dimensions (mm)	
Width	Maximum opening.
B-280	56

Adjustment of the depth of the mounting plate (mm)		
Depth	Min.	Max.
a	42	392
b	129	479

Common side view.
(1) Useful clearance.

11

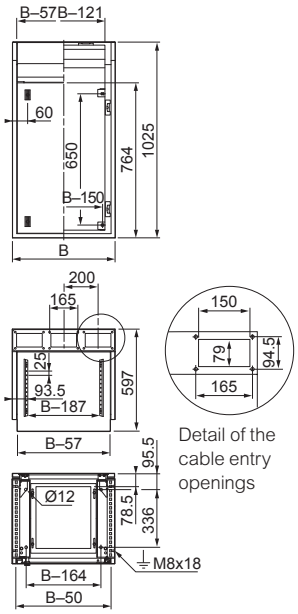
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Human-Machine Interface

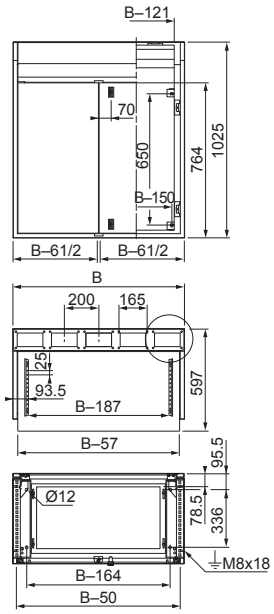
SDX Compact control desks with rear panel

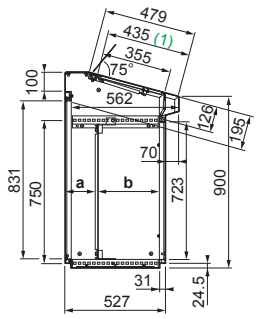
1 door



Detail of the cable entry openings

2 doors





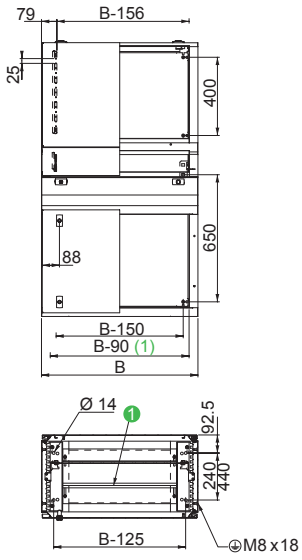
Cable gland plate clearance dimensions (mm)	
Width	Maximum opening.
B-280	370

Adjustment of the depth of the mounting plate (mm)		
Depth	Min.	Max.
a	45	395
b	126	476

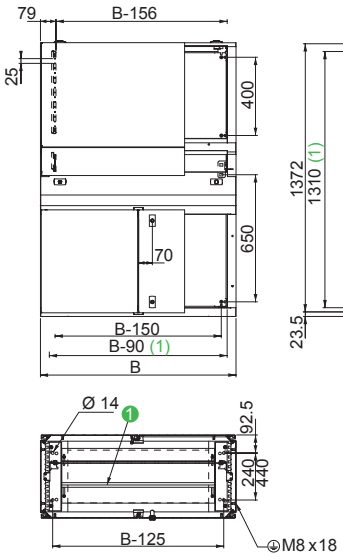
Common side view.
(1) Useful clearance.

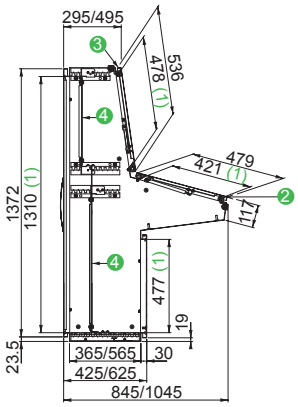
SD Control desk with console

1 door



2 doors



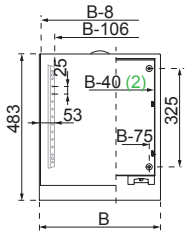


Cable gland plate clearance dimensions (mm)	
Width	Maximum opening.
B-280	56

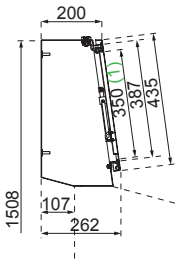
Notes	
1	1 entry cable gland plate
2	Maximum opening of the hinged desk lid: 75°
3	Maximum opening of the hinged console cover: 75°
4	Optional mounting plate installation, see page 499

Common side view.
(1) Useful clearance.

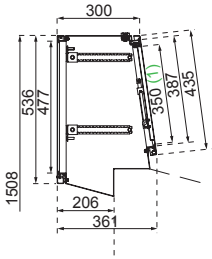
SD SDX Modular console



Depth 200 mm



Depth 300 mm



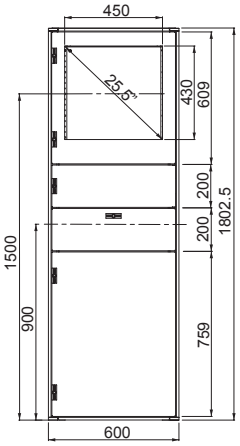
(1) Useful clearance.
(2) Same dimensions for the rear panel.

11

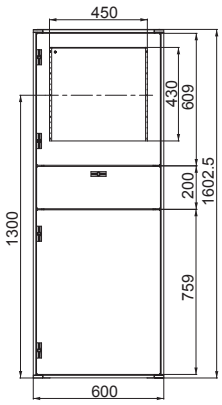
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Human-Machine Interface

Spacial SF PC rack

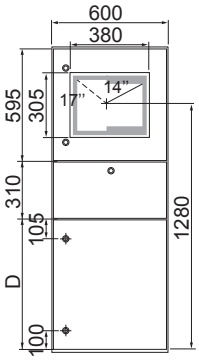


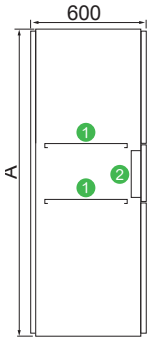
PC rack with a height of 1800 mm.



PC rack with a height of 1600 mm.

304L stainless steel PC racks





(1) Screwed shelf, adjustable height.
(2) Sealed case for keyboard.

A	D
1600	690
1800	890

11

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Variable speed drive flush-mounting kits

The variable speed drive flushmounting kits have been designed to isolate the power part, which is an important source of heat. They are mounted in the Spacial range of steel enclosures (floor-standing and wall-mounting enclosures) and have been approved for Altivar Process variable speed drives in the ATV630 and ATV930 ranges (power range: 0.75 to 45 kW at 200/240 V, 0.75 to 90 kW at 380/480 V).

The kits are available in five sizes and offer two methods of mounting variable speed drives:
- slide-rail mounting for sizes 1, 2 and 3
- bracket mounting for sizes 4 and 5.

The kits can be installed:
- at the back of the enclosure.
This installation provides full thermal insulation

- inside the enclosure on a mounting plate.
This installation may require the addition of a thermal control.







Tightness

- IP55 according to IEC 60529 with polyurethane seal provided.

Configured offer

Services

Possibility of cut-outs (enclosure and frame) by Schneider Electric: No risk of corrosion and cuts (cut-out made before painting).



Ease of installation

- Set of slide-rails allowing the variable speed drive to be mounted quickly and efficiently.



Strength

- The rigidity of the kit allows it to be installed on Spacial S3D, SF and SM enclosures.

Earth continuity

- Earth continuity is ensured by tightening the M6 nuts associated with pin washers.



Maintenance of the variable speed drive fan (kit sizes 4 and 5)

- Easy front panel maintenance for fan servicing.

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Variable speed drive flush-mounting kits

Note:
Dimensions, see page 519



Sizes 1, 2 and 3



Sizes 4 and 5

Characteristics	Mounting kits	
	Variable speed drive installation kits allowing the hot part to be isolated.	
Material	Steel	
Finish	Structured finish, epoxy polyester powder	
Colour	RAL 7035 grey	
Ingress protection rating according to IEC 60529	IP55	
Certifications	UL 508A types 1, 3R and 12	
Supply	**Sizes 1, 2 and 3:** • Painted steel plate with cut-out fitted with two slide-rails + adhesive seal + 7 to 9 M6 studs for kit mounting • Protection seal profile supplied for frame cut-out • Enclosure drilling template	**Sizes 4 and 5:** • Painted steel plates with cut-out fitted with painted mounting brackets + screws and nuts for fixing the brackets and the kit • Protection seal supplied for frame cut-out

Dimensions (mm)			Sizes	Compatibilities						
					Variable speed drives					Kits
					ATV340 380/480 V	ATV630 200/240 V	380/480 V	ATV930 200/240 V	380/480 V	
H	L	P		Enclosures	References	References	References	References	References	References
360	235	22	1	S3D, SF, SM	-	**ATV630U07M3**	**ATV630U07N4**	**ATV930U07M3**	**ATV930U07N4**	**NSYPTDS1**
360	235	22	1	S3D, SF, SM	-	**ATV630U15M3**	**ATV630U15N4**	**ATV930U15M3**	**ATV930U15N4**	-
360	235	22	1	S3D, SF, SM	-	**ATV630U22M3**	**ATV630U22N4**	**ATV930U22M3**	**ATV930U22N4**	-
360	235	22	1	S3D, SF, SM	-	**ATV630U30M3**	**ATV630U30N4**	**ATV930U30M3**	**ATV930U30N4**	-
360	235	22	1	S3D, SF, SM	-	**ATV630U40M3**	**ATV630U40N4**	**ATV930U40M3**	**ATV930U40N4**	-
360	235	22	1	S3D, SF, SM	-	-	**ATV630U55N4**	-	**ATV930U55N4**	-
420	265	22	2	S3D, SF, SM	-	**ATV630U55M3**	**ATV630U75N4**	**ATV930U55M3**	**ATV930U75N4**	**NSYPTDS2**
420	265	22	2	S3D, SF, SM	-		**ATV630D11N4**	-	**ATV930D11N4**	-
555	295	22	3	S3D, SF, SM	-	**ATV630U75M3**	**ATV630D15N4**	**ATV930U75M3**	**ATV930D15N4**	**NSYPTDS3**
555	295	22	3	S3D, SF, SM	-	**ATV630D11M3**	**ATV630D18N4**	**ATV930D11M3**	**ATV930D18N4**	-
555	295	22	3	S3D, SF, SM	-	-	**ATV630D22N4**	-	**ATV930D22N4**	-
800	385	151.5	4	SF, SM	**ATV340D30N4E**	**ATV630D15M3**	**ATV630D30N4**	**ATV930D15M3**	**ATV930D30N4**	**NSYPTDS4**
800	385	151.5	4	SF, SM	**ATV340D37N4E**	**ATV630D18M3**	**ATV630D37N4**	**ATV930D18M3**	**ATV930D37N4**	-
800	385	151.5	4	SF, SM	-	**ATV630D22M3**	**ATV630D45N4**	**ATV930D22M3**	**ATV930D45N4**	-
975	427	205.5	5	SF, SM	**ATV340D45N4E**	**ATV630D30M3**	**ATV630D55N4**	**ATV930D30M3**	**ATV930D55N4**	**NSYPTDS5**
975	427	205.5	5	SF, SM	**ATV340D55N4E**	**ATV630D37M3**	**ATV630D75N4**	**ATV930D37M3**	**ATV930D75N4**	-
975	427	205.5	5	SF, SM	**ATV340D75N4E**	**ATV630D45M3**	**ATV630D90N4**	**ATV930D45M3**	**ATV930D90N4**	-

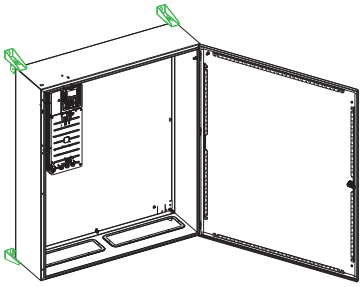
Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

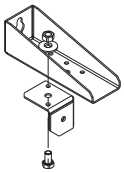
Variable speed drive flush-mounting kits

Wall-mounting enclosure fixing lug



NSYAEFPFPTD





- Material: Painted steel
- Colour: RAL 7035 grey
- Maximum load: 105 kg

Supply:
Set of 4 lugs and brackets + fasteners

Characteristics	Variable speed drive flush-mounting kits	References
Spacial - kit of fixing brackets for WM enclosures with flush mounting drive	NSYPTDS1, NSYPTDS2, NSYPTDS3	**NSYAEFPFPTD**

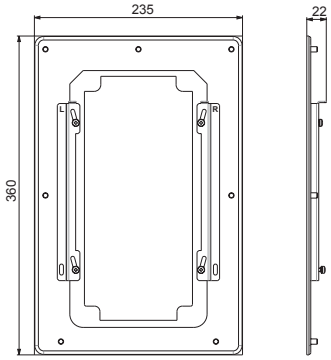
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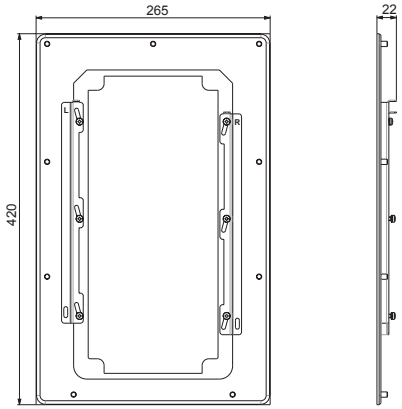
Variable speed drive flush-mounting kits

Spacial S3D, SF and SM dimensions

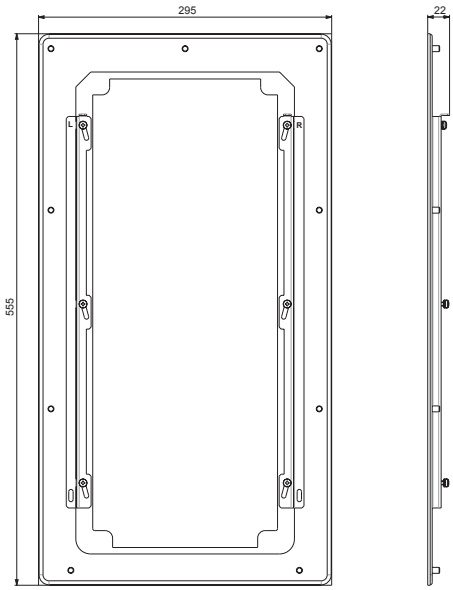
NSYPTDS1



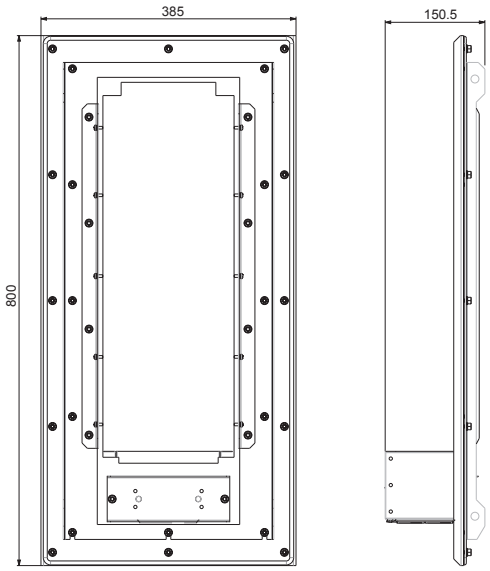
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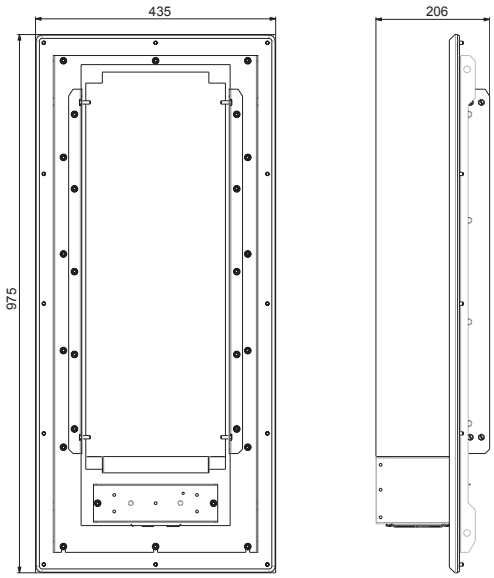
NSYPTDS3



NSYPTDS4



NSYPTDS5



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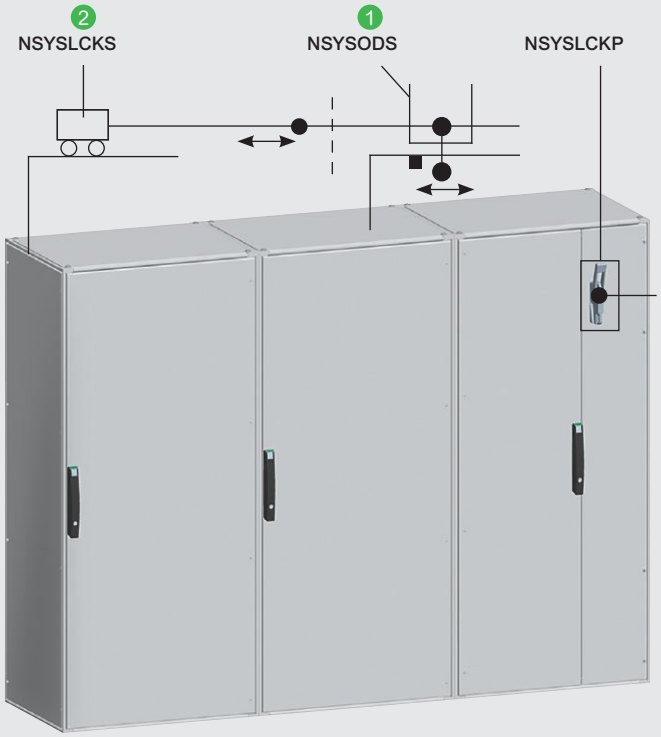
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Automobile application

The door of the "incoming" enclosure is interlocked by the control of the main switch or circuit breaker. A built-in interlocking system with runner rods prevents the opening of the "outgoing" enclosure doors. Access is only allowed when the main switch or circuit breaker is in "O" position and the main door is open. Manual activation of the rods unlocks the other doors and allows access.

Designed to be associated with certain circuit breakers or switches:
– Square D (9422 A1).
– Schneider Electric.

The system is limited for configurations up to 4 columns.



1 Activation for secondary doors.
2 Interlocking for secondary doors.



Secure

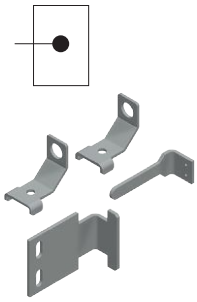
- The built-in secure interlocking system for the door (on demand) of the "incoming"/"outgoing" enclosures allows Spacial SF enclosures to be adapted to the requirements of the American car industry.

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Life Is On Schneider Electric

Automobile application

Interlocking for main door


NSYSLCKP

System for unlocking the main door adapted to the switches:
- Allen Bradley (1494 VH11).
- Square D (9422 A1).
- Siemens (FH0H).
- Schneider Electric.

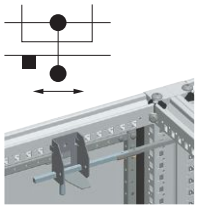
Unlocks the main door when the switch is in the open position "O".
The main door interlocking system requires the ordering of both references:
1 Activation for secondary doors.
2 Interlocking for secondary doors.
- Material: Steel
- Finish: Zinc-coated

Note:
The fixed panel in this example must be ordered through our customised service.

Supply:
2 brackets for fixing the configured panel, interlocking elements, switch and fixings. Configured panel and switch not included.

Characteristics	References
Interlocking for main door	**NSYSLCKP**

Activation for secondary doors

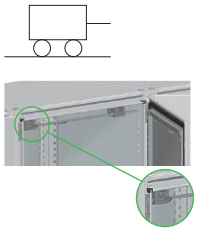

NSYSODS

- System installed in the main enclosure.
- Activated by manual operation, preventing the opening of the secondary enclosures connected to one another by runner rods.
- It has a secure function which consists of a part that forces the system into the position in which the secondary enclosures are locked in order to lock the main door.
- Material: Mechanism: Zinc-coated steel, Activation handle: Black plastic

Supply:
Elements for activating the main door and fixings.
For the complete function, both activation
1 and interlocking systems
2 need to be ordered.

Characteristics	References
Activation for secondary doors	**NSYSODS**

Interlocking for secondary doors


NSYSLCKS6

- System for interlocking the outgoing enclosures connected to one another by runner rods that lock their doors.
- Material: Steel
- Finish: Zinc-coated
- Fixing: Fixing to the structure of the enclosures by screws

Supply:
Elements for interlocking the secondary doors and fixings.
For the complete function, both activation
1 and interlocking systems
2 need to be ordered according to the enclosure Larg..

Characteristics	Width (mm)	References
Interlocking for secondary doors	**600**	**NSYSLCKS6**
Interlocking for secondary doors	**800**	**NSYSLCKS8**
Interlocking for secondary doors	**1000**	**NSYSLCKS10**

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The customised solutions

Introduction



Standard enclosure
+
Standard accessories
+
Services
=
Configured solution

Configured:

The configured offer is a standard offer enriched by 4 services

The customized solutions either Configured or Specific, uses existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications to be done upon enclosures and/or accessories, they could affect the certification/declarations of conformity existing in the standard ranges. Additional certifications and declarations of conformity for customized solutions, must be defined under request prior as part of offering specification stage.

Assemble to order

- Change the configuration composition (panels, doors…)
- Merge and assemble several enclosures (applicable to for Spacial SF and Thalassa PLA)

+ Enclosure composition 100 % according to customer needs
+ Easy process to assemble cubicels and associate them.

Machining

- Cut outs made before painting to ensure optimum corrosion withstand.
- Almost any shape of cut-outs are possible on the enclosure body, door, gland plate or mounting plate.
- Enclosure delivered ready to install

Painting

- Enclosure painting color selection (choice of 12 RAL colours)
- Choice of different coatings to be adapted to the need (e.g.: Zing)

+ Epoxy powder polyester painting ensures the best protection
+ Totally customized

Mounting of standard accessories

- Factory mounting of most of the accessories, such as mounting plates, plinth, canopy..etc)

+ Enclosure ready to be equipped

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The customised solutions

Spacial.conf configuration tool

Spacial.conf is the configuration tool to be used to place your order. It gives you several benefits:

Consistency and error free
- Built-in accessories compatibility matrix
- Up-to-date list price in every country (where deployed)
- One configurator for configurable offers
- Compatibility between enclosure and accessories

Autonomy and facility
- Online configurator, easy handling and immediate usage.
- Illustrated products help you in your choice
- FAQ information for faster understanding

Information back-up
- Links to dxf drawing download
- Links to data sheet
- Configurations can be saved and shared thanks to a unique smart code.

Your order in 5 steps with Spacial.conf:

1 - Select country and language
- 12 countries deployed
- 5 languages available English, French, Spanish, German, Russian.
- Global international version available.



2 - Select enclosure
- Select product range
- Select material
- Select enclosure type

3 - Select accessories
- Composition accessories
- Mounting accessories
- Thermal accessories

4 - Select services
- Mounting
- Machining
- Painting
- Assembly

5 - Validation and send offer
- Order summary
- Send order to get quotation confirmation from local sales representative

Have a smartphone or a tablet? Scan this

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The customised solutions

Introduction





20 experts

specialized on different materials and different products

Engineered to order. (ETO)

The engineered to order offer allows you to have a tailor-made product

ETO main characteristics

Solutions with:

- Cut out, special colors, specific dimensions, welding, special adaptation…,
- Packaging and delivery can also be adapted to the project,
- Technical, quantities limitations and lead time are defined case by case by P&S quotation team, complexity.
- Co-engineer your solution with our design and engineering team (20 experts entirely dedicated to your specific needs).

Examples of Specific solution



- Special dimension
- Cut-outs on the body and the doors



- Cable entry and door adaptation
- Special door shape

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The customised solutions

What to take into account

This page will help you define your needs for enclosure and streamline your design process.

Step 1

Environment in which you'll install the enclosure(s)

- Installation indoor or outdoor?
- installation outdoor undershelter?
- Clean or not clean environement?
- IP required?
- IK required?

Step 2

Application(s) needs of your enclosure(s)

- Certification nedeed? UL? ATEX?
- Declaration of conformity?, NEMA?, Marine?, Seismic?, other...

Step 3

Enclosure(s) description

- Wall mounted or floor standing?
- Type of enclosure's installation?
- Total weight of equipments in the enclosure?
- Design: Color / coating / finish / dimension?
- Body components' adaptations: Cable entry / mounting plate?
- Thermal management adaptations?
- Other accessories adaptations?
- Additional information: Labeling / packaging / logistic?

Step 4

Business profile

- Total quantity of enclosures needed and quantity per batch?
- Frequency of your order: Single order / repeat order?
- Delivery time and method demand?
- Stock needs?
- Other comments?

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Thermal management system



Thermal management system ClimaSys

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Thermal management system

Thermal problems in enclosures



Evolution of the electrical switchboard

An electrical switchboard is an assembly formed of the following components:

- The enclosure;
- Switchgear and controlgear;
- Electrical conductors; And
- Miscellaneous functions (indications, controls, information processing).

It has evolved in three directions:

- Enclosures increasingly made of insulating materials;
- Switchgear and controlgear incorporating more and more electronics which concentrates a growing number of functions in an increasingly small volume;
- An increasingly high filling rate.

Industrial safety studies, a concept which covers:

- The safety of personnel and equipment;
- The availability of electric power;

show that this is one of the critical points of all industrial and service-sector activities. Its operation must therefore be perfectly under control; And this control must concern not only the operation of its components but also their operating conditions in a given environment.

Temperature and humidity in the enclosure

Analysis of the malfunctions and stoppages of an electrical installation shows that they are mostly of thermal origin: Temperature too high or too low inside the enclosure.

The rise in the average temperature, which may exceed the limits tolerated by the equipment, can be explained by the changes in electrical switchboards:

- Use of insulating materials for the enclosure, which limits heat removal;
- Widespread adoption of electronics and a higher filling rate increase the temperature.

This overheating may concern only certain areas: Hot spots.

The excessively low temperature is due to installation of the electrical switchboard in a very cold environment. It can cause the formation of condensation, a phenomenon which is harmful for the equipment.

Consequences

The presence of humidity or an excessively high temperature inside the enclosure can cause numerous malfunctions:

- Nuisance tripping of protective devices;
- Fire inside the enclosure;
- Burns for the users;
- Premature equipment ageing;

The consequence of these malfunctions is an increase in the installation's operating costs:

- Maintenance costs,
- Costs entailed by stoppage of the installation.

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Life Is On Schneider Electric

Thermal management system

Solution: Thermal management

Objective

The thermal management solution adopted shall:

- Maintain the temperature and the humidity level inside the enclosure at values corresponding to normal operation of the equipment.
- Establish a uniform temperature to help prevent hot spots.

Choice of solution

The products constituting the thermal management solution are chosen by producing the thermal balance of the installation. This comprises 2 parts:

- Thermal balance inside the enclosure;
- Evaluation of the climatic conditions (temperature, humidity level) or environmental conditions (pollution) of the place in which the electrical switchboard is located.

The Schneider Electric solutions

With the ClimaSys range Schneider Electric proposes a comprehensive offer meeting all needs:

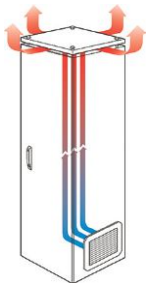
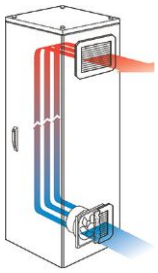
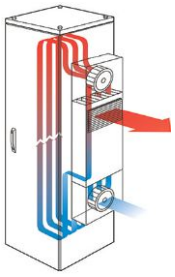
- Airing
- Cooling
- Heating
- Regulating
- Homogenizing (air circulation)

Schneider Electric also proposes a thermal design software program, ProClima, which produces the thermal balance and proposes one or more thermal management solutions.

Characteristics	Smart Climasys	Climasys			
Cooling^	New  Smart ventilation systems	 Forced ventilation systems	 Air-air exchangers	 Air-water exchangers	 Cooling units
Heating		 Resistance heaters			
Controlling	New  Smart thermal control accessories	 Thermal control accessories			
Thermal Data	 Diagnostic tools	 Effi clima software		 Proclima software	

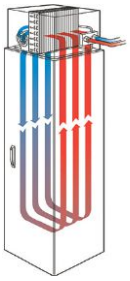
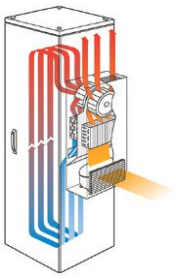
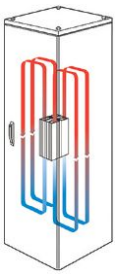
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Thermal management system

				
	Homogenize	**Cool**	**Cool**	**Cool**
Solution	Air circulation	Natural ventilation	Forced ventilation	Air-air exchanger
Description	Stirring fan inside the enclosure	Air circulation achieved by installing grids (side or roof-mounted) with or without filter, or by elevating the roof.	A fan (with or without filter) sucks fresh air from outside to inside the enclosure, thereby creating a slight overpressure which causes removal of the hot air through an outlet grid. The air circulation homogenizes the temperature and the over-pressure helps prevent dust from entering. Side or roof mounting. Can be combined with a thermostat.	Cooling system provided with an aluminum exchange coil to separate the internal and external air circuits, two centrifugal fans to blow in the air circuits, and a thermostat to regulate the temperature in the enclosure. Side or roof mounting.
Use	Help prevent hot spots	Low power to be dissipated. Dusty environment	High power to be dissipated. Dusty and non-hazardous environment. Help prevent hot spots.	Medium power to be dissipated. Corrosive environment (food processing industry). Relatively cold environment (about 25°C).
Temperature conditions Ta = ambient temperature (outside the enclosure) Td = desired temperature inside the enclosure	None	Td > Ta + 5°C	Td > Ta + 5°C 3°C < Ta ≤ 35°C	Td > Ta + 10°C
Independent internal and external air circuits?	No	No	No	Yes
Advantages	• Uniform temperature inside the enclosure	• Very economical solution • No maintenance • Easy, fast installation.	• Economical solution • Easy maintenance • Easy, fast installation • Uniform temperature inside the enclosure • Guaranteed level of protection: IP55 (IP54 for roof models).	• Easy maintenance (no filter) • Far lower maintenance frequency than for fans • IP55 guaranteed.
Disadvantages		• Low power dissipated • Reduction in the degree of protection IP • Risk of ingress of particles and dust if no filter.	• Internal temperature always higher than the external temperature • Maintenance required: Change of filters.	• Internal temperature always higher than the external temperature.
Illustration		 Outlet grids	 Fans	 Air-air exchangers

12
CV

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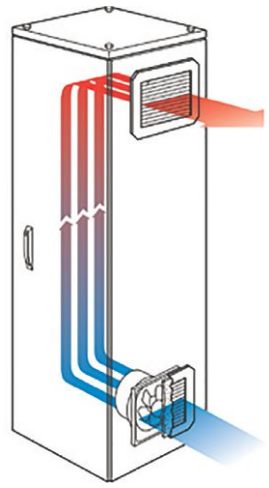
		
Cool	**Cool**	**Heat**
Air-water exchanger	Cooling unit	Heating resistor
Cooling system provided with an exchange coil supplied with cold water and separated from the internal air circuit, a centrifugal fan for the air circuit, and a thermostat to regulate the temperature in the enclosure. Side mounting.	Operates like a heat pump: A condenser removes to the ambient air the calories absorbed by an evaporator. The air inside the enclosure is thus cooled and dried. Side, floor, roof and floor-standing mounting.	The heating resistors Help prevent the formation of condensation and help ensure an ideal temperature inside the enclosure.
Large quantity of heat to be removed. Difficult environments (cement plant, production lines, greasy workshops, etc.) or humid environments (sewage plant, bottling factory, etc.). Do not discharge calories into the environment.	Highly polluted environment but which permits the use of a filter for external protection of the cooling unit.	To heat the inside of the enclosure and help prevent condensation.
Ta > Td	Ta > Td and Ta ≤ 55°C	Ta < Td
Yes	Yes	-
• Internal temperature independent of the external temperature • Security system against any leaks • Calories dissipated outside • Guaranteed level of protection: IP55.	• Internal temperature independent of the external temperature • Uniform temperature inside the enclosure. • Guaranteed level of protection: IP54 for roof and big cooling models, IP55 for side models and the SLIM range • Use of an ecological gas. • Installation of a system from removal of condensation water from the evaporator	• Small size (1.6 mm thick for the ultra-thin version) • Low surface temperature (< 70°C for insulated version, 75°C for aluminum version) • Uniform temperature inside the enclosure with the version equipped with a fan.
• There must be a cold water circuit of stable temperature and flow rate • Installation of special piping.	• Water condensation evaporation unit integrated in side mounting models from 0.6 kW to 4 kW • Maintenance required: Change of filters.	
		
Air-water exchangers	Cooling units	Heating resistors

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Thermal management system

Large range of fans:
flow rate efficiency, high protection rating, quick installation and easier maintenance to secure all the applications.

Ventilation Systems





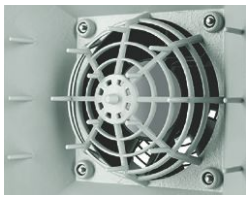


Easy maintenance
Quick filter replacement
- Quick, easy and safe replacement of the filter installed in the fan, even during operation.

Certifications
- UL



Quality of the components
Selection of the motors
- Improved flow rate and longer service life.
- Large range of input voltages available on all the motors delivered as standard, with alternating 50/60 Hz or direct current.



Optimised flow rate: average increase of 50 %
- Maximum use of surface.
- Minimum loss of pressure.



Easy installation
Quick installation
- Safe, reliable fixing with the assisted fixing device and the system of multi-thickness fixing-clips.
- Easy to invert.
- To operate as extractors, all the motors can be inverted by simply removing four screws.

Innovation



New



Smart ventilation systems
The smartest way to keep critical equipment cool
- Intelligent filter.
- Adaptable to any new or existing enclosures.

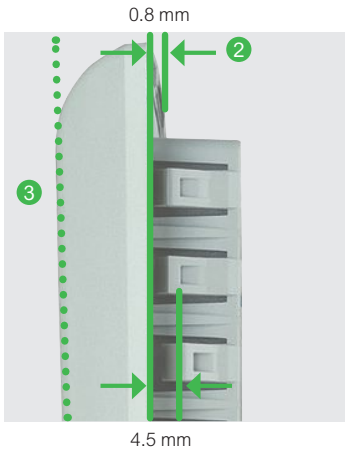
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High protection rating: IP54 as standard



1 Fixing guide

- To centre the body of the fan on the wall of enclosure.
- To correct machining faults.
- To facilitate the correct operation of the fixing "clips".

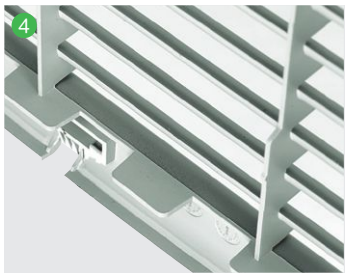


2 Multi-thickness fixing-clips

- To help guarantee easy and reliable fixing of the ventilation system.
- With a thickness of 0.8 to 4.5 mm, with no fixings.

3 Inclined profile of the grille

- To help protect the filter against vertical spraying: each slat is protected by the slat above it, the external dimensions remain small.



4 IP54-55

- A patented system allows the evacuation of water absorbed by the filter,
- in particular during high-pressure spraying.



6 Hot-fitted sealing gasket

- The polyurethane gasket, hot cast, helps guarantee a long-lasting seal.



6 Effective system for retaining the filter

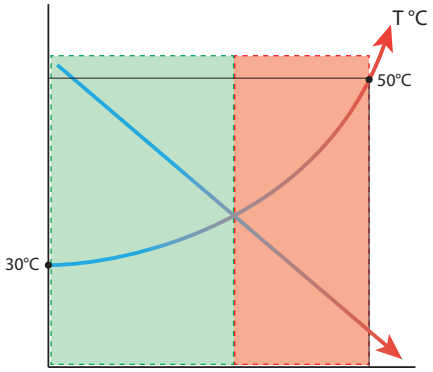
- The system for holding the synthetic filter in the cavity of the filter holder helps guarantee a protection rating of IP54, in the most difficult conditions.

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ClimaSys Smart Ventilation System

Innovation Problems generated by dirty filters

60% of installations face quality issues caused by dirty filters





Efficient Inefficient



Lifespan reduces

Equipment

> Product malfunction or breakdown of the panel

- Overheating issues
- Conductivity issues due to dust
- Damage to internal moving parts

> Reduced lifespan of installed equipment

> Low energy efficiency of the panel

- Overconsumption of the fan

> Safety issues

- Risk of fi re/burning

All these issues are due to the presence of dust and/or ventilation malfunction; They can be avoided with the use of a smart ventilation system.

HEALTH OF EQUIPMENT = FILTER'S DUST LEVEL

The concept of the ClimaSys Smart Ventilation System (CSVS)

The ClimaSys Smart Ventilation System is a smart, closely integrated network that makes your life easier.



90% savings on filter maintenance

> Use corrective and predictive maintenance of the ventilation system to:

- Improve CAPEX and OPEX of the installation
- Improve maintenance and operation of the installation
- Improve peace of mind

Improve maintenance cost for new and already existing installations.

> Functions of the CSVS systems:

Detect general poor health of the enclosure by monitoring:
- Input/output temperature

Detect fan issues by monitoring:
- Air flow temperature
- Current level, consumed energy
- Blade speed measurement
- Used and remaining (approximate) lifespan

Detect grid fi lter issues:
- Air flow temperature
- Dust level (0% clean – 100% dirty)
- Number of replacements
- Remaining time before next replacement

12 CV

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Thermal management system

Innovation

The technical solution

2 sensors…



Dust Sensor
(patented)
NSYCCAFSDUST

Composed of an optical sensor which detects the filter dirt level + temperature sensor



Fan Sensor
NSYCCARPM

Composed of:
RPM sensor to control fan rotation and transported air temperature Toroidal sensor to measure fan consumption



… connected to a controller which relays information and alarms

Filterstat™ Controller ClimaSys CC DG **NSYCCOFST•••V**

Information displayed on Filterstat's controller screen

- **Detect general poor health of enclosure by monitoring:**
  - Input/output temperature
- **Detect fan issues by monitoring:**
  - Air flow temperature
  - Current level, consumed energy
  - Blade speed measurement
  - Used and remaining (approximate) lifespan
- **Detect grid filter issues:**
  - Air flow temperature
  - Dust level (0% clean – 100% dirty)
  - Number of replacements
  - Remaining time before next replacement

The alarms
The system offers different types of alarms for notification when something is not right:
Alarms
Dust filter alarm: Filter capacity is below from a user-defined level. 0%-60% (Green LED Colour), 60%-80% (Orange LED Colour), >80% (Flashing Red LED Colour)
No electricity supply to fan: Fan is running (there is an rpm reading but the current sensor shows a 0 mA reading).
Fan rpm slow: Fan speed is below a user-predefined level.
Fan flaps blocked: Consumption in a fan is detected but the rpm speed is zero.
Over-temperature alarm on airflow: Fan exceeds a user-defined threshold.
Over-temperature or down-temperature alarm: On inlet or outlet air from grids.
Fan lifespan over: The fan lifetime has almost expired and should be replaced (front LEDs light up purple).
Δt deviation: Δt deviation is greater that a user-predefined threshold.
Remote sensor not connected/broken: A device in the network is disconnected.

Thermal network architecture



> The greenfield solution for new installations

We offer a range of digital devices that can be connected together and optionally also to a remote supervisor.
See page 536

> The brownfield kit for retrofit installations

It is easy to upgrade an existing installation to a digital one.
See page 537

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Thermal management system

Innovation Build your greenfield solution for a new installation

The nucleus of the system is the ClimaSys Filterstat™ controller that collects information from filter and fan sensors across all of your enclosures.



Easy product selection
with the Proclima selection tool



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Select your Smart Fan

1



See details page 540

Select your Smart Grid

2



See details page 539

New ClimaSys Smart Grids Offer

Complete Smart Grid that includes:
- a Dust Sensor
- a Smart Filter G2,
  G3 smart filter to be order separately (see page 539).

Grid cut-out (mm²)	References
92x92	**NSYCAG92DG**
125x125	**NSYCAG125DG**
223x223	**NSYCAG223DG**
291x291	**NSYCAG291DG**

Select your controller and potential thermal hubs to digitalize more than 1 enclosure

3



See details page 542

Filterstat Controllers (4 ports) and thermal hubs (8 ports)

- Trim frame IP55 for installing the Filterstat Controller and thermal
- Hub on enclosure doors, side panels etc.

Voltage (V)	References
30 V AC/DC	**NSYCCOFST30V**
90-250 V AC	**NSYCCOFST90250V**
30 V AC/DC	**NSYCCOFSEM8U1**
90-250 V AC	**NSYCCOFSEM8U2**

Modular frame IP55

Material and colour	References
same as controller	**NSYCCOFR55**

Select your communication cables

4



See details page 543

Filterstat communication cable

Black unshielded cable with 2 connectors on each side.
Material: PVC.

Length (mm)	References
500	**NSYCCA50MFST**
1000	**NSYCCA100MFST**
1500	**NSYCCA150MFST**
2000	**NSYCCA200MFST**
3000	**NSYCCA300MFST**
4000	**NSYCCA400MFST**
5000	**NSYCCA500MFST**

⚠ Control devices (thermostat, hygrostat, hygrotherm) must be ordered separately.

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Thermal management system

Innovation Select your brownfield kit for an existing installation

To digitalize an existing installation, order the appropriate brownfield kit:



Suitable for existing enclosures with fan at the bottom and grid at the top (lateral or door)

Brownfield kits

- 2 units external covers grey smokey grids
- 2 units smart filters (2 Filter Mat G2 + 2 dust sensors)
- 1 unit Filterstat Controller (90-250 V, 50 Hz-60 Hz)
- 3 cables
- 1 rpm + toroidal sensor
- Other equipment: 10 stickers and retainer flaps mini-tool kit

Dimensions Grid cut-out size (mm)	Cable size (m)	References
92 x 92	0.5	**NSYCCFSBRKIT92**
125 x 125	1	**NSYCCFSBRKIT125**
223 x 223	1.5	**NSYCCFSBRKIT223**
291 x 291	2	**NSYCCFSBRKIT291**

12
CV

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... or select brownfield components separately:

	External Smart Grids	External smokey grids	Smart filters		
					
	External grids equipped with G2 filter and Dust Sensor to be installed in an existing grid support.	External grids to be installed in an existing grid support or used as spare part. Smart filter and Dust sensor to be ordered separately.	Set of 5 Smart filters for replacement on Smart Fans and Smart Grids. See details page 544.		
Dimensions Grid cut-out size (mm)	References	References	Filter type		References
92 x 92	**NSYCAG92DGC**	**NSYCAG92BPC**	M1	G2	**NSYCAF92DG**
125 x 125	**NSYCAG125DGC**	**NSYCAG125BPC**	M1	G2	**NSYCAF125DG**
125 x 125	**NSYCAG125DGC**	**NSYCAG125BPC**	M1	G3	**NSYCAF125G3DG**
223 x 223	**NSYCAG223DGC**	**NSYCAG291BPC**	M1	G2	**NSYCAF223DG**
223 x 223	**NSYCAG223DGC**	**NSYCAG291BPC**	M1	G3	**NSYCAF223G3DG**
291 x 291	**NSYCAG291DGC**	**NSYCAG223BPC**	M1	G2	**NSYCAF291DG**
291 x 291	**NSYCAG291DGC**	**NSYCAG223BPC**	M1	G3	**NSYCAF291G3DG**

	Dust Sensor	10 stickers and retainer flaps mini-tool kit	Fan Sensor
			
	Individual Dust Sensor ready to be implemented on any existing ClimaSys CV fan or ClimaSys CA grids in the brownfield installation or used as spare part.	Tool kit for digitalizing fans in brownfield installations without opening fan motor rear grids.	Individual Fan Sensor ready to be implemented on any existing fan in the brownfield installation or used as spare part.
References	**NSYCCAFSDUST**	**NSYCCABLK**	**NSYCCARPM**

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Thermal management system

- Characteristics: The Smart fans are equipped with an axial motor, a protective housing on the front, rear surfaces, and a Smart filter with Dust sensor and a Fan sensor with infrared technology. The external smokey grid displays the status of the ventilation functions through the LED colours of the Dust sensor. This Smart filter can be replaced for maintenance during operation without risk of contact with the rotating element.
- Material of external grids: Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0.
- Colour of external grids: Smokey black RAL 9005
- Conditions of use: The external temperature must not exceed 30°C and must be more than 5°C lower than the temperature required in the enclosure. The Smart filters that equip the Smart fans must be replaced when the alarm is triggered Filterstat controller (see more details page 535)
  Storage Temperature: -40…+ 70°C
- Ingress protection rating (according to IEC 60529): IP54
- Mechanical protection rating (according to IEC 62262): IK08
- Installation: The cut-out template supplied with the device avoids the need for marking and helps protect the surface of the enclosure during handling.
- Options: For maintenance replacement of Smart filters please see spare parts references, page 539

Free flow rate with standard filter (m³/h)	Flow rate with outlet grille(s) (m³/h)		Voltage range (nominal voltage)	Absorbed power (max. intensity)	Noise level	External dimensions (cut-out)	Weight	Operating temperature	Max. static pressure
	1	2							
34 (50 Hz) 35 (60 Hz)	21 (50 Hz) 22 (60 Hz)	29 (50 Hz)	150 V...250 V (230 V)	4.5/4.8 W (0.16/0.17 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70°C	29 Pa
34 (50 Hz) 35 (60 Hz)	23 (50 Hz) 24 (60 Hz)	35 (50 Hz)	75 V...125 V (115 V)	3.3/3.5 W (0.16/0.16 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70°C	29 Pa
74 (50 Hz) 87 (60 Hz)	52 (50 Hz) 61 (60 Hz)	60 (50 Hz)	175 V...253 V (230 V)	17/15 W (0.121/0.097 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60°C	50 Pa
68 (50 Hz) 81 (60 Hz)	54 (50 Hz) 63 (60 Hz)	62 (50 Hz)	75 V...126 V (115 V)	16/15 W (0.207/0.179 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60°C	50 Pa
142 (50 Hz) 170 (60 Hz)	130 (50 Hz) 151 (60 Hz)	138 (50 Hz) 152 (60 Hz)	175 V...253 V (230 V)	16.3/14.3 W (0.12/0.94 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60°C	50 Pa
151 (50 Hz) 173 (60 Hz)	130 (50 Hz) 151 (60 Hz)	138 (50 Hz) 156 (60 Hz)	75 V...126 V (115 V)	15.5/14.4 W (0.20/0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60°C	50 Pa
259 (50 Hz) 307 (60 Hz)	209 (50 Hz) 251 (60 Hz)	218 (50 Hz)	145 V...253 V (230 V)	36/37 W (0.17/0.16 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+ 70°C	158 Pa
259 (50 Hz) 307 (60 Hz)	209 (50 Hz) 251 (60 Hz)	221 (50 Hz)	75 V...126 V (115 V)	36/36 W (0.35/0.32 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10…+70°C	158 Pa
502 (50 Hz) 526 (60 Hz)	412 (50 Hz) 448 (60 Hz)	420 (50 Hz)	207 V...244 V (230 V)	68/85 W (0.52/0.370 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60°C	140 Pa
522 (50 Hz) 526 (60 Hz)	425 (50 Hz) 417 (60 Hz)	434 (50 Hz)	103 V...122 V (115 V)	65/83 W (0.60/0.72 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60°C	140 Pa
638 (50 Hz) 603 (60 Hz)	500 (50 Hz) 462 (60 Hz)	528 (50 Hz)	207 V...244 V (230 V)	150/195 W (0.65/0.85 A)	76/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa
783 (50 Hz) 744 (60 Hz)	643 (50 Hz) 442 (60 Hz)	654 (50 Hz)	103 V...122 V (115 V)	145/182 W (1.279/1.6 A)	78/77 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa
731 (50 Hz) 603 (60 Hz)	598 (50 Hz) 368 (60 Hz)	609 (50 Hz)	396 V...466 V (400 V)	126/126 W (0.226/0.232 A)	77/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa

How to identify whether your ClimaSys CV fan has been upgraded to install the CSVS solution?



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Type of connection				
by cable ★ Forced ventilation fan 38 m³/h	by faston (1) Forced ventilation fan 85 m³/h	by faston (1) Forced ventilation fan 165 m³/h	by faston (1) Forced ventilation fan 300 m³/h	by terminal block Forced ventilation fan 560-850 m³/h
NSYCVF38M230DG New	-	-	-	-
NSYCVF38M115DG New	-	-	-	-
-	NSYCVF85M230DG New	-	-	-
-	NSYCVF85M115DG New	-	-	-
-	-	NSYCVF165M230DG New	-	-
-	-	NSYCVF165M115DG New	-	-
-	-	-	NSYCVF300M230DG New	-
-	-	-	NSYCVF300M115DG New	-
-	-	-	-	NSYCVF560M230DG New
-	-	-	-	NSYCVF560M115DG New
-	-	-	-	NSYCVF850M230DG New
-	-	-	-	NSYCVF850M115DG New
-	-	-	-	NSYCVF850M400DG New

(1) Fan models with connection are delivered with the connection cord included (2 metres).

★ Warning: The fan **NSYCVF38M230DG** and **NSYCVF38M115DG** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply !

High-visibility LED indicators



Dust filter alarm
0%-60%



Dust filter alarm
60%-80%



Dust filter alarm
>80%



Fan lifespan
ended



PING function
Identification of the sensor on the panel
(flashing blue color)

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Thermal management system

Filterstat Controllers (4 ports) and thermal hubs (8 ports)

- Trim frame IP55 for installing the Filterstat Controller and thermal
- Hub on enclosure doors, side panels etc.



NSYCCOFST30V

Characteristics	Voltage	References
Filterstat Controllers	30 V AC/DC	**NSYCCOFST30V** New
Filterstat Controllers	90-250 V AC	**NSYCCOFST90250V** New



NSYCCOFSEM8U1

Characteristics	Voltage	References
Thermal Hub	30 V AC/DC	**NSYCCOFSEM8U1** New
Thermal Hub	90-250 V AC	**NSYCCOFSEM8U2** New

Modular frame IP55



NSYCCOFR55

Characteristics	References
Modular frame	**NSYCCOFR55** New

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Thermal management system

Filterstat communication cable

- Black unshielded cable with 2 connectors on each side.
- Material: PVC.



NSYCCA50MFST

Characteristics	References
Filterstat communication cable	NSYCCA50MFST New
Filterstat communication cable	NSYCCA100MFST New
Filterstat communication cable	NSYCCA150MFST New
Filterstat communication cable	NSYCCA200MFST New
Filterstat communication cable	NSYCCA300MFST New
Filterstat communication cable	NSYCCA400MFST New
Filterstat communication cable	NSYCCA500MFST New

Brownfield kits



NSYCCFSBRKIT92

Characteristics	Grid cut-out size (mm)	Cable size (m)	References
Brownfield kit	92 x 92	0.5	NSYCCFSBRKIT92 New
Brownfield kit	125 x 125	1	NSYCCFSBRKIT125 New
Brownfield kit	223 x 223	1.5	NSYCCFSBRKIT223 New
Brownfield kit	291 x 291	2	NSYCCFSBRKIT291 New

Smart ventilation systems





NSYCVF38M115DG

Characteristics	References
Smart ventilation systems, 38 m³/h 115 V IP54	NSYCVF38M115DG New
Smart ventilation systems, 38 m³/h 230 V IP54	NSYCVF38M230DG New
Smart ventilation systems, 85 m³/h 115 V IP54	NSYCVF85M115DG New
Smart ventilation systems, 85 m³/h 230 V IP54	NSYCVF85M230DG New
Smart ventilation systems, 165 m³/h 115 V IP54	NSYCVF165M115DG New
Smart ventilation systems, 165 m³/h 230 V IP54	NSYCVF165M230DG New
Smart ventilation systems, 300 m³/h 115 V IP54	NSYCVF300M115DG New
Smart ventilation systems, 300 m³/h 230 V IP54	NSYCVF300M230DG New
Smart ventilation systems, 560 m³/h 115 V IP54	NSYCVF560M115DG New
Smart ventilation systems, 582 m³/h 230 V IP54	NSYCVF560M230DG New
Smart ventilation systems, 850 m³/h 115 V IP54	NSYCVF850M115DG New
Smart ventilation systems, 850 m³/h 230 V IP54	NSYCVF850M230DG New
Smart ventilation systems, 850 m³/h 400 V IP54	NSYCVF850M400DG New

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Thermal management system

Smart Grid systems

Complete Smart Grids

- a Dust Sensor
- a SmartFilter G2
- Material: Injected thermoplastic (PC), self-extinguishing according to UL 94 V-0
- Colour: Smokey black RAL 9005
- Ingress protection rating (according to IEC 60529): IP54


NSYCAG92DG

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References	
Complete Smart Grid	137	117	13	92 x 92	NSYCAG92DG	New
Complete Smart Grid	170	150	15	125 x 125	NSYCAG125DG	New
Complete Smart Grid	268	248	18	223 x 223	NSYCAG223DG	New
Complete Smart Grid	336	316	18	291 x 291	NSYCAG291DG	New

External Smart Grids (without internal grid systems)

- External grids equipped with G2 Smart filter and Dust Sensor to be installed in an existing grid support.
- Material: Injected thermoplastic (PC), self-extinguishing according to UL 94 V-0
- Colour: Smokey black RAL 9005
- Ingress protection rating (according to IEC 60529): IP54


NSYCAG92DGC

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References	
External Smart Grid	137	117	13	92 x 92	NSYCAG92DGC	New
External Smart Grid	170	150	15	125 x 125	NSYCAG125DGC	New
External Smart Grid	268	248	18	223 x 223	NSYCAG223DGC	New
External Smart Grid	336	316	18	291 x 291	NSYCAG291DGC	New

External smokey grids (external cover only)

- External grids to be installed in an existing grid support or used as spare part.
- Smart filter and Dust sensor to be ordered separately.
- Material: Injected thermoplastic (PC), self-extinguishing according to UL 94 V-0
- Colour: Smokey black RAL 9005
- Ingress protection rating (according to IEC 60529): IP54


NSYCAG92BPC

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References	
External Smart Grid	137	117	13	92 x 92	NSYCAG92BPC	New
External Smart Grid	170	150	15	125 x 125	NSYCAG125BPC	New
External Smart Grid	336	316	18	291 x 291	NSYCAG223BPC	New
External Smart Grid	268	248	18	223 x 223	NSYCAG291BPC	New

Smart filters

- Set of 5 Smart filters for replacement on Smart Fans and Smart Grids. For fans and grilles.
- Material: Polyester.
- Filters according to ISO 16890.
- Colour: White with green lettering



NSYCAF92DG

Characteristics	Height (mm)	Width (mm)	Cut-out (mm)	References	
External Smart Grid, G2 M1 filters	137	117	92 x 92	NSYCAF92DG	New
External Smart Grid, G2 M1 filters	170	150	125 x 125	NSYCAF125DG	New
External Smart Grid, G2 M1 filters	268	248	223 x 223	NSYCAF223DG	New
External Smart Grid, G2 M1 filters	336	316	291 x 291	NSYCAF291DG	New
External Smart Grid, G3 M1 filters	170	150	125 x 125	NSYCAF125G3DG	New
External Smart Grid, G3 M1 filters	268	248	223 x 223	NSYCAF223G3DG	New
External Smart Grid, G3 M1 filters	336	316	291 x 291	NSYCAF291G3DG	New

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Thermal management system

Dust Sensor

- Individual Dust Sensor ready to be implemented on any existing ClimaSys CV fan or ClimaSys CA grids in the brownfield installation or used as spare part.


NSYCCAFSDUST

Characteristics	References
Dust Sensor	**NSYCCAFSDUST** New

Fan Sensor

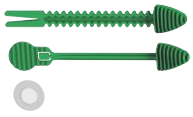
- Individual Fan Sensor ready to be implemented on any existing fan in the brownfield installation or used as spare part.


NSYCCARPM

Characteristics	References
Fan Sensor	**NSYCCARPM** New

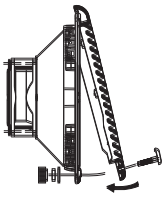
10 stickers and retainer flaps mini-tool kit

- Tool kit for digitalizing fans in brownfield installations without opening fan motor rear grids.


NSYCCABLK

Characteristics	References
10 stickers and retainer flaps mini-tool kit	**NSYCCABLK** New

Anti-vandalism kit



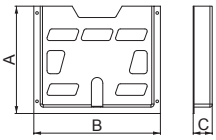

NSYCAAPV

- Helps prevent the grid from being opened from the outside.
- The unlocking thumbwheel is accessed from the inside of the enclosure.
- Colour: RAL 7011

Supply:
Minor packaging 2

Characteristics	References
Anti-vandalism kit	**NSYCAAPV** New

Filter Pocket



- Fixed by adhesive tape
- Material: Polystyrene (PS)
- Colour: RAL 7035 grey (**NSYDPA4**: RAL 9001)

(1) Not compatible with 19" chassis or modular distribution installation.

Supply:
1 plastic document pocket

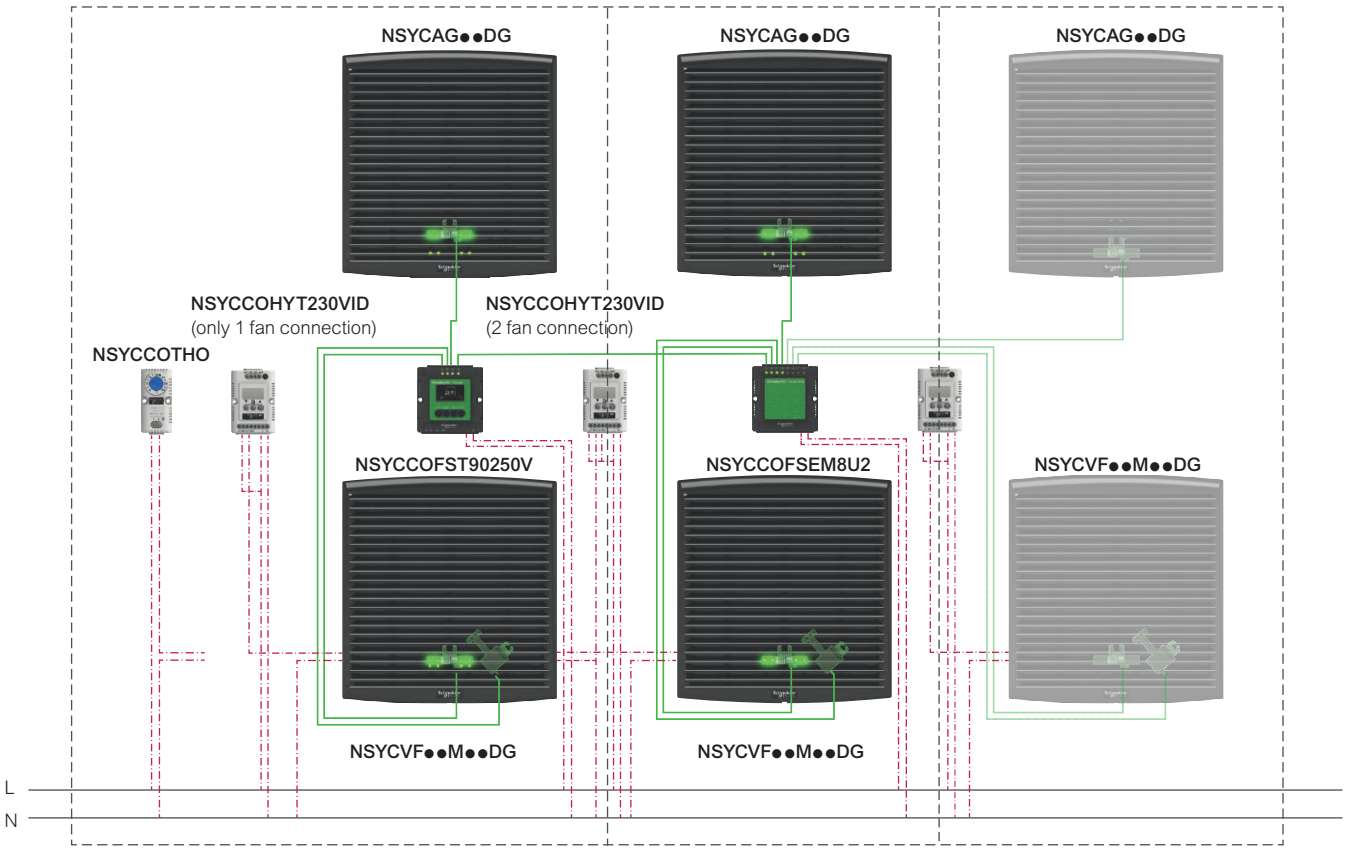

NSYDPA5

Characteristics	Smart filter references	Dimensions			References
		A (mm)	B (mm)	C (mm)	
Pocket A5	NSYCAF92•DG and NSYCAF125•DG	137	117	13	**NSYDPA5**
Pocket A4	NSYCAF223•DG	170	150	15	**NSYDPA4**
Pocket A4 (1)	NSYCAF223•DG	268	248	18	**NSYDPA44**
Pocket A3	NSYCAF291•DG	336	316	18	**NSYDPA3**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Thermal management system

ClimaSys (CSVS) General wiring diagram



Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Life Is On Schneider Electric

Thermal management system Forced ventilation

- Characteristics: The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles. This filter can be replaced during operation without risk of contact with the rotating element.
- Material external grids: Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0
- Colour external grids: RAL 7035 grey as standard
- Conditions of use: The external temperature must not exceed 30°C and must be more than 5°C lower than the temperature wanted in the enclosure. The filters that equip the fans must be cleaned and replaced regularly. The ambient air must be relatively clean and overfrequent filter replacement should be avoided. Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate Storage Temperature: -40…+ 70°C
- Ingress protection rating (according to IEC 60529): IP54
- Mechanical protection rating (according to IEC 62262): IK08
- Installation: The cut-out template supplied with the device avoids the need for marking and helps protect the surface of the enclosure during handling
- Options: The device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles

Free flow rate with standard filter (m^3/h)	Flow rate with outlet grille(s) (m^3/h)		Voltage range (nominal voltage)	Absorbed power (max. intensity)	Noise level	External dimensions (cut-out)	Weight	Operating temperature	Max. static pressure
	1	2							
38 (50 Hz) 39 (60 Hz)	25 (50 Hz) 26 (60 Hz)	33 (50 Hz)	150 V...250 V (230 V)	4.5/4.8 W (0.16/0.17 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70°C	29 Pa
38 (50 Hz) 39 (60 Hz)	27 (50 Hz) 28 (60 Hz)	35 (50 Hz)	75 V...125 V (115 V)	3.3/3.5 W (0.16/0.16 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+ 70°C	29 Pa
58	39	47	10 V...27.6 V (24 V DC)	3.6 W (0.18 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+ 70°C	29 Pa
44	34	41	36 V...56 V (48 V DC)	3.6 W (70 mA)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+ 70°C	29 Pa
85 (50 Hz) 98 (60 Hz)	63 (50 Hz) 72 (60 Hz)	71 (50 Hz)	175 V...253 V (230 V)	17/15 W (0.121/0.097 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60°C	50 Pa
79 (50 Hz) 92 (60 Hz)	65 (50 Hz) 74 (60 Hz)	73 (50 Hz)	75 V...126 V (115 V)	16/15 W (0.207/0.179 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20…+60°C	50 Pa
80	57	77	10 V...27.6 V (24 V DC)	7.6 W (0.30 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+ 70°C	50 Pa
79	59	68	25 V...55.2 V (48 V DC)	8 W (0.173 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+ 70°C	50 Pa
165 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 175 (60 Hz)	175 V...253 V (230 V)	16.3/14.3 W (0.12/0.94 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60°C	50 Pa
164 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 179 (60 Hz)	75 V...126 V (115 V)	15.5/14.4 W (0.20/0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20…+60°C	50 Pa
188	171	179	10 V...27.6 V (24 V DC)	8 W (0.3 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+ 70°C	50 Pa
193	171	179	25 V...55.2 V (48 V DC)	8.7 W (0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+ 70°C	50 Pa
302 (50 Hz) 350 (60 Hz)	260 (50 Hz) 307 (60 Hz)	268 (50 Hz)	145 V...253 V (230 V)	36/37 W (0.17/0.16 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+ 70°C	158 Pa
302 (50 Hz) 350 (60 Hz)	263 (50 Hz) 307 (60 Hz)	271 (50 Hz)	75 V...126 V (115 V)	36/36 W (0.35/0.32 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10…+70°C	158 Pa
262	221	229	12 V...30 V (24 V DC)	13 W (0.53 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10...+ 70°C	158 Pa
247	210	218	25 V...60 V (48 V DC)	11 W (0.24 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10…+70°C	158 Pa
562 (50 Hz) 586 (60 Hz)	473 (50 Hz) 477 (60 Hz)	481 (50 Hz)	207 V...244 V (230 V)	68/85 W (0.52/0.370 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60°C	140 Pa
582 (50 Hz) 586 (60 Hz)	485 (50 Hz) 477 (60 Hz)	494 (50 Hz)	103 V...122 V (115 V)	65/83 W (0.60/0.72 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15…+60°C	140 Pa
838 (50 Hz) 803 (60 Hz)	718 (50 Hz) 568 (60 Hz)	728 (50 Hz)	207 V...244 V (230 V)	150/195 W (0.65/0.85 A)	76/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa
983 (50 Hz) 944 (60 Hz)	843 (50 Hz) 642 (60 Hz)	854 (50 Hz)	103 V...122 V (115 V)	145/182 W (1.279/1.6 A)	78/77 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa
931 (50 Hz) 803 (60 Hz)	798 (50 Hz) 568 (60 Hz)	809 (50 Hz)	396 V...466 V (400 V)	126/126 W (0.226/0.232 A)	77/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15…+60°C	170 Pa

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Type of connection				
by cable Forced ventilation fan 38 m³/h	by faston [1] Forced ventilation fan 85 m³/h	by faston [1] Forced ventilation fan 165 m³/h	by faston [1] Forced ventilation fan 300 m³/h	by terminal block Forced ventilation fan 560-850 m³/h
NSYCVF38M230PF ★	-	-	-	-
NSYCVF38M115PF ★	-	-	-	-
NSYCVF38M24DPF	-	-	-	-
NSYCVF38M48DPF	-	-	-	-
-	**NSYCVF85M230PF**	-	-	-
-	**NSYCVF85M115PF**	-	-	-
-	**NSYCVF85M24DPF**	-	-	-
-	**NSYCVF85M48DPF**	-	-	-
-	-	**NSYCVF165M230PF**	-	-
-	-	**NSYCVF165M115PF**	-	-
-	-	**NSYCVF165M24DPF**	-	-
-	-	**NSYCVF165M48DPF**	-	-
-	-	-	**NSYCVF300M230PF**	-
-	-	-	**NSYCVF300M115PF**	-
-	-	-	**NSYCVF300M24DPF**	-
-	-	-	**NSYCVF300M48DPF**	-
-	-	-	-	**NSYCVF560M230PF**
-	-	-	-	**NSYCVF560M115PF**
-	-	-	-	**NSYCVF850M230PF**
-	-	-	-	**NSYCVF850M115PF**
-	-	-	-	**NSYCVF850M400PF**

[1] Fan models with connection are delivered with the connection cord included (2 metres).

★ Warning: The fan **NSYCVF38M230PF** and **NSYCVF38M115PF** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply !

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Thermal management system

Ventilation Systems, IP54 outlet grilles

- Delivered with G2 M1 synthetic standard filter according to ISO 16890.
- Material: Injected thermoplastic (ASA PC), self-extinguishing according to UL 94 V-0
- Colour: RAL 7035 grey
- Ingress protection rating (according to IEC 60529): IP54


NSYCAG92LPF

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References
IP54 outlet grilles	137	117	13	92 x 92	**NSYCAG92LPF**
IP54 outlet grilles	170	150	15	125 x 125	**NSYCAG125LPF**
IP54 outlet grilles	268	248	18	223 x 223	**NSYCAG223LPF**
IP54 outlet grilles	336	316	18	291 x 291	**NSYCAG291LPF**

IP54 outlet grilles

- Cover for changing the colour of the standard gille RAL 7035 grey to RAL 7032.
- Material: Injected thermoplastic (ASA PC), self-extinguishing according to UL 94 V-0
- Colour: RAL 7032
- Ingress protection rating (according to IEC 60529): IP54

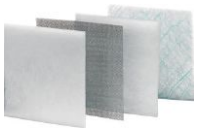

NSYCAG92LPC

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References
IP54 outlet grilles	137	117	13	92 x 92	**NSYCAG92LPC**
IP54 outlet grilles	170	150	15	125 x 125	**NSYCAG125LPC**
IP54 outlet grilles	268	248	18	223 x 223	**NSYCAG223LPC**
IP54 outlet grilles	336	316	18	291 x 291	**NSYCAG291LPC**

Filters

Supply:
- G2 M1 synthetic standard filters, Filters for greasy environments G2 M1, G3 M1 synthetic fine filters: 5 units
- Stainless steel anti-insect filters: 1 unit

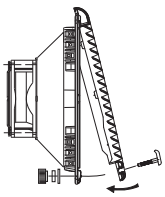
- For fans and grilles.
- Filters according to ISO 16890.


NSYCAF223T

Characteristics	Height (mm)	Width (mm)	Cut-out (mm)	References
G2 M1 synthetic standard filters	137	117	92 x 92	**NSYCAF92**
G2 M1 synthetic standard filters	170	150	125 x 125	**NSYCAF125**
G2 M1 synthetic standard filters	268	248	223 x 223	**NSYCAF223**
G2 M1 synthetic standard filters	336	316	291 x 291	**NSYCAF291**
Filters for greasy environments G2 M1	170	150	125 x 125	**NSYCAF125O**
Filters for greasy environments G2 M1	268	248	223 x 223	**NSYCAF223O**
Filters for greasy environments G2 M1	336	316	291 x 291	**NSYCAF291O**
G3 M1 synthetic fine filters	170	150	125 x 125	**NSYCAF125T**
G3 M1 synthetic fine filters	268	248	223 x 223	**NSYCAF223T**
G3 M1 synthetic fine filters	336	316	291 x 291	**NSYCAF291T**
Stainless steel anti-insect filters	137	117	92 x 92	**NSYCAF92M**
Stainless steel anti-insect filters	170	150	125 x 125	**NSYCAF125M**
Stainless steel anti-insect filters	268	248	223 x 223	**NSYCAF223M**
Stainless steel anti-insect filters	336	316	291 x 291	**NSYCAF291M**

Anti-vandalism kit


NSYCAAPV



- Helps prevent the grid from being opened from the outside.
- The unlocking thumbwheel is accessed from the inside of the enclosure.
- Colour: RAL 7011

Supply:
Minor packaging 2

Characteristics	References
Anti-vandalism kit	**NSYCAAPV**

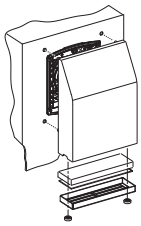
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ClimaSys CV, Accessories

Covers IP55

- This solution helps protect the fan or the grille from any direct sprays.
- The cover is the preferred solution to help guarantee the following:
  - an efficient air flow for cooling,
  - IP55 rating.
- Material: 2 materials available:
  - steel painted with epoxy polyester powder (RAL 7035 grey) for outdoor applications
  - stainless steel 304L for food and beverage applications
- Ingress protection rating (according to IEC 60529): IP55
- Mechanical protection rating (according to IEC 62262): IK10
- Certifications: UL 508A
- Installation: Double insulation maintained if installed in an insulated enclosure. The cover is placed over the fan or the grille with a filter located at the bottom of the cover to help prevent the entry of particles. Easy access to the filter: Only two screws needed. When mounting: Remove the external part of the fan or the grille as well as the filter.

(1) Values given for a fan powered at 230 V. For other voltages, the values are similar



Supply:
It is necessary to order 1 fan + 1 grille + 2 covers to have a complete system



NSYCAP125LZF

Characteristics	Flow rate (m³/h) with cover (1)		Dimensions		References
	Free	With 1 outlet grille	External (mm)	Cut-out (mm)	
Steel painted RAL 7035 grey	74	53	240 x 180 x 60	125 x 125	**NSYCAP125LZF**
Steel painted RAL 7035 grey	110	82	350 x 305 x 80	223 x 223	**NSYCAP223LZF**
Steel painted RAL 7035 grey	165	123	350 x 305 x 80	223 x 223	**NSYCAP223LZF**
Steel painted RAL 7035 grey	316	265	430 x 373 x 105	291 x 291	**NSYCAP291LZF**
Steel painted RAL 7035 grey	502	430	430 x 373 x 105	291 x 291	**NSYCAP291LZF**
Stainless steel 304L	74	53	240 x 180 x 60	125 x 125	**NSYCAP125LXF**
Stainless steel 304L	110	82	350 x 305 x 80	223 x 223	**NSYCAP223LXF**
Stainless steel 304L	165	123	350 x 305 x 80	223 x 223	**NSYCAP223LXF**
Stainless steel 304L	316	265	430 x 373 x 105	291 x 291	**NSYCAP291LXF**
Stainless steel 304L	502	430	430 x 373 x 105	291 x 291	**NSYCAP291LXF**

Spare filter for cover

Supply:
Emb. mineur 5 p



NSYCAF125L55

Characteristics	Flow rate (m³/h) with cover (1)		Dimensions		References
	Free	With 1 outlet grille	External (mm)	Cut-out (mm)	
Spare filter for cover	74	53	240 x 180 x 60	125 x 125	**NSYCAF125L55**
Spare filter for cover	110	82	350 x 305 x 80	223 x 223	**NSYCAF223L55**
Spare filter for cover	165	123	350 x 305 x 80	223 x 223	**NSYCAF223L55**
Spare filter for cover	316	265	430 x 373 x 105	291 x 291	**NSYCAF291L55**
Spare filter for cover	502	430	430 x 373 x 105	291 x 291	**NSYCAF291L55**

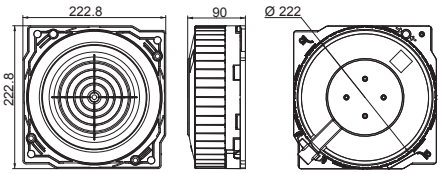
Characteristics				Fan	Grille
					
Flow rate (m³/h) with cover (1)		Dimensions (mm)		RAL 7035 grey	RAL 7035 grey
Free	With 1 outlet grille	External	Cut-out	References	References
74	53	240 x 180 x 60	125 x 125	**NSYCVF85M230PF**	**NSYCAG125LPF**
110	82	350 x 305 x 80	223 x 223	**NSYCVF165M230PF**	**NSYCAG223LPF**
165	123	350 x 305 x 80	223 x 223	**NSYCVF300M230PF**	**NSYCAG223LPF**
316	265	430 x 373 x 105	291 x 291	**NSYCVF560M230PF**	**NSYCAG291LPF**
502	430	430 x 373 x 105	291 x 291	**NSYCVF850M230PF**	**NSYCAG291LPF**

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Thermal management system

Ventilation system Heavy duty

Fanbox



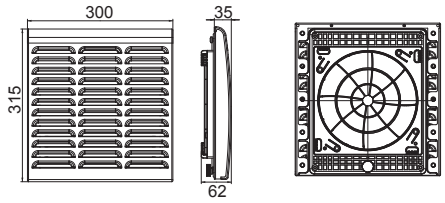
- Free flow rate: 550 m3/h (50/60 Hz).
- Minimal depth inside the enclosure (90 mm).
- Allows multiple cooling architectures (see page 554 and 555).
- Material: Plastic
- Colour: RAL 7016 dark grey

Supply:
1 (grille not included)


NSYCVF550M24FB

Characteristics	Voltage	References
Fanbox	24 V DC	**NSYCVF550M24FB**
Fanbox	48 V DC	**NSYCVF550M48FB**
Fanbox	115 V AC	**NSYCVF550M115FB**
Fanbox	230 V AC	**NSYCVF550M230FB**

IP55 HD Metal Grille



- Slim grille (35 mm external depth).
- Includes a G3 M1
- Material: Steel with anti-corrosive coating + plastic PA6 / GF25 for fixing frame
- Finish: Structured finish, 100 % polyester powder
- Colour: RAL 7035 grey
- Ingress protection rating: IP55 according to IEC 60529
- Mechanical protection rating: IK10 according to IEC 62262

Supply:
1 grille delivered with G3 M1 type synthetic filter (215 x 215 mm) and fixings


NSYCAG223LFHD

Characteristics	References
IP55 HD Metal Grille	**NSYCAG223LFHD**

Roof filter for fanbox (extraction mode)

- Roof G2 round synthetic filter designed to cover the fanbox. Covers completely the fanbox and helps to protect it from dust and humidity. Mandatory for fanbox installation in the Roof ventilation module for IP55 configurations.
- Material: 100 % polyester fibres
- Colour: White

Supply:
1

NSYCAF190

Characteristics	References
Roof filter for fanbox	**NSYCAF190**

Filter

- Replacement G3 M1 type synthetic filter for HD metal grille.
- Dimensions: 215 x 215 mm.
- Material: 100 % polyester fibres
- Colour: White

Supply:
5


NSYCAF223T

Characteristics	Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References
G3 M1 synthetic fine filters	268	248	18	223 x 223	**NSYCAF223T**

Anti-vandalism kit for HD metal grille

Comment:
not compatible with **NSYSPLA150**

- Fixings that help to prevent to open the grille from the outside with standard tools (EN 1627-1630:2011 Class 2).
- Quick installation without tools.
- Material: Steel with anticorrosive coating + plastic for fixing screws

Supply:
4 grip knob
4 clip nuts


NSYCAAPVHD

Characteristics	References
Anti-vandalism kit for HD metal grille	**NSYCAAPVHD**

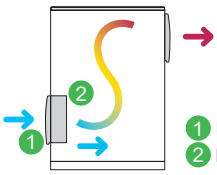
12
CV

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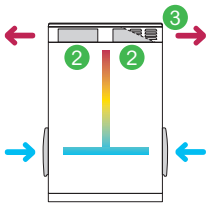
Life Is On Schneider Electric

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Thermal management system



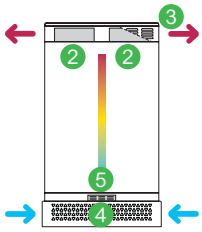
1 IP55 metal grille
2 Fanbox



2 Fanbox
3 Roof ventilated module

	S-Line				T-Line				
Architecture benefits	• Most common and competitive architecture • Maximum heat dissipation to extract 800 W-1000 W • ΔT° of 5°C • Easy access to mount-dismount fanbox • Air flow in horizontal axis				• High capacity of extraction calories up to 1500 W • Noise level with 1 fan: 55 dB when installed inside the upper ventilation module • ΔT° of 5°C • Air flow in vertical axis				
	IP55 metal grille		Fanbox		IP55 metal grille		Fanbox (1 filter NSYCAF190 for each Fanbox)	Roof ventilation module	
	Door	Side	Door	Side	Door	Side			
Polyester outdoor HD enclosure									
References	Amount to be installed				Amount to be installed				References
NSYPHDT553	-	-	-	-	-	-	-	-	-
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1054	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	**NSYPCVR54HD**
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1254	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	**NSYPCVR54HD**
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
Steel outdoor HD enclosure									
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	**NSYS3CVR64HD**
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYS3CVR84HD**
NSYSFHD12640	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR64HD**
NSYSFHD12660	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	**NSYSFCVR66HD**
NSYSFHD12840	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFECA66HD**
NSYSFHD16660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1	1	**NSYSFCVR66HD**
NSYSFHD16840	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFECA66HD**
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFCVR84HD**
NSYSFHD1212402D	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1212602D	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 3	1	**NSYSFCVR126HD**
NSYSFHD1612402D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR124HD**
NSYSFHD1612602D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYSFCVR126HD**

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2 Fanbox
3 Roof ventilated module
4 Ventilated plinths
5 IP54 grille

This table helps to configure thermal architectures, but it is highly recommended to use ProClima Software to help ensure theright thermal solution according to the selected architecture.

I-Line

- Integrated architecture particularly suitable for public areas
- High capacity of extraction calories up to 1500 W
- Noise level with 1 fan: 55 dB when installed inside the upper ventilation module
- Good extraction flow rate power
- Air flow in vertical axis

IP54 outlet grille (NSY-CAG223LPF + G3 filter NSYCAF223T)		Ventilated plinths		Fanbox (1 filter NSYCAF190 for each Fanbox)		Roof ventilation module	
Amount to be installed		References		Amount to be installed		References	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	

1	1	NSYSPFVX6200	NSYSPSX3200	-	-	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYS3CVR64HD
1	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYSFCVR64HD
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFECA66HD
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFECA66HD
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD

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Thermal management system

EMC ventilation Systems

EMC IP54 fan

- To effectively protect the equipment against electromagnetic disruptions, the EMC fan is equipped with:
  - a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL94 V0),
  - a metal grille attached to the frame,
  - a beryllium gasket helping guarantee conductivity between the perimeter of the fan unit and the enclosure.
- Ingress protection rating (according to IEC 60529): IP54

For more details see page 560


NSY17990

Characteristics	Flow rate (m³/h)	Voltage (V)	Dimensions External (mm)	Cut-out (mm)	References
EMC IP54 fan	61	230	145 x 145 x 70	126 x 126	**NSY17990**
EMC IP54 fan	156	230	252 x 252 x 97	224 x 224	**NSY17991**
EMC IP54 fan	480	230	320 x 320 x 150	292 x 292	**NSY17992**

EMC IP54 outlet grille

- Grille equipped with:
  - a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL 94 V-0),
  - a metal grille attached to the frame,
  - a beryllium gasket helping guarantee conductivity between the perimeter of the grille and the enclosure.
- Ingress protection rating (according to IEC 60529): IP54

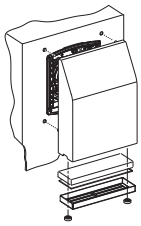

NSY17996

Characteristics	Dimensions External (mm)	Cut-out (mm)	References
EMC IP54 outlet grille	145 x 145 x 70	126 x 126	**NSY17996**
EMC IP54 outlet grille	252 x 252 x 97	224 x 224	**NSY17997**
EMC IP54 outlet grille	320 x 320 x 150	292 x 292	**NSY17998**

EMC IP55 cover

- This solution helps guarantee protection against electromagnetic disruptions and helps guarantee IP55.
- The EMC cover is installed on the fans or standard IP54 outlet grilles.
- The cover, made from painted sheet steel for outdoor, completely covers the fan or outlet grille.
- Conductivity is obtained by means of:
  - a conductive coating (2 Ω),
  - a conductive copper braid.
- Colour: RAL 7035 grey
- Ingress protection rating (according to IEC 60529): IP55
- Mechanical protection rating (according to IEC 62262): IK10
- Certifications: UL 508A Type 3R

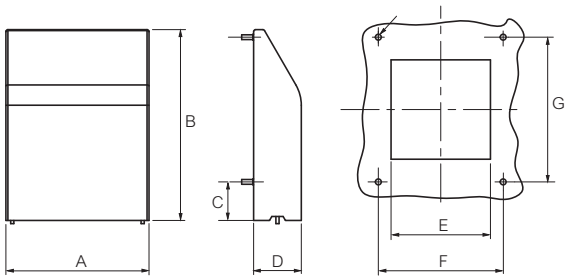
(1) Values given for a fan powered at 230 V. For other voltages, the values are similar




NSYCAP223LE

Characteristics	Flow rate (m³/h) with cover (1)		Dimensions		References
	Free	With 1 outlet grille	External (mm)	Cut-out (mm)	
Sheet steel painted for outdoor applications, RAL 7035 grey	110	82	350 x 305 x 80	223 x 223	**NSYCAP223LE**
Sheet steel painted for outdoor applications, RAL 7035 grey	165	123	350 x 305 x 80	223 x 223	**NSYCAP223LE**
Sheet steel painted for outdoor applications, RAL 7035 grey	316	265	430 x 373 x 105	291 x 291	**NSYCAP291LE**
Sheet steel painted for outdoor applications, RAL 7035 grey	502	430	430 x 373 x 105	291 x 291	**NSYCAP291LE**

Dimensions of IP54 and EMC covers



Dimensions (mm)								Cover references		
A	B	C	D	E	F	G	No. of fixing points	IP55		EMC
180	240	49	49	49	157	182	4	**NSYCAP125LZF**	**NSYCAP125LXF**	**NSYCAP125LE**
305	350	61	61	61	283	280	8	**NSYCAP223LZF**	**NSYCAP223LXF**	**NSYCAP223LE**
373	430	73	73	73	351	348	8	**NSYCAP291LZF**	**NSYCAP291LXF**	**NSYCAP291LE**

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Thermal management system

Spare filter for cover

(1) Values given for a fan powered at 230 V. For other voltages, the values are similar

Supply:
Emb. mineur 5 p


NSYCAF125L55

Characteristics	Flow rate (m³/h) with cover (1)		Dimensions		References
	Free	With 1 outlet grille	External (mm)	Cut-out (mm)	
Spare filter for cover	74	53	240 x 180 x 60	125 x 125	**NSYCAF125L55**
Spare filter for cover	110	82	350 x 305 x 80	223 x 223	**NSYCAF223L55**
Spare filter for cover	165	123	350 x 305 x 80	223 x 223	**NSYCAF223L55**
Spare filter for cover	316	265	430 x 373 x 105	291 x 291	**NSYCAF291L55**
Spare filter for cover	502	430	430 x 373 x 105	291 x 291	**NSYCAF291L55**

Fan

(1) Values given for a fan powered at 230 V. For other voltages, the values are similar

- Colour: RAL 7035 grey


NSYCVF85M230PF

Characteristics	Flow rate (m³/h) with cover (1)		Dimensions		References
	Free	With 1 outlet grille	External (mm)	Cut-out (mm)	
Fan	74	53	240 x 180 x 60	125 x 125	**NSYCVF85M230PF**
Fan	110	82	350 x 305 x 80	223 x 223	**NSYCVF165M230PF**
Fan	165	123	350 x 305 x 80	223 x 223	**NSYCVF300M230PF**
Fan	316	265	430 x 373 x 105	291 x 291	**NSYCVF560M230PF**
Fan	502	430	430 x 373 x 105	291 x 291	**NSYCVF850M230PF**

Grille

(1) Values given for a fan powered at 230 V. For other voltages, the values are similar

- Colour: RAL 7035 grey


NSYCAG125LPF

Characteristics	Flow rate (m³/h) with cover (1)		Dimensions		References
	Free	With 1 outlet grille	External (mm)	Cut-out (mm)	
Grille	74	53	240 x 180 x 60	125 x 125	**NSYCAG125LPF**
Grille	110	82	350 x 305 x 80	223 x 223	**NSYCAG223LPF**
Grille	165	123	350 x 305 x 80	223 x 223	**NSYCAG223LPF**
Grille	316	265	430 x 373 x 105	291 x 291	**NSYCAG291LPF**
Grille	502	430	430 x 373 x 105	291 x 291	**NSYCAG291LPF**

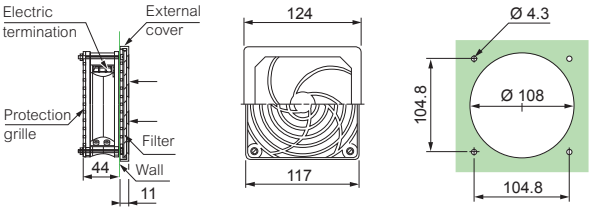
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Thermal management system

Fans by components

Fans

- Free flow without filter or grille: 170 m3/h.
- Two models according to the input voltage: 230 and 115 V, 50-60 Hz.
- Ingress protection rating: IP20 according to IEC 60529.
- Options: IP20 outlet grille (ABS, black) and filter (black polyurethane foam).




NSYCVF65M115PF

Characteristics	Flow rate (m³/h)	Voltage (V)	References
Fan	65	115	**NSYCVF65M115PF**
Fan	65	230	**NSYCVF65M230PF**

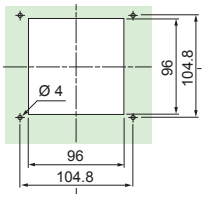
Fan accessories


NSYCAF108

Characteristics	Dimensions External (mm)	References
Outlet grille	124 x 124 x 11	**NSYCAG108LP**
Filter	-	**NSYCAF108**

Ventilation kit

- Ingress protection rating: IP33 according to IEC 60529.
- Mechanical protection rating: IK10 according to IEC 62262.
- Overall flow rate: 54 m³/h.



Supply:
- one 120 x 120 x 38 mm fan, 230 V - 50/60 Hz, free flow rate 170 m³/h,
- two 120 x 120 mm metal grilles, RAL 7035 grey,
- two 115 x 98 mm anti-insect filters, stainless steel 304L wire Ø 0.32 mm braided,
- 1.07 mm meshes,
- 1 power cord,
- the fixings required for installation.


NSYCVF54M230MM2

Characteristics	Flow rate (m³/h)	Voltage (V)	References
Ventilation kit	54	230	**NSYCVF54M230MM2**

Top hood with fan and cover

- Ingress protection rating: IP54 according to IEC 60529.
- Certification: UL.
- Installation: Installation and removal from the outside.
- Electric power: 85 W.
- Noise level: 64 dB (A).

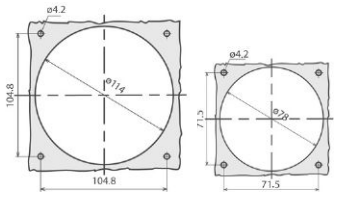
Comment:
Flow rate measured without counter-pressure

Supply:
delivered with fixings and connection terminal block.


NSYCVF570M115MF

Characteristics	Weight (kg)	Flow rate (m³/h)	Voltage (V)	References
Top hood with fan and cover	5.8	570	115	**NSYCVF570M115MF**
Top hood with fan and cover	5.8	575	230	**NSYCVF575M230MF**

Fan motor




NSYCVF156M230


NSYCVF156M115

- Turbine-type fan motor for ventilation/extraction.

Characteristics	Flow rate (m³/h)	Voltage (V/Hz)	Absorbed power (W)	Noise level (dB)	External dimensions (mm)	References
Fan motor	156	230/50-60	17/15	42	120 x 120 x 38	**NSYCVF156M230**
Fan motor	156	115/50-60	17/15	42	120 x 120 x 38	**NSYCVF156M115**
Fan motor	35	230/50-60	16/14	32	80 x 80 x 25	**NSYCVF35M230**
Fan motor	35	115/50-60	16/14	32	80 x 80 x 25	**NSYCVF35M115**

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Thermal management system

Fans by components

Outlet grille

- Outlet filter kit for enclosure ventilation.
- For coupling to fans **NSYCVF156M●●●** and **NSYCVF35M●●●**.



NSYCAG114LPF

Characteristics	External dimensions (mm)	References
Outlet grille	120 x 120 x 38	**NSYCAG114LPF**
Outlet grille	80 x 80 x 25	**NSYCAG78LPF**

Rear protective grille

- Protective grille for enclosure fan motor
- For coupling to fans **NSYCVF156M●●●** and **NSYCVF35M●●●**



NSYCVA114M



NSYCVA78M

Characteristics	External dimensions (mm)	References
Rear protective grille	120 x 120 x 38	**NSYCVA114M**
Rear protective grille	80 x 80 x 25	**NSYCVA78M**

Fan connection cable

- For coupling to the connection terminal of the fan motors.



NSYCVAC100

Characteristics	References
Fan connection cable, length = 1 m	**NSYCVAC100**

Circulating for internal forced convection

Circulation fan

User protection according to DIN 31001.
Dimensions:
- Fan: 119 x 119 x 38 mm.
- Collar: Length: 140 mm; Fixing centre-to-centre distance: 130 mm.
- Installation on ball-bearing.

Comment:
(1) Free flow.



NSYCVF170M115

Characteristics	Flow rate (m^3/h) (1)	Voltage (V)	Weight. (kg)	P (W)	dB (A)	References
Circulation fan	170	115	0.82	17	41	**NSYCVF170M115**
Circulation fan	170	230	0.82	17	41	**NSYCVF170M230**

Tangential fan, 19'' 2 U

Comment:
(1) Flow rate measured without counter-pressure.

Supply:
delivered with fixings and connection terminal block.

- Air is sucked in from the front, filtered and forced vertically through the equipment.



NSYAVG2U300

Characteristics	Flow rate (m^3/h) (1)	Voltage (V)	P (W)	References
Tangential fan, 19'' 2 U	300	230 (50-60 Hz)	37	**NSYAVG2U300**

Comment:
Flow rate measured without counter-pressure.
(1) Direct current.

Supply:
Delivered without connection cord

- Increases the speed of upward air circulation, in particular between trays with cards.
- Frontal operation LED.
- It is advisable to install slides, ref. **NSYGB140** to guarantee optimal support of the fan.



NSYAVD1U480



NSYAVD1U970

Characteristics	Flow rate (m^3/h)	Voltage (V)	No.	Weight. (kg)	P (W)	I (mA)	dB (A)	Depth (mm)	References
Circulation fan, 19'' 1 U D210	486	230	3	3.3	45	300	43	208	**NSYAVD1U480**
Circulation fan, 19'' 1 U D330	972	230	6	5.5	90	600	44	330	**NSYAVD1U970**
Circulation fan, 19'' 1 U D452	1458	230	9	7.8	135	900	45	452	**NSYAVD1U1450**
Circulation fan, 19'' 1 U D210 (1)	552 (2)	48 (DC)	3	3.3	21.3	330	43	208	**NSYAVD1U550M48**

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Thermal management system

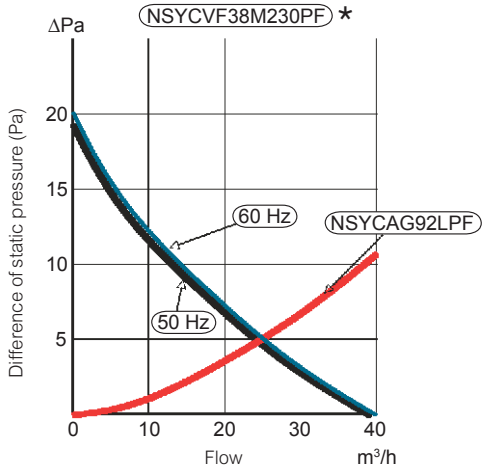
Smart ventilation systems

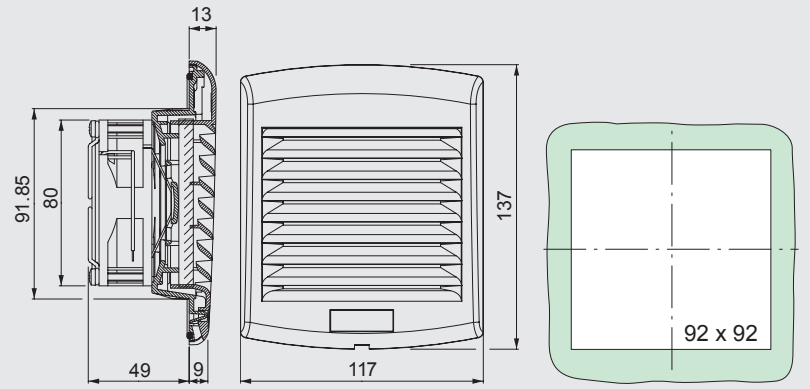
Fan 38 m³/h

Comment: Adding the Dust Sensor will decrease the flow rate by nearly 10%.

★ Warning: The fan **NSYCVF38M230DG** and **NSYCVF38M115DG** and **NSYCVF38M230PF** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply !

Flow curves

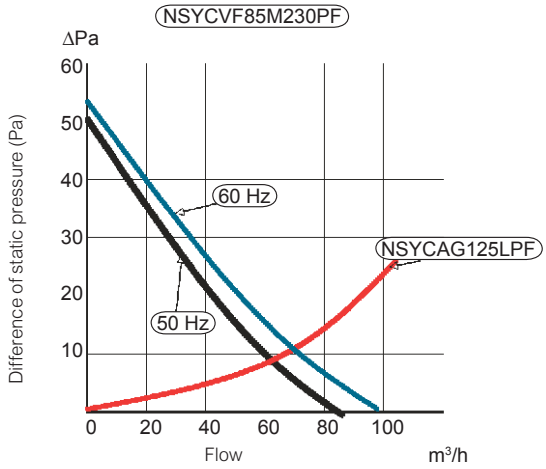


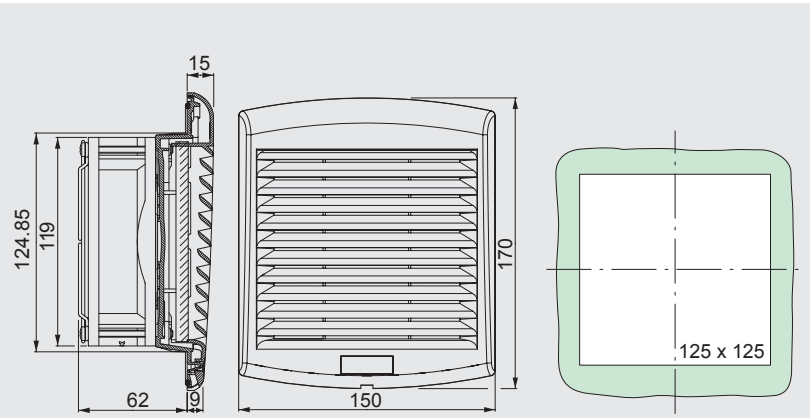


Fan 85 m³/h

Comment: Adding the Dust Sensor will decrease the flow rate by nearly 5%.

Flow curves

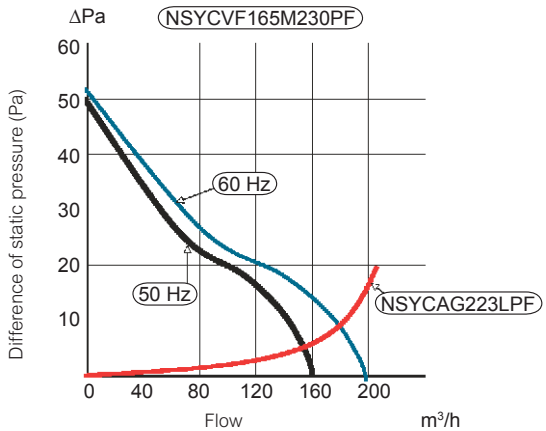


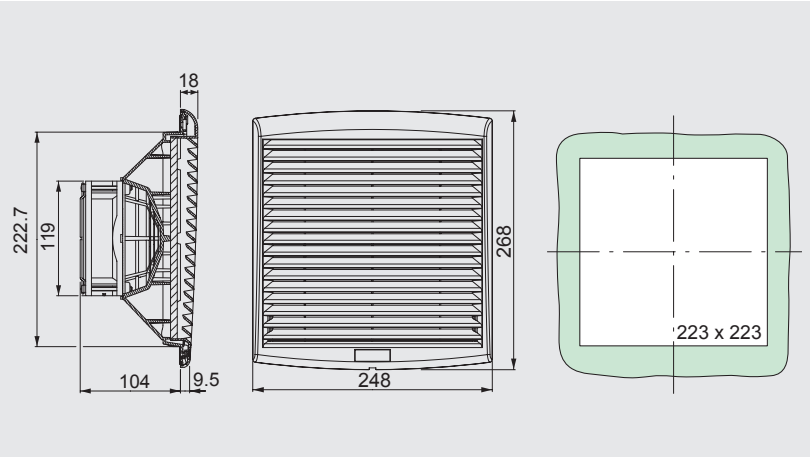


Fan 165 m³/h

Comment: Adding the Dust Sensor will decrease the flow rate by nearly 5%.

Flow curves





12
CV

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Life Is On Schneider Electric

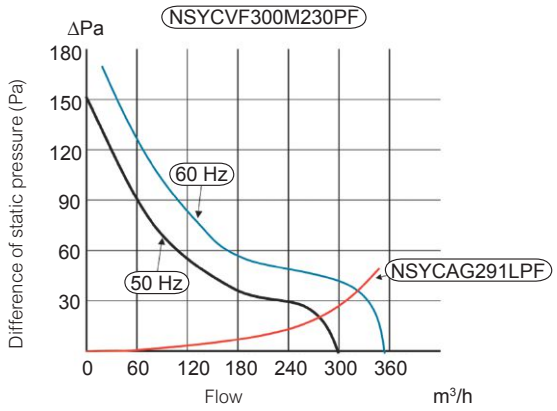
Thermal management system

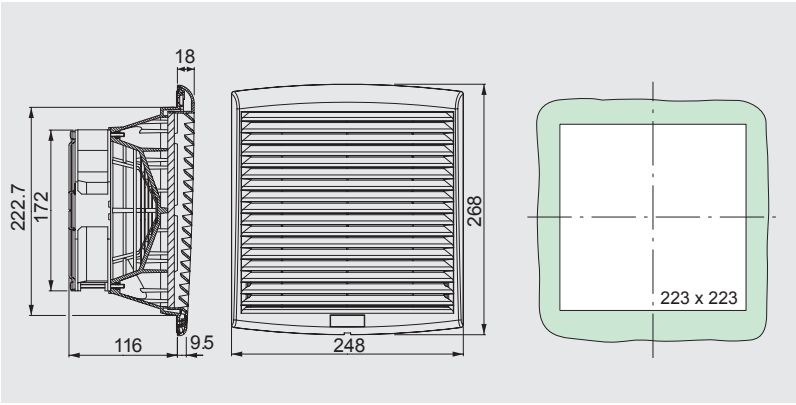
Smart ventilation systems

Fan 300 m³/h

Comment: Adding the Dust Sensor will decrease the flow rate by nearly 5%.

Flow curves

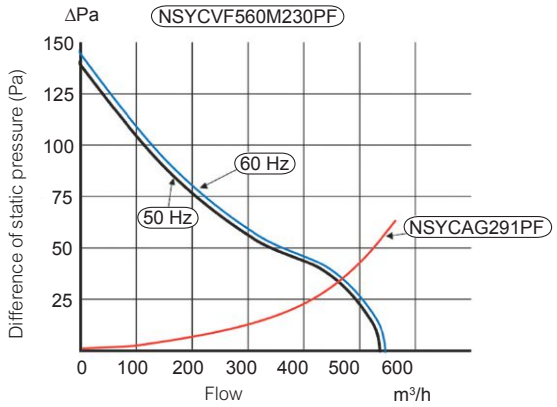


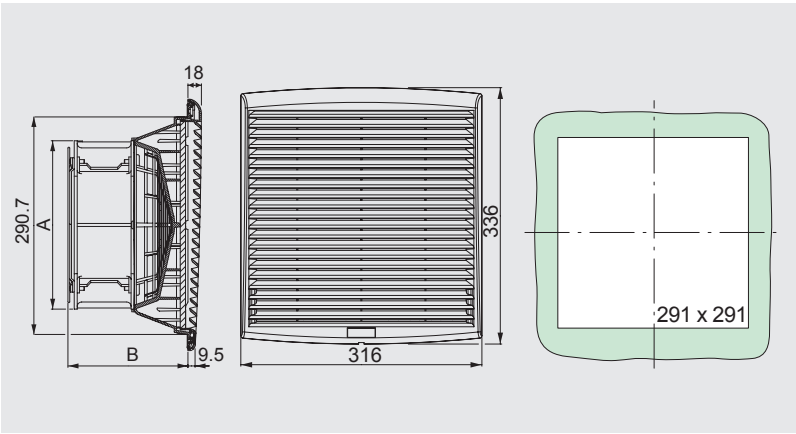


Fan 560-850 m³/h

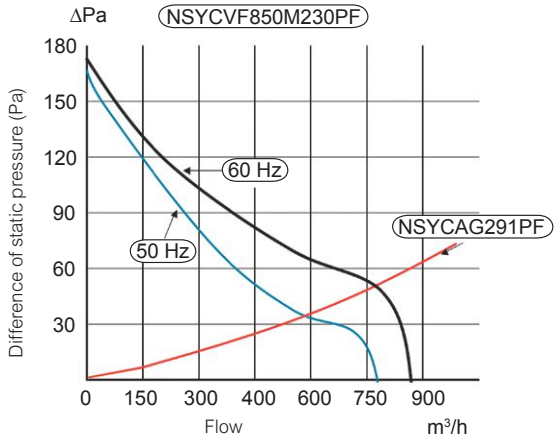
Comment: Adding the Dust Sensor will decrease the flow rate by nearly 5%.

Flow curves





Flow curves



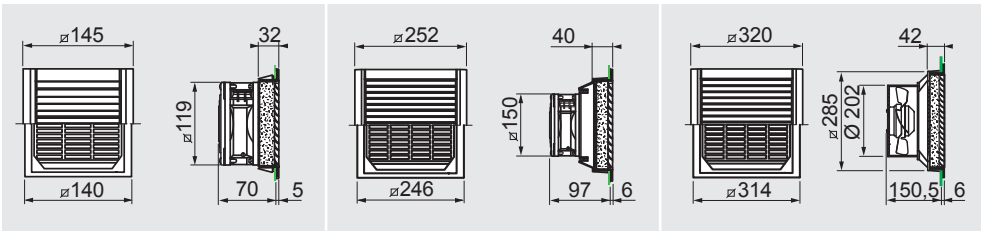
References	A	B
NSYCVF560M230PF	225	160.5
NSYCVF560M115PF	225	160.5
NSYCVF850M230PF	280	162
NSYCVF850M115PF	280	162

12
CV

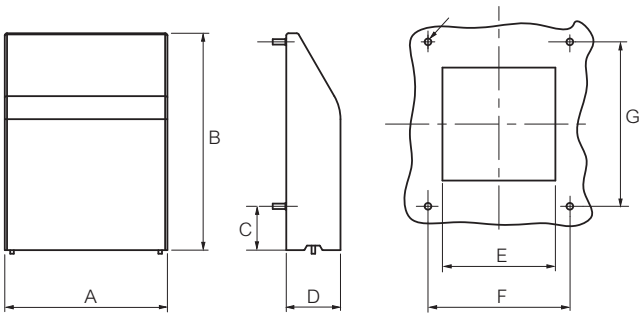
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Thermal management system

EMC IP54 fan



Dimensions of IP54 and EMC covers



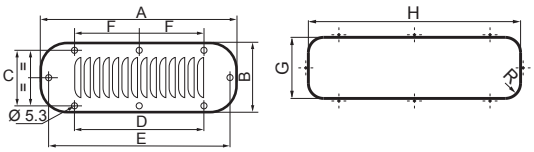
Dimensions (mm)								Cover references		
A	B	C	D	E	F	G	No. of fixing points	IP55		EMC
180	240	49	49	49	157	182	4	**NSYCAP125LZF**	**NSYCAP125LXF**	**NSYCAP125LE**
305	350	61	61	61	283	280	8	**NSYCAP223LZF**	**NSYCAP223LXF**	**NSYCAP223LE**
373	430	73	73	73	351	348	8	**NSYCAP291LZF**	**NSYCAP291LXF**	**NSYCAP291LE**

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Life Is On Schneider Electric

Natural airing

Metal louvre plate, rectangular



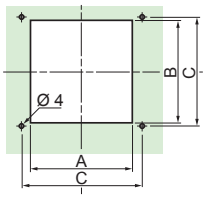
- Material: Steel
- Structured finish, epoxy polyester powder, RAL 7035 grey
- Ingress protection rating (according to IEC 60529): IP20
- Installation: On the sides of the enclosure. Fixing by screws.

Supply:
1 metal louvre and fixing elements


NSYCAG110X46M

Characteristics	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	R (mm)	References
Metal louvre plate, rectangular	144	62	36	110	-	-	110	46	10	**NSYCAG110X46M**
Metal louvre plate, rectangular	208	90	72	94	190	-	180	62	18	**NSYCAG180X62M**
Metal louvre plate, rectangular	244	90	72	130	226	-	216	62	18	**NSYCAG216X62M**
Metal louvre plate, rectangular	345	118	100	231	327	115.5	317	90.5	30	**NSYCAG317X91M**
Metal louvre plate, rectangular	345	148	130	231	327	115.5	317	120	30	**NSYCAG317X120M**
Metal louvre plate, rectangular	445	148	130	267	427	148.5	417	120	30	**NSYCAG417X120M**

Metal louvre plate, square



Supply:
One metal louvre

- Ingress protection rating (according to IEC 60529): IP23


NSYCAG104X95LM

Characteristics	Dimensions (mm)	A (mm)	B (mm)	C (mm)	Slot width (mm)	No. of slots	References
Metal louvre plate, square	120 x 120	95	90	104.8	90	5	**NSYCAG104X95LM**
Metal louvre plate, square	160 x 160	110	130	140	100	5	**NSYCAG130X110LM**
Metal louvre plate, square	220 x 220	190	170	200	180	5	**NSYCAG170X190LM**

Anti-insect filters for metal louvre plate, square

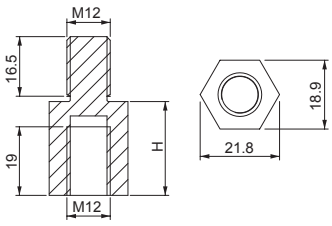
- Material: Stainless steel 304L Ø 0.32 mm wire mesh, of 1.07 mm, thickness 0.6 mm
- Ingress protection rating (according to IEC 60529): IP33
- Installation: Between the enclosure and the metal louvre

Supply:
One anti-insect filter


NSYCAF104X95X

Characteristics	External dimensions (mm)	Weight	References
Anti-insect filters for metal louvre plate, square	98 x 115	0.8 kg/m²	**NSYCAF104X95X**
Anti-insect filters for metal louvre plate, square	133 x 158	0.8 kg/m²	**NSYCAF130X110X**
Anti-insect filters for metal louvre plate, square	197 x 215	0.8 kg/m²	**NSYCAF170X190X**

Roof elevators



Allow the roof to be raised, providing natural airing.
- Material: Zinc-coated steel
- They are screwed onto the structure of SF enclosures at the roof fixing point

Supply:
4 elevators

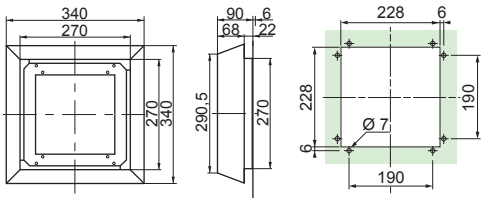

NSYRE26

Characteristics	Top elevation (mm)	References
Roof elevators	26	**NSYRE26**
Roof elevators	60	**NSYRE60**

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Natural airing

Hood for natural airing



Natural airing device for coupling to the top of metal floor-standing enclosures.
Solution for combining with the ventilation slots.

- Material: Steel
- Finish: Structured finish, epoxy polyester powder, RAL 7035 grey
- Ingress protection rating (according to IEC 60529): IP54
- Installation: Fixing to the top by means of caged nuts and special screws

Supply:
1 hood for natural airing and fixing elements


NSYCAC228RMF

Characteristics	Weight	References
Hood for natural airing	4.6 (kg)	**NSYCAC228RMF**
Spare filter	–	**NSYCAF228R**

Plastic ventilation louvres

Four models available according to IP rating, in vertical position.

Supply:
References by unit. Order by multiples of 2 units (2, 4, 6, etc)


NSYCAG45LP


NSYCAG35LP


NSYCAG38LP


NSYCAG33LP


NSYCAG19LP

Characteristics	Ingress protection rating	Cut-out Ø (mm)	References
Plastic ventilation louvres	IP22	45.5	**NSYCAG45LP**
Plastic ventilation louvres	IP30/44	35	**NSYCAG35LP**
Plastic ventilation louvres	IP45	38	**NSYCAG38LP**
Plastic ventilation louvres	IP44	33	**NSYCAG33LP**
	IP45	19	**NSYCAG19LP**

Sealed anti-condensation valve

Controls the pressure to avoid condensation following an internal temperature increase.

- Material: PA6-V2, acrylic co-polymer membrane, water and oil repellent
- Ingress protection rating: IP68
- Temperature of use: -40… +105°C


NSYCAG12LPH2

Characteristics	Cut-out Ø (mm)	Permeability	Pressure difference	Minor pack.	References
Sealed anti-condensation valve	M12	16 litres/h	ΔP < 1 bar	10	**NSYCAG12LPH1**
Sealed anti-condensation valve	M12	120 litres/h	ΔP < 0.1 bar	10	**NSYCAG12LPH2**

12
CA

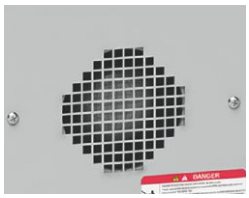
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Thermal management system

Choose air-air exchangers to take advantage of cooler ambient temperatures, such as food and beverage plants, to evacuate large amounts of heat while helping guarantee the independence of the internal and external air circuits.



Air-air exchangers: A new range energy efficient



Higher efficiency through improved design

- With an updated external grill design, and by positioning cooling closer to critical equipment, such as speed drives, ClimaSys now provides better flow, better cooling, and higher energy efficiency



Faster installation

- A number of design improvements reduce installation time. Mounting requires single cut-outs and a minimum of screws. Wiring is accomplished with smart interconnects



Simplicity saves you time

- Our free ProClima thermal calculation software makes specification simple and fast. A new thermal solutions module integrates calculation for cooling and control devices, helping you maximize the energy efficiency of your systems.



Protection

- All side-mounted models are IP55 internally according to EN 60529.



New certifications and declarations

- CE
- EAC

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Life Is On Schneider Electric

Thermal management system

Air-air exchangers, side-mounting models



Characteristics	Side-mounting models			
	• The air-air exchanger can be used in heavily polluted environments provided that the ambient temperature is at least 10°C lower than the internal temperature wanted. • Main components: Thermostat adjustment system, exchange cassette, fans for internal and external circuits of the enclosure.			
Material	Painted zinc-coated steel			
Colour	RAL 7035 grey			
Ingress protection rating (according to IEC 60529)	IP55			
Certifications and declarations	CE, EAC			
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.			
Cooling characteristics				
Specific power	22 W/K	36 W/K	50 W/K	80 W/K
Air flow of the internal circuit (enclosure)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h
Thermostat type	-	Mechanical	Mechanical	Mechanical
Temperature setting range	-	+5 … +60°C	+5 … +60°C	+5 … +60°C
Temperature range external circuit (ambient)	-5 … +55°C	-5 … +55°C	-5 … +55°C	-5 … +55°C
Type of fluid	Air	Air	Air	Air
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Rated Intensity	0.5 A	0.7 A	0.7 A	1.1 A
Power consumption absorved	72 W	160 W	160 W	240 W
Thermal protection recommended (fuse)	T1 A	T1 A	T1 A	T2 A
Physical characteristics				
External dimensions (H x W x D)	413 x 189 x 149 mm	771 x 316 x 103 mm	771 x 316 x 103 mm	1260 x 317 x 148 mm
Protection degree IP internal /external (according to IEC 60529)	IP55 / IP22	IP55 / IP22	IP55 / IP22	IP55 / IP22
Noise level	59 dB	62 dB	62 dB	64 dB
Weight of unit	7 kg	10 kg	10 kg	17 kg
References				
	NSYCEA22E	**NSYCEA36**	**NSYCEA50**	**NSYCEA80**

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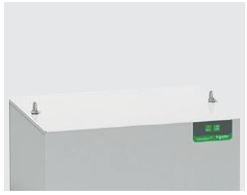
Thermal management system

Choose air-water exchangers for especially difficult environments where there is no external air circuit available but a stable cold-water circuit can be supplied.





Air-water exchangers: For highly polluted environments



Many mounting options give you the right fit

- Air-water exchangers offer roof and side mounting options.

Certifications and declarations

- UL,
- CE.
- EAC

15 kW

Extended ratings to meet any challenge

- Provide options for up to 15 kW of cooling power, among the world's highest power ratings for air-water exchangers.



Protection

- All side -mounting models are IP55 type protected internally and externally according EN 60529. Top-mounting models are IP54.



New material options adapt to any application

- Air-water exchangers can be provided in the same material as electrical enclosures for (for example stainless steel) a homogeneous appearance and thermal performance.

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Thermal management system

Air-water exchangers, side-mounting models



Characteristics	Side-mounting models				
	• Main components: Thermostat adjustment system, Exchange cassette, fans for internal circuits of the enclosure, protection device against possible leaks. • Eyebolts included in all models.				
Material	RAL 7035 grey painted zinc-coated steel or stainless steel				
Ingress protection rating (according to IEC 60529)	IP55				
Certifications and declarations	• CE declaration • UL (only references ending with UL) • EAC				
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.				
Cooling characteristics					
Cooling power W10A35	1000 W	1750 W	2500 W	3500 W	4500 W
Hydraulic circuit maximum pressure	5 bar	5 bar	5 bar	5 bar	5 bar
Internal airflow	330 m³/h	570 m³/h	860 m³/h	1050 m³/h	1450 m³/h
Thermostat type	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Temperature setting range	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
Temperature range external circuit (ambient)	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C
Type of fluid	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water
Water flow	150 l/h	150 l/h	500 l/h	500 l/h	500 l/h
Pressure drop	0.1 bar	0.1 bar	0.3 bar	0.2 bar	0.2 bar
Hydraulic connection	3/8" G	1/2" G	1/2" G	1/2" G	1/2" G
Electric characteristics					
Input voltage	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*
Rated Intensity	0.17 A	0.36 A	0.33 A	0.55 A	0.71 A
Power consumption absorved W10A35	29 W	75 W	80 W	130 W	160 W
Thermal protection recommended (fuse)	T2 A	T2 A	T2 A	T2 A	T2 A
Physical characteristics					
External dimensions (H x W x D)	450 x 310 x 115 mm	901 x 398 x 137 mm	901 x 398 x 137 mm	1148 x 398 x 163 mm	1148 x 398 x 163 mm
Protection degree IP internal / external (according to IEC 60529)	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55
Noise level	55 dB (A)	58 dB (A)	58 dB (A)	64 dB (A)	69 dB (A)
Weight of unit	12 kg	18 kg	19 kg	29 kg	30 kg
References					
Steel	**NSYCEW1K**	**NSYCEW1K8**	**NSYCEW2K5**	**NSYCEW3K5**	**NSYCEW4K5**
Stainless steel	**NSYCEWX1K**	**NSYCEWX1K8**	**NSYCEWX2K5**	**NSYCEWX3K5**	**NSYCEWX4K5**
Steel UL	**NSYCEW1KUL**	**NSYCEW1K8UL**	**NSYCEW2K5UL**	**NSYCEW3K5UL**	**NSYCEW4K5UL**
Stainless steel UL	**NSYCEWX1KUL**	**NSYCEWX1K8UL**	**NSYCEWX2K5UL**	**NSYCEWX3K5UL**	**NSYCEWX4K5UL**

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Thermal management system

Side-mounting model







Characteristics	Side-mounting models		
	• Main components: Thermostat adjustment system, Exchange cassette, fans for internal circuits of the enclosure, protection device against possible leaks. • Eyebolts included in all models.		
Material	RAL 7035 grey painted zinc-coated steel or stainless steel		
Ingress protection rating (according to IEC 60529)	IP55		
Certifications and declarations	• CE declaration • UL (only references ending with UL) • EAC		
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.		
Cooling characteristics			
Cooling power W10A35	6000 W	6000 W	10000 W
Hydraulic circuit maximum pressure	5 bar	8 bar	8 bar
Internal airflow	1450 m³/h	1450 m³/h	2420 m³/h
Thermostat type	Mechanical	Mechanical	Mechanical
Temperature setting range	+20 … +46°C	+20 … +46°C	+20 … +46°C
Temperature range external circuit (ambient)	+1 … +70°C	+1 … +70°C	+1 … +70°C
Type of fluid	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water
Water flow	800 l/h	800 l/h	2000 l/h
Pressure drop	0.5 bar	0.5 bar	3.5 bar
Hydraulic connection	1/2" G	1/2" G	3/4" G
Electric characteristics			
Input voltage	1 x 230 V / 50-60 Hz*	2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Rated Intensity	0.71 A	0.4 A	1.2 A
Power consumption absorved W10A35	160 W	170 W	260 W
Thermal protection recommended (fuse)	T2 A	T1 A	T2 A
Physical characteristics			
External dimensions (H x W x D)	1500 x 450 x 163 mm	1500 x 450 x 163 mm	1932 x 797 x 206 mm
Protection degree IP internal / external (according to IEC 60529)	IP55 / IP55	IP55 / IP55	IP55 / IP55
Noise level	69 dB (A)	69 dB (A)	70 dB (A)
Weight of unit	40 kg	42 kg	90 kg
References			
Steel	**NSYCEW6K**	**NSYCEW6K2P4**	**NSYCEW10K**
Stainless steel	**NSYCEWX6K**	**NSYCEWX6K2P4**	**NSYCEWX10K**
Steel UL	**NSYCEW6KUL**	-	-
Stainless steel UL	**NSYCEWX6KUL**	-	-

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Thermal management system

Side-mounting model			Top Mounting model
			
			Top Mounting model
			IP54
10000 W	15000 W	15000 W	2500 W
8 bar	8 bar	8 bar	5 bar
2420 m³/h	2900 m³/h	2900 m³/h	750 m³/h
Mechanical	Mechanical	Mechanical	Mechanical
+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
+1 … +70°C	+1 … +70°C	+1 … +70°C	+1 … +70°C
Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water	Filtered water or glicolised water
2000 l/h	2000 l/h	2000 l/h	500 l/h
3.5 bar	4.8 bar	4.8 bar	0.3 bar
3/4" G	3/4" G	3/4" G	1/2" G
2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz
0.75 A	1.4 A	0.9 A	0.30 A
280 W	320 W	420 W	65 W
T2 A	T4 A	T2 A	T2 A
1932 x 797 x 206 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	270 x 400 x 542 mm
IP55 / IP55	IP55 / IP55	IP55 / IP55	IP54 / IP55
70 dB (A)	72 dB (A)	70 dB (A)	58 dB (A)
90 kg	92 kg	92 kg	19 kg
NSYCEW10K2P4	**NSYCEW15K**	**NSYCEW15K2P4**	**NSYCEW2K5R**
NSYCEWX10K2P4	**NSYCEWX15K**	**NSYCEWX15K2P4**	-
-	-	-	-
-	-	-	-

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Thermal management system

Accessories





Characteristics	Air-air and air-water exchangers CE		Air-air and air-water exchangers UL / CE		Retrofit panel	
	Steel	Stainless steel	Steel	Stainless steel		
					Panel that enable to mount a new ClimaSys CE units by replacement of old Schneider Electric cooling systems.	
Material					Metal painted	
Colour					RAL 7035 grey	
Supply					1 unit	
References Air- air exchangers					Retrofit panel	Old Schneider Electric cooling system
Side-mounting models	**NSYCEA36**	-	-	-	**NSYCEARTFIT36**	**NSYCEA35W230VL** **NSYCEA35W230VLE**
	NSYCEA50	-	-	-	-	-
	NSYCEA80	-	-	-	**NSYCEARTFIT80**	**NSYCEA70W230VL**
Air-water exchangers						
Side-mounting models	**NSYCEW1K**	**NSYCEWX1K**	**NSYCEW1KUL**	**NSYCEWX1KUL**	-	-
	NSYCEW1K8	**NSYCEWX1K8**	**NSYCEW1K8UL**	**NSYCEWX1K8UL**	-	-
	NSYCEW2K5	**NSYCEWX2K5**	**NSYCEW2K5UL**	**NSYCEWX2K5UL**	**NSYCEWRTFIT2K5**	**NSYCEW2100W230VL**
	NSYCEW3K5	**NSYCEWX3K5**	**NSYCEW3K5UL**	**NSYCEWX3K5UL**	**NSYCEWRTFIT3K5**	**NSYCEW3150W230VL**
	NSYCEW4K5	**NSYCEWX4K5**	**NSYCEW4K5UL**	**NSYCEWX4K5UL**	-	-
	NSYCEW6K	**NSYCEWX6K**	**NSYCEW6KUL**	**NSYCEWX6KUL**	-	-
	NSYCEW6K2P4	**NSYCEWX6K2P4**	-	-	-	-
	NSYCEW10K	**NSYCEWX10K**	-	-	-	-
	NSYCEW10K2P4	**NSYCEWX10K2P4**	-	-	-	-
	NSYCEW15K	**NSYCEWX15K**	-	-	-	-
	NSYCEW15K2P4	**NSYCEWX15K2P4**	-	-	-	-
Top-mounting model	**NSYCEW2K5R**	-	-	-	-	-

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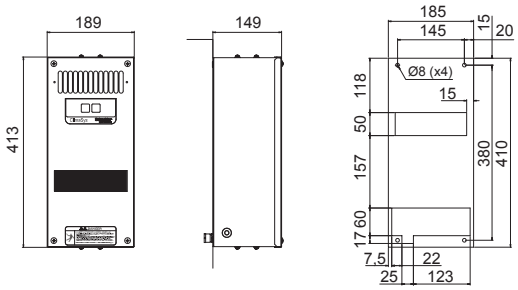
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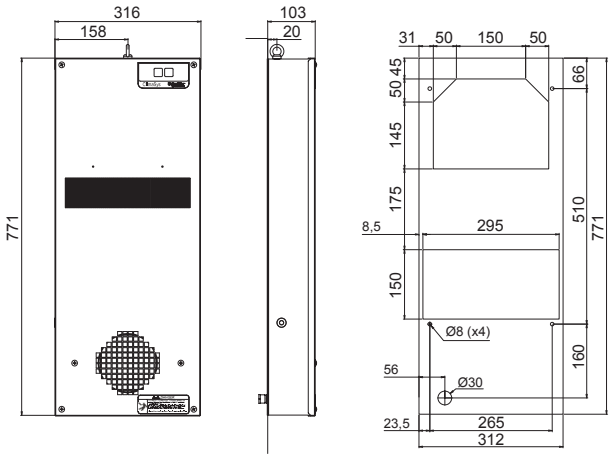
Thermal management system

Air-air exchangers, side-mounting models

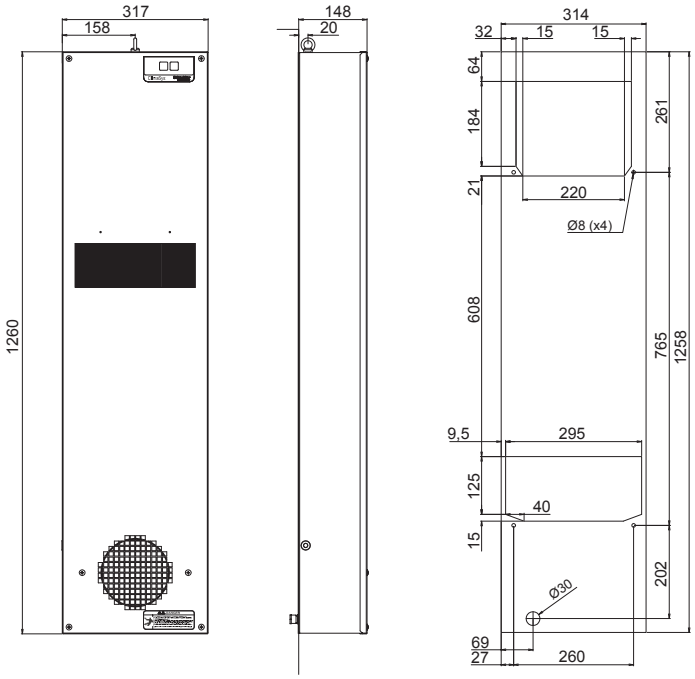
NSYCEA22E



NSYCEA36 / NSYCEA50



NSYCEA80



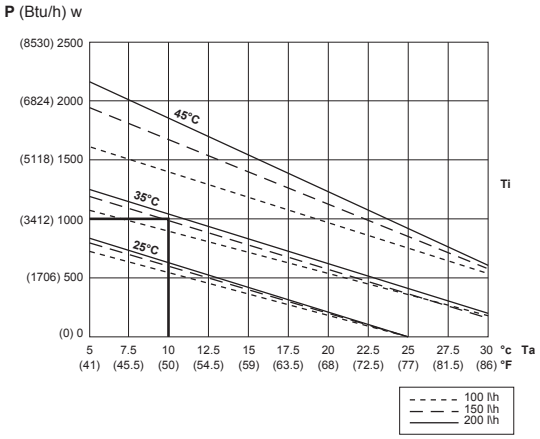
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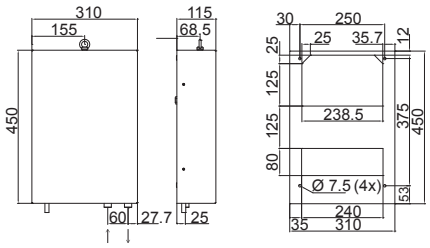
Thermal management system

Air-water exchangers, side-mounting models

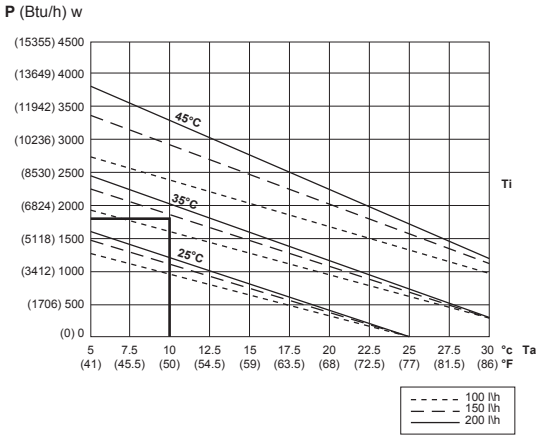
Performance curves



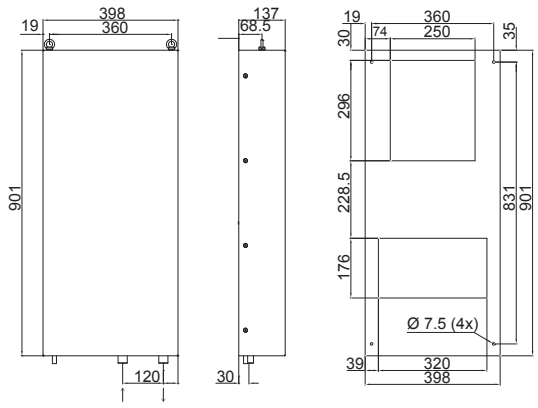
NSYCEW●●1K●●



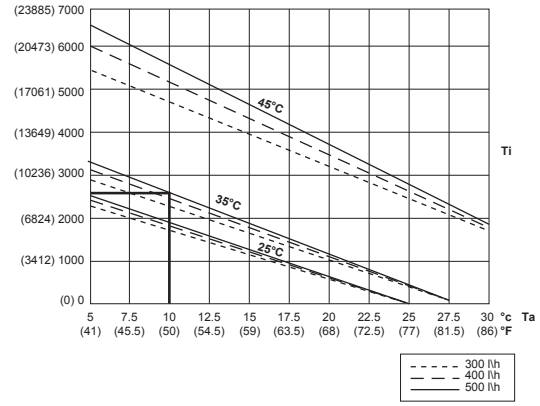
Performance curves



NSYCEW●●1K8●● – NSYCEW●●2K5●●



P (Btu/h) w



P = Cooling power
Ta= Inlet water temperature
Ti= Desired internal temperature of the enclosure

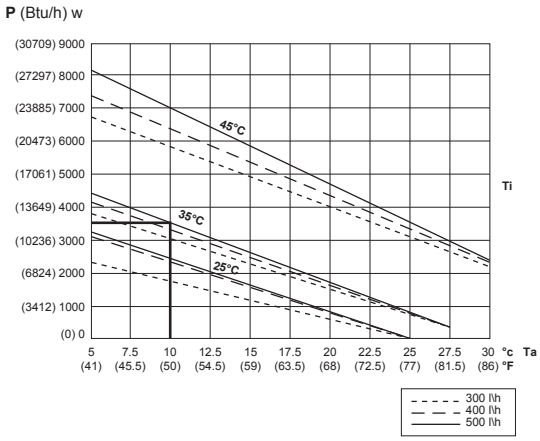
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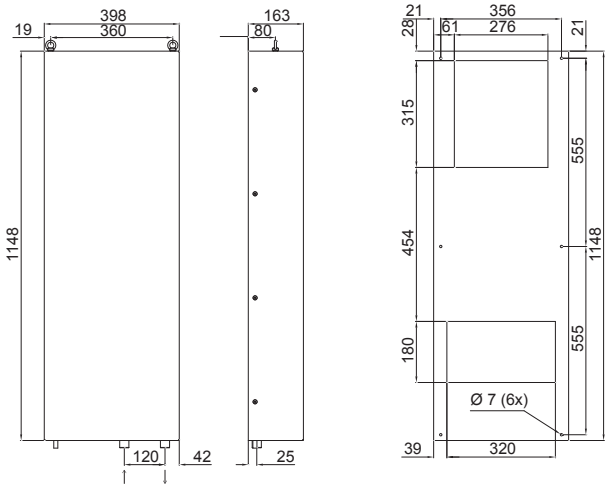
Thermal management system

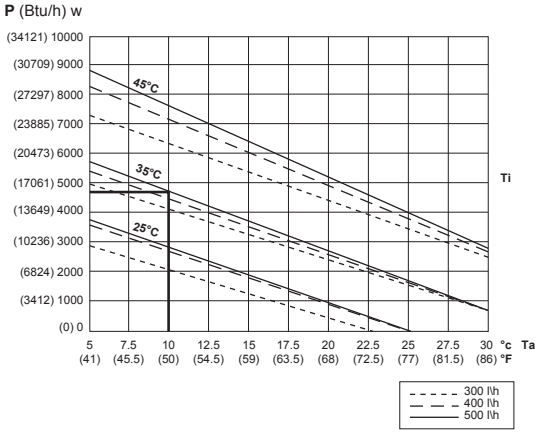
Air-water exchangers, side-mounting models

Performance curves

NSYCEW●●3K5●● – NSYCEW●●4K5●●

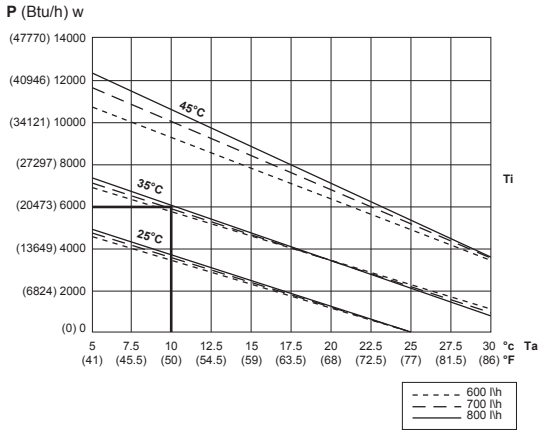


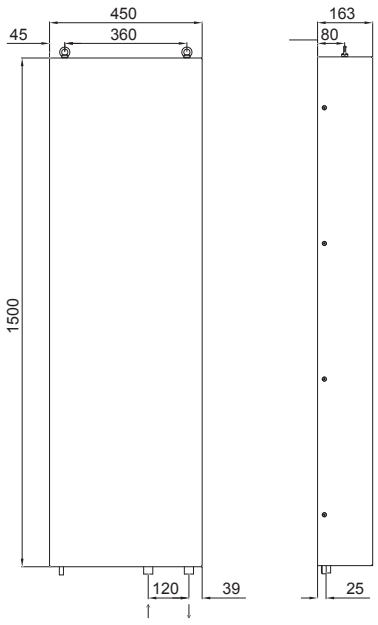


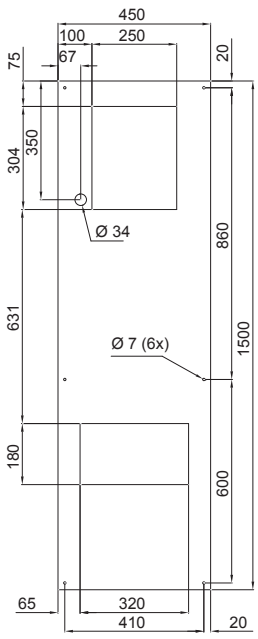


Performance curves

NSYCEW●●6K●●







P = Cooling power
Ta= Inlet water temperature
Ti= Desired internal temperature of the enclosure

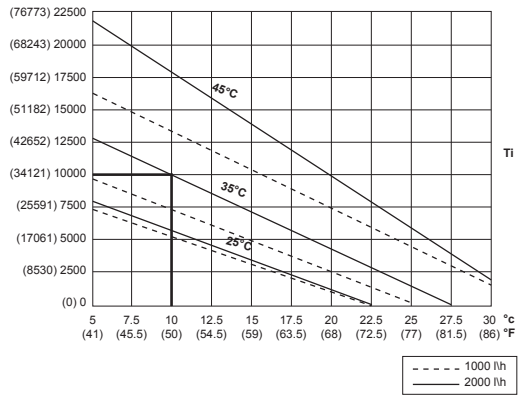
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Thermal management system

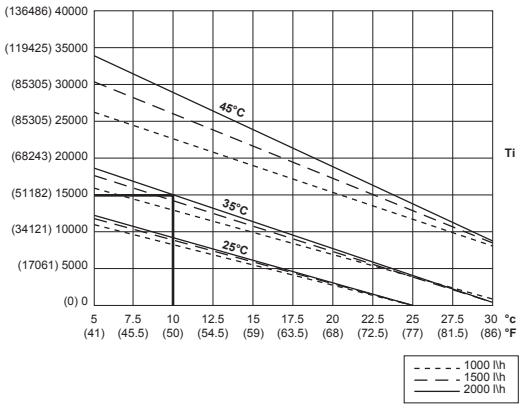
Air-water exchangers, side-mounting models

Performance curves

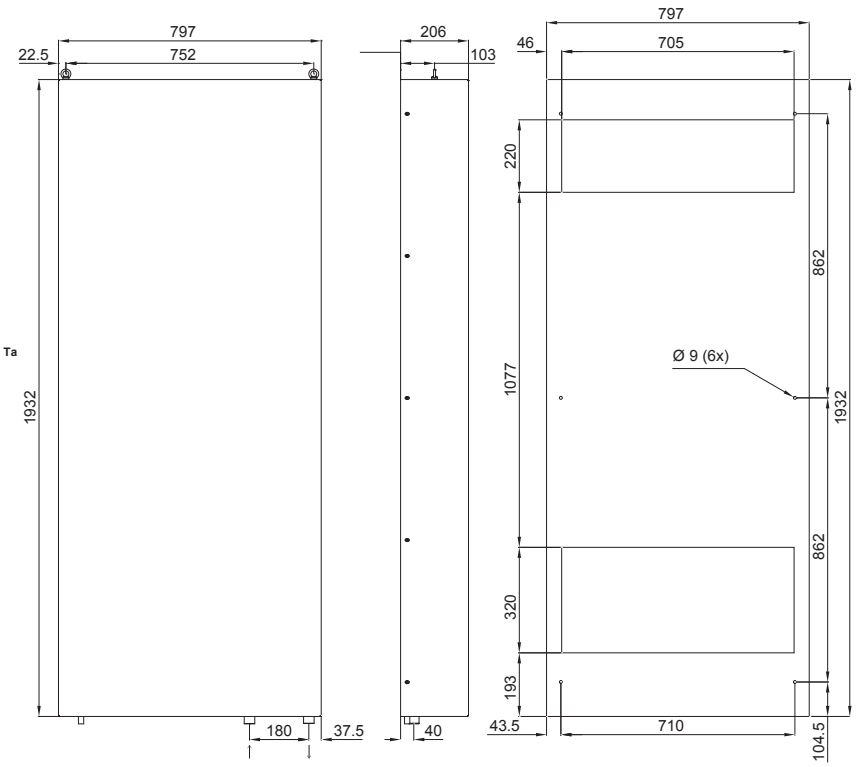
P (Btu/h) w



P (Btu/h) w

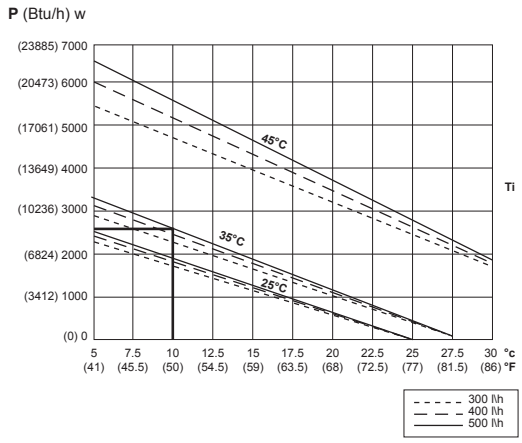


NSYCEW●●3K5●● – NSYCEW●●4K5●●

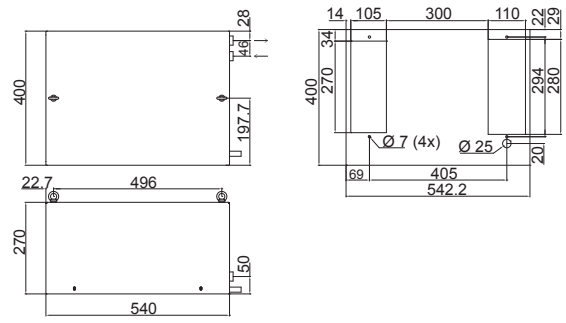


Performance curves

P (Btu/h) w



NSYCEW●●6K●●



P = Cooling power
Ta= Inlet water temperature
Ti= Desired internal temperature of the enclosure

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CU

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Thermal management system

Choose cooling units for harsh environments, where ambient temperatures can reach up to 55°C.
The unit's integrated alarm system will signal you in the event of any operational anomaly.



Cooling units: For a high ambient temperature



Several mounting solutions

- Three models: Roof mode, floor model, side model. There is also a SLIM model which permits a space saving and perfect integration on the doors of control panels.

15 kW

Large range of power levels

- Provide options for up to 15 kW of cooling power.

+/- 1.5°C

Precision of temperature control

- All ClimaSys cooling units are provided with a precise electronic control system by thermostat which gives them high cooling precision (+/- 1.5°C).



Enhanced protection

- An internal grid of a new design helps protect the components and personnel during operation of the equipment while at the same time facilitating cleaning and maintenance.

Broad temperature range for outdoor enclosures

- The outdoor version can withstand extreme environments, with an operating temperature range of -20°C to +55°C.



Speed of access to information

- The new screen offers fast access to the configuration parameters and information from the sensors located in the enclosure (does not apply to heavy-duty outdoor enclosures)

Certifications and declarations

- UL,
- CE.
- EAC



New materials

- Stainless steel and painted galvanized steel for the outside dedicated to clean, hygienic environments such as food and beverage production plants.



Simplicity

- No tools needed to replace the filter. It just takes a few seconds.

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Thermal management system

Cooling units






Characteristics	Side-mounting models			
	• Respect for the environment by using environmentally friendly gas R134a (HFC). • Electronic thermostats in all models. • Alarm signal for door contact included in all models. • Eyebolts included. • The external filter, not included as standard, is strongly recommended for harsh environments. • Digital screen. • Evaporation condensation water unit integrated from 800 W to 15 kW.			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	• CE declaration • UL (only references ending with UL) • EAC			
Installation	Indoor			
Cooling characteristics				
Cooling power L35-L35 according to EN 14511	300 W (1024 Btu/h)	380 W (1297 Btu/h)	640 W (2184 Btu/h)	820 W (2798 Btu/h)
Cooling power L35-L50 according to EN 14511	150 W (512 Btu/h)	240 W (819 Btu/h)	470 W (1604 Btu/h)	680 W (2320 Btu/h)
Air flow of the internal circuit (enclosure)	280 m³/h	280 m³/h	330 m³/h	330 m³/h
Air flow of the external circuit (ambient)	280 m³/h	280 m³/h	570 m³/h	570 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
Maximum outside temperature	+55°C	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*
Temperature range external circuit (ambient)	+5 … +55°C*	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*
Type of cooling gas	R134a	R134a	R134a	R134a
Cooling gas weight	0.13 kg	0.16 kg	0.23 kg	0.23 kg
Maximum pressure cooling circuit	25 bar	26 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
External filter	Optional, see page 591	Optional, see page 591	Optional, see page 591	Optional, see page 591
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**
Starting / Rated Intensity	4.2 A / 1.5 A	6.0 A / 1.6 A	8.1 A / 2.1 A	10.8 A / 2.6 A
Power consumption absorved L35-L35 according to EN 14511	270 W	280 W	400 W	440 W
Power consumption absorved L35-L50 according to EN 14511	310 W	330 W	470 W	490 W
Energy efficiency ratio (EER) L35-L35	1.1	1.4	1.6	1.9
Thermal protection recommended (fuse)	T4 A	T4 A	T6 A	T6 A
Physical characteristics				
External dimensions (H x W x D)	340 x 525 x 135 mm	460 x 285 x 180 mm	606 x 316 x 212 mm	783 x 348 x 215 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	61 dB	60 dB	65 dB	65 dB
Weight of unit	17 kg	17 kg	21 kg	27 kg
References				
Steel	**NSYCU300H**	**NSYCU400**	**NSYCU600**	**NSYCU800**
Stainless steel	-	**NSYCUX400**	**NSYCUX600**	**NSYCUX800**
Steel UL	-	**NSYCU400UL**	**NSYCU600UL**	**NSYCU800UL**
Stainless steel UL	-	-	**NSYCUX600UL**	**NSYCUX800UL**

* 50°C at 60 Hz.
** Certification UL only 60 Hz.

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	1000 W (3412 Btu/h)	1000 W (3412 Btu/h)	1250 W (4265 Btu/h)	1250 W (4265 Btu/h)	1600 W (5459 Btu/h)	1600 W (5459 Btu/h)	2000 W (6824 Btu/h)
	790 W (2696 Btu/h)	790 W (2696 Btu/h)	910 W (3105 Btu/h)	910 W (3105 Btu/h)	1230 W (4197 Btu/h)	1230 W (4197 Btu/h)	1510 W (5152 Btu/h)
	330 m³/h	330 m³/h	570 m³/h	570 m³/h	570 m³/h	570 m³/h	860 m³/h
	570 m³/h	570 m³/h	860 m³/h	860 m³/h	1050 m³/h	1050 m³/h	1050 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*	+55°C	+55°C (+50°C)*	+50°C*	+55°C (+50°C)*
	+5 … +55°C* (+5 … +50°C)*	+5 … +50°C (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*	+5 … +50°C	+5 … +55°C* (+5 … +50°C)*	+5 … +50°C	+5 … +55°C* (+5 … +50°C)*
	R134a	R134a	R134a	R134a	R134a	R134a	R134a
	0.23 kg	0.23 kg	0.38 kg	0.38 kg	0.45 kg	0.45 kg	0.54 kg
	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**	25 bar	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
	Optional, see page 591	Optional, see page 591	Optional, see page 591	Optional, see page 591	Optional, see page 591	Optional, see page 591	Optional, see page 591
	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz 2 x 400-460 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz 2 x 460 V / 60 Hz**	1 x 230 V / 50-60 Hz**
	10.5 A / 3 A	8 A / 2 A	11 A / 3.8 A	8.5 A / 2.8 A	18 A / 5.4 A	11 A / 2.9 A	24 A / 6.5 A
	570 W	590 W	650 W	650 W	850 W	840 W	1080 W
	650 W	670 W	760 W	770 W	970 W	960 W	1290 W
	1.8	1.7	1.9	1.9	1.9	1.9	1.9
	T6 A	T4 A	T6 A	T4 A	T10 A	T6 A	T10 A
	783 x 348 x 215 mm	783 x 348 x 215 (+58) mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	65 dB	65 dB	65 dB	65 dB	65 dB	65 dB	65 dB
	28 kg	29 kg	38 kg	40 kg	40 kg	42 kg	52 kg
	NSYCU1K	**NSYCU1K2P4**	**NSYCU1K2**	**NSYCU1K22P4**	**NSYCU1K6**	**NSYCU1K62P4**	**NSYCU2K**
	NSYCUX1K	**NSYCUX1K2P4**	**NSYCUX1K2**	**NSYCUX1K22P4**	**NSYCUX1K6**	**NSYCUX1K62P4**	**NSYCUX2K**
	NSYCU1KUL	**NSYCU1K2P4UL**	**NSYCU1K2UL**	**-**	**NSYCU1K6UL**	**NSYCU1K62P4UL**	**NSYCU2KUL**
	NSYCUX1KUL	**NSYCUX1K2P4UL**	**NSYCUX1K2UL**	**-**	**NSYCUX1K6UL**	**NSYCUX1K62P4UL**	**NSYCUX2KUL**

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Thermal management system

Cooling units







Characteristics	Side-mounting models			Floor-standing models
	Alarm signal for door contact included in all models. Eyebolts included. The external filter, not included as standard, is strongly recommended for harsh environments.			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	CE declaration UL (only references ending with UL) EAC			
Installation	Indoor			
Cooling characteristics				
Cooling power L35-L35 according to EN 14511	2000 W (6824 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)	5800 W (19790 Btu/h)
Cooling power L35-L50 according to EN 14511	1510 W (5152 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)	4350 W (14843 Btu/h)
Air flow of the internal circuit (enclosure)	860 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
Air flow of the external circuit (ambient)	1050 m³/h	1450 m³/h	1450 m³/h	2900 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C (+45°C)*	+20 … +46°C (+45°C)*	+20 … +46°C (+45°C)*	+20 … +46°C
Maximum outside temperature	+50°C (+45°C)	+50°C (+45°C)	+50°C (+45°C)	+50°C
Temperature range external circuit (ambient)	+5 … +50°C (+5 … +45°C)*	+5 … +50°C (+5 … +45°C)*	+5 … +50°C (+5 … +45°C)*	+10 … +50°C
Type of cooling gas	R134a	R134a	R134a	R407c
Cooling gas weight	0.59 kg	0.84 kg	1.14 kg	1.8 kg
Maximum pressure cooling circuit	25 bar (28 bar)*	25 bar (28 bar)*	25 bar (28 bar)*	27 bar
External filter	Optional, see page 591	Optional, see page 591	Optional, see page 591	Polyurethane filter standard
Electric characteristics				
Input voltage	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50 Hz
Starting / Rated Intensity	10 A / 2.5 A	14 A / 2.6 A	18 A / 3.6 A	21.7 A / 5.9 A
Power consumption absorved L35-L35 according to EN 14511	970 W	1220 W	1780 W	2340 W
Power consumption absorved L35-L50 according to EN 14511	1150 W	1440 W	2050 W	3880 W
Energy efficiency ratio (EER) L35-L35	2.1	2.4	2.2	2.5
Thermal protection recommended (fuse)	T6 A	T6 A	T8 A	T8 A
Physical characteristics				
External dimensions (H x W x D)	999 x 405 x 237 mm	1270 x 500 x 336 mm	1270 x 500 x 336 mm	2000 x 600 x 380 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP54 / IP34
Noise level	65 dB	70 dB	70 dB	72 dB
Weight of unit	54 kg	84 kg	85 kg	150 kg
References				
Steel	**NSYCU2K3P4**	**NSYCU3K3P4**	**NSYCU4K3P4**	**NSYCU6K3P4**
Stainless steel	**NSYCUX2K3P4**	**NSYCUX3K3P4**	**NSYCUX4K3P4**	-
Steel UL	**NSYCU2K3P4UL**	**NSYCU3K3P4UL**	**NSYCU4K3P4UL**	-
Stainless steel UL	**NSYCUX2K3P4UL**	**NSYCUX3K3P4UL**	**NSYCUX4K3P4UL**	-

* Certification UL only 60 Hz..

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	6050 W (20643 Btu/h)	7600 W (25932 Btu/h)	7950 W (27126 Btu/h)	9400 W (32074 Btu/h)	9850 W (33610 Btu/h)	14800 W (50500 Btu/h)	15150 W (51694 Btu/h)
	4350 W (14843 Btu/h)	5700 W (19449 Btu/h)	5930 W (20234 Btu/h)	7000 W (23885 Btu/h)	7350 W (25079 Btu/h)	11300 W (38557 Btu/h)	11600 W (39581 Btu/h)
	1450 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	4300 m³/h	4300 m³/h
	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	5800 m³/h	5800 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+50°C	+50°C	+50°C	+50°C	+50°C	+55°C	+55°C
	+10 … +50°C	+10 … +50°C	+10 … +50°C	+10 … +45°C	+10 … +45°C	+10 … +50°C	+10 … +50°C
	R407c	R134a	R134a	R134a	R134a	R410a	R410a
	1.8 kg	2.8 kg	2.8 kg	2.3 kg	2.3 kg	3.5 kg	3.5 kg
	27 bar	27 bar	27 bar	27 bar	27 bar	39 bar	39 bar
	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard
	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz
	23.5 A / 6.8 A	43.8 A / 7.2 A	44.5 A / 7.9 A	30.7 A / 9.1 A	32.5 A / 10.3 A	49 A / 11 A	51 A / 11.8 A
	2920 W	3530 W	4210 W	3850 W	4380 W	5750 W	6580 W
	4520 W	4270 W	5340 W	5400 W	6340 W	6900 W	7760 W
	2.1	2.2	1.9	2.4	2.2	2.6	2.3
	T8 A	T10 A	T10 A	T18 A	T18 A	T20 A	T20 A
	2000 x 600 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 550 mm	2000 x 800 x 550 mm
	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34
	72 dB	72 dB	72 dB	77 dB	77 dB	67 dB	67 dB
	150 kg	160 kg	160 kg	180 kg	180 kg	240 kg	240 kg
	NSYCU6K3P460	**NSYCU8K3P4**	**NSYCU8K3P460**	**NSYCU10K3P4**	**NSYCU10K3P460**	**NSYCU15K3P4**	**NSYCU15K3P460**
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
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Thermal management system

Cooling units





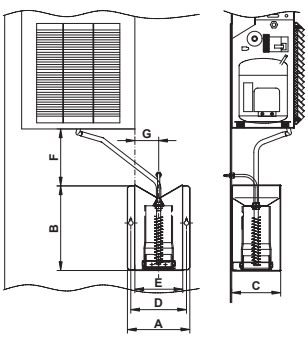
Characteristics	Roof-mounting models		
	• Respect for the environment by using environmentally friendly gas R134a (HFC). • Integrated water condensation exit system. • Alarm signal for door contact included in all models. • Eyebolts included. • The external filter, not included as standard, is strongly recommended for harsh environments.		
Material	RAL 7035 grey painted zinc-coated steel or stainless steel.		
Certifications and declarations	• CE declaration • UL (only references ending with UL) • EAC		
Installation	Indoor		
Cooling characteristics			
Cooling power L35-L35 according to EN 14511	410 W (1399 Btu/h)	820 W (2798 Btu/h)	1150 W (3924 Btu/h)
Cooling power L35-L50 according to EN 14511	240 W (819 Btu/h)	680 W (2320 Btu/h)	900 W (3071 Btu/h)
Air flow of the internal circuit (enclosure)	235 m³/h	570 m³/h	570 m³/h
Air flow of the external circuit (ambient)	330 m³/h	860 m³/h	1010 m³/h
Thermostat type	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C	+20 … +46°C	+20 … +46°C
Maximum outside temperature	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*
Temperature range external circuit (ambient)	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C* (+5 … +50°C)*
Type of cooling gas	R134a	R134a	R134a
Cooling gas weight	0.17 kg	0.31 kg	0.63 kg
Maximum pressure cooling circuit	28 bar	25 bar (28 bar)**	25 bar (28 bar)**
External filter	Optional, see page 591	Optional, see page 591	Optional, see page 591
Electric characteristics			
Input voltage	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**
Starting / Rated Intensity	4 A / 1.5 A	12 A / 2.9 A	11 A / 3.2 A
Power consumption absorved L35-L35 according to EN 14511	230 W	510 W	550 W
Power consumption absorved L35-L50 according to EN 14511	290 W	560 W	660 W
Energy efficiency ratio (EER) L35-L35	1.8	1.6	2.1
Thermal protection recommended (fuse)	T4 A	T6 A	T6 A
Physical characteristics			
External dimensions (H x W x D)	264 x 486 x 259 mm	340 x 600 x 340 mm	415 x 567 x 401 mm
Protection degree IP internal /external according to IEC 60529	IP54 / IP34	IP54 / IP34	IP54 / IP34
Noise level	65 dB	65 dB	65 dB
Weight of unit	18 kg	23 kg	40 kg
References			
Steel	**NSYCU400R**	**NSYCU800R**	**NSYCU1K2R**
Stainless steel	**NSYCUX400R**	**NSYCUX800R**	**NSYCUX1K2R**
Steel UL	**NSYCU400RUL**	**NSYCU800RUL**	**NSYCU1K2RUL**

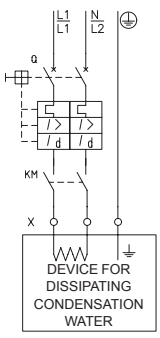
* 50°C at 60 Hz.
** Certification UL only 60 Hz.
*** For cooling units greater than 65 kg we recommend to place universal cross rails NSYSUCR4060 or NSYSUCR4080.

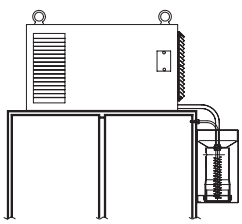
Device for dissipating condensation water (external installation)

- Device allowing the evacuation of condensation water from the internal battery (evaporator).
- Supplied with stainless steel support.
- Power supply:

Operating voltage ±10%				
Voltage	Starting current	Thermal protection recommended	Evaporation capacity	Resistance type
230 V~	2.9 A	T 3 A	200 cl/h	PTC
115 V~	5.8 A	T 6 A	200 cl/h	PTC







Heat sink

NSYCUAD

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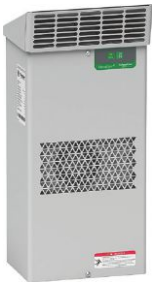
	1550 W (5289 Btu/h)	2050 W (6995 Btu/h)	2050 W (6995 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)
	1200 W (4095 Btu/h)	1560 W (5323 Btu/h)	1560 W (5323 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)
	860 m³/h	1050 m³/h	1050 m³/h	860 m³/h	1450 m³/h
	1820 m³/h	1820 m³/h	1820 m³/h	3410 m³/h	3410 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+55°C	+55°C (+50°C)**	+50°C (+45°C)**	+50°C (+45°C)**	+50°C (+45°C)**
	+5 … +55°C* (+5 … +50°C)*	+5 … +55°C*	+5 … +50°C (+5 … +45°C)**	+5 … +50°C (+5 … +45°C)**	+5 … +50°C (+5 … +45°C)**
	R134a	R134a	R134a	R134a	R134a
	0.54 kg	0.55 kg	0.55 kg	1.20 kg	1.60 kg
	25 bar (28 bar)**	25 bar	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
	Optional, see page 591	Optional, see page 591	Optional, see page 591	Optional, see page 591	Optional, see page 591
	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*
	18 A / 4.5 A	24 A / 6 A	10 A / 1.9 A	15.7 A / 2.5 A	17 A / 3.6 A
	810 W	1150 W	990 W	1210 W	1790 W
	930 W	1250 W	1190 W	1450 W	2010 W
	1.9	1.8	2.1	2.4	2.2
	T10 A	T10 A	T6 A	T6 A	T6 A
	415 x 567 x 401 mm	415 x 567 x 401 mm	415 x 567 x 401 mm	496 x 797 x 492 mm	496 x 797 x 492 mm
	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34
	65 dB	65 dB	65 dB	75 dB	75 dB
	44 kg	50 kg	52 kg	83 kg***	86 kg***
	NSYCU1K5R	**NSYCU2KR**	**NSYCU2K3P4R**	**NSYCU3K3P4R**	**NSYCU4K3P4R**
	NSYCUX1K5R	**NSYCUX2KR**	**NSYCUX2K3P4R**	**NSYCUX3K3P4R**	**NSYCUX4K3P4R**
	NSYCU1K5RUL	**-**	**NSYCU2K3P4RUL**	**NSYCU3K3P4RUL**	**NSYCU4K3P4RUL**

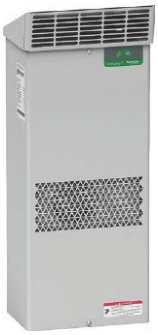
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Thermal management system

Outdoor Heavy Duty cooling units







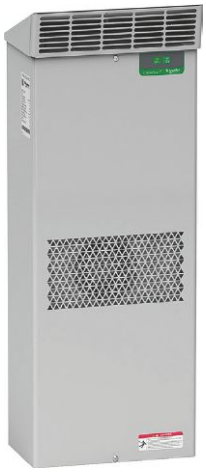
Characteristics	Side-mounting models		
	• Respect for the environment by using environmentally friendly gas R134a (HFC). • Mechanical thermostats in all models. • Eyebolts included. • The external filter, not included as standard. The metallic filter is strongly recommended. • Metalic canopy as standard. • Anti-corrosive protection (class C3H). • Inside components, including the condenser, coated with anti-corrosive protection.		
Material	RAL 7035 grey painted zinc-coated steel		
Certifications and declarations	• CE declaration • EAC		
Installation	Indoor or outdoor		
Cooling characteristics			
Cooling power L35-L35 according to EN 14511	380 W (1297 Btu/h)	640 W (2184 Btu/h)	820 W (2798 Btu/h)
Cooling power L35-L50 according to EN 14511	240 W (819 Btu/h)	470 W (1604 Btu/h)	680 W (2320 Btu/h)
Air flow of the internal circuit (enclosure)	280 m³/h	330 m³/h	330 m³/h
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	570 m³/h
Thermostat type	Mechanic	Mechanic	Mechanic
Temperature range internal circuit (enclosure)	+20 … +50°C	+20 … +50°C	+20 … +50°C
Maximum outside temperature	+55°C	+55°C	+55°C
Temperature range external circuit (ambient)	-20 … +55°C	-20 … +55°C	-20 … +55°C
Type of cooling gas	R134a	R134a	R134a
Cooling gas weight	0.16 kg	0.26 kg	0.28 kg
Maximum pressure cooling circuit	26 bar	25 bar	25 bar
External filter	Optional, see metalic filter on page 591	Optional, see metalic filter on page 591	Optional, see metalic filter on page 591
Electric characteristics			
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Starting / Rated Intensity	6.0 A / 1.6 A	8.1 A / 2.1 A	10.8 A / 2.6 A
Power consumption absorved L35-L35 according to EN 14511	280 W	400 W	440 W
Power consumption absorved L35-L50 according to EN 14511	330 W	470 W	490 W
Energy efficiency ratio (EER) L35-L35	1.4	1.6	1.9
Thermal protection recommended (fuse)	T4 A	T6 A	T6 A
Physical characteristics			
External dimensions (H x W x D)	573 x 300 x 205 mm	718 x 331 x 235 mm	875 x 363 x 239 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	60 dB	65 dB	65 dB
Weight of unit	17 kg	21 kg	27 kg
References			
	NSYCUHD400	**NSYCUHD600**	**NSYCUHD800**

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Life Is On Schneider Electric







1000 W (3412 Btu/h)	1000 W (3412 Btu/h)	1600 W (5459 Btu/h)	1600 W (5459 Btu/h)	2000 W (6824 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)
790 W (2696 Btu/h)	790 W (2696 Btu/h)	1230 W (4197 Btu/h)	1230 W (4197 Btu/h)	1510 W (5152 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)
330 m³/h	330 m³/h	570 m³/h	570 m³/h	860 m³/h	1450 m³/h	1450 m³/h
570 m³/h	570 m³/h	1050 m³/h	1050 m³/h	1050 m³/h	1450 m³/h	1450 m³/h
Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic
+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C	+20 … +50°C
+55°C	+55°C	+55°C	+55°C	+55°C	+55°C	+55°C
-20 … +55°C	-20 … +50°C	-20 … +55°C	-20 … +50°C	-20 … +55°C	-20 … +50°C	-20 … +50°C
R134a	R134a	R134a	R134a	R134a	R134a	R134a
0.27 kg	0.27 kg	0.46 kg	0.46 kg	0.65 kg	0.84 kg	1.14 kg
25 bar	25 bar	25 bar	25 bar	25 bar	25 bar	25 bar
Optional, see metalic filter on page 591	Optional, see metalic filter on page 591	Optional, see metalic filter on page 591	Optional, see metalic filter on page 591	Optional, see metalic filter on page 591	Optional, see metalic filter on page 591	Optional, see metalic filter on page 591
1 x 230 V / 50-60 Hz	2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440 V / 50-60 Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz
10.5 A / 3 A	8 A / 2 A	18 A / 5.3 A	11 A / 2.9 A	10 A / 2.5 A	14 A / 2.6 A	18 A / 3.6 A
570 W	590 W	820 W	840 W	970 W	1220 W	1780 W
650 W	670 W	940 W	960 W	1150 W	1440 W	2050 W
1.8	1.7	2.0	1.9	2.1	2.4	2.2
T6 A	T4 A	T10 A	T6 A	T6 A	T6 A	T8 A
895 x 363 x 239 mm	895 x 363 x 239 (+58) mm	1009 x 415 x 261 mm	1009 x 415 x 261 mm	1009 x 415 x 261 mm	1416 x 512 x 365 mm	1416 x 512 x 365 mm
IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
65 dB	65 dB	65 dB	65 dB	65 dB	70 dB	70 dB
28 kg	29 kg	40 kg	42 kg	54 kg	84 kg	85 kg
NSYCUHD1K	**NSYCUHD1K2P4**	**NSYCUHD1K6**	**NSYCUHD1K62P4**	**NSYCUHD2K3P4**	**NSYCUHD3K3P4**	**NSYCUHD4K3P4**

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Thermal management system

Slim cooling units



Characteristics	Side-mounting models			
	• Respect for the environment by using environmentally friendly gas R134a (HFC). • Electronical thermostat included. • 3 mounting positions (surface, half-flush and flush). • Alarm Signal for contact door. • Eyebolts included.			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	• CE declaration • UL • EAC			
Installation	• Indoor • There is one unique cut-out for all mounting positions and all slim models			
Cooling characteristics				
Cooling power L35-L35 according to EN 14511	1100 W (3753 Btu/h)	1100 W (3753 Btu/h)	1500 W (5118 Btu/h)	1500 W (5118 Btu/h)
Cooling power L35-L50 according to EN 14511	860 W (2934 Btu/h)	860 W (2934 Btu/h)	1150 W (3924 Btu/h)	1150 W (3924 Btu/h)
Air flow of the internal circuit (enclosure)	860 m³/h	860 m³/h	860 m³/h	860 m³/h
Air flow of the external circuit (ambient)	860 m³/h	860 m³/h	860 m³/h	860 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
Maximum outside temperature	+50°C	+50°C	+50°C	+50°C
Temperature range external circuit (ambient)	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C
Type of cooling gas	R134a	R134a	R134a	R134a
Cooling gas weight	0.5 kg	0.5 kg	0.46 kg	0.46 kg
Maximum pressure cooling circuit	28 bar	28 bar	28 bar	28 bar
External circuit filter	Optional, see page 591	Optional, see page 591	Optional, see page 591	Optional, see page 591
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz*	2 x 400-460 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	2 x 400-460 V / 50-60 Hz*
Starting / Rated Intensity	11 A / 4.8 A	8.5 A / 2.7 A	18 A / 5.7 A	11 A / 3.2 A
Power consumption absorved L35-L35 according to EN 14511	660 W	660 W	840 W	840 W
Power consumption absorved L35-L50 according to EN 14511	790 W	790 W	970 W	970 W
Energy efficiency ratio (EER) L35-L35	1.7	1.7	1.8	1.8
Thermal protection recommended (fuse)	T6 A	T4 A	T10 A	T6 A
Physical characteristics				
External dimensions (H x W x D)	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 195 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	64 dB	64 dB	66 dB	66 dB
Weight of unit	50 kg	52 kg	55 kg	57 kg
References				
Steel UL	**NSYCUS1K1UL**	**NSYCUS1K12P4UL**	**NSYCUS1K5UL**	**NSYCUS1K52P4UL**
Stainless steel UL	**NSYCUSX1K1UL**	**NSYCUSX1K12P4UL**	**NSYCUSX1K5UL**	**NSYCUSX1K52P4UL**

* Certification UL only 60 Hz.

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	2000 W (6824 Btu/h)	2000 W (6824 Btu/h)	2500 W (8530 Btu/h)	2500 W (8530 Btu/h)	3200 W (10919 Btu/h)	3200 W (10919 Btu/h)
	1550 W (5289 Btu/h)	1550 W (5289 Btu/h)	1850 W (6312 Btu/h)	1850 W (6312 Btu/h)	2500 W (8530 Btu/h)	2500 W (8530 Btu/h)
	860 m³/h	860 m³/h	1450 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
	1050 m³/h	1050 m³/h	1450 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C	+20 … +46°C
	+50°C	+50°C	+50°C	+50°C	+50°C	+50°C
	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C	+5 … +50°C
	R134a	R134a	R134a	R134a	R134a	R134a
	0.51 kg	0.59 kg	1.2 kg	1.2 kg	0.85 kg	1.25 kg
	28 bar	28 bar	28 bar	28 bar	28 bar	28 bar
	Optional, see page 591	Optional, see page 591	Optional, see page 591	Optional, see page 591	Optional, see page 591	Optional, see page 591
	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*
	24 A / 6.5 A	10 A / 2.1 A	35 A / 10.5 A	14 A / 2.9 A	37 A / 10.5 A	18 A / 3.1 A
	1020 W	1060 W	1340 W	1270 W	1720 W	1650 W
	1160 W	1270 W	1580 W	1510 W	2000 W	1980 W
	2.0	1.9	1.9	2.0	1.9	1.9
	T10 A	T6 A	T16 A	T6 A	T16 A	T6 A
	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	67 dB	67 dB	69 dB	69 dB	69 dB	69 dB
	63 kg	65 kg	80 kg	82 kg	81 kg	83 kg
	NSYCUS2KUL	**NSYCUS2K3P4UL**	**NSYCUS2K5UL**	**NSYCUS2K53P4UL**	**NSYCUS3K2UL**	**NSYCUS3K23P4UL**

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Thermal management system

Accessories

Characteristics	Cooling units IEC			Cooling units UL	
	Steel	Stainless steel	Outdoor	Steel	Stainless steel
Material					
Colour					
Installation					
Supply					
References Cooling units					
Side-mounting models	NSYCU300H	-	-	-	-
	NSYCU400	NSYCUX400	NSYCUHD400	NSYCU400UL	-
	NSYCU600	NSYCUX600	NSYCUHD600	NSYCU600UL	NSYCUX600UL
	NSYCU800	NSYCUX800	NSYCUHD800	NSYCU800UL	NSYCUX800UL
	NSYCU1K	NSYCUX1K	NSYCUHD1K	NSYCU1KUL	NSYCUX1KUL
	NSYCU1K2P4	NSYCUX1K2P4	NSYCUHD1K2P4	NSYCU1K2P4UL	NSYCUX1K2P4UL
	NSYCU1K2	NSYCUX1K2	-	NSYCU1K2UL	NSYCUX1K2UL
	NSYCU1K22P4	NSYCUX1K22P4	-	-	-
	NSYCU1K6	NSYCUX1K6	NSYCUHD1K6	NSYCU1K6UL	NSYCUX1K6UL
	NSYCU1K62P4	NSYCUX1K62P4	NSYCUHD1K62P4	NSYCU1K62P4UL	NSYCUX1K62P4UL
	NSYCU2K	NSYCUX2K	-	NSYCU2KUL	NSYCUX2KUL
	NSYCU2K3P4	NSYCUX2K3P4	NSYCUHD2K3P4	NSYCU2K3P4UL	NSYCUX2K3P4UL
	NSYCU3K3P4	NSYCUX3K3P4	NSYCUHD3K3P4	NSYCU3K3P4UL	NSYCUX3K3P4UL
	NSYCU4K3P4	NSYCUX4K3P4	NSYCUHD4K3P4	NSYCU4K3P4UL	NSYCUX4K3P4UL
Floor-standing models	NSYCU6K3P4	-	-	-	-
	NSYCU6K3P460	-	-	-	-
	NSYCU8K3P4	-	-	-	-
	NSYCU8K3P460	-	-	-	-
	NSYCU10K3P4	-	-	-	-
	NSYCU10K3P460	-	-	-	-
	NSYCU15K3P4	-	-	-	-
	NSYCU15K3P460	-	-	-	-
Roof-mounting model	NSYCU400R	NSYCUX400R	-	NSYCU400RUL	-
	NSYCU800R	NSYCUX800R	-	NSYCU800RUL	-
	NSYCU1K2R	NSYCUX1K2R	-	NSYCU1K2RUL	-
	NSYCU1K5R	NSYCUX1K5R	-	NSYCU1K5RUL	-
	NSYCU2K3P4R	NSYCUX2K3P4R	-	NSYCU2K3P4RUL	-
	NSYCU2KR	NSYCUX2KR	-	-	-
	NSYCU3K3P4R	NSYCUX3K3P4R	-	NSYCU3K3P4RUL	-
	NSYCU4K3P4R	NSYCUX4K3P4R	-	NSYCU4K3P4RUL	-
Slim model	-	-	-	NSYCUS1K1UL	NSYCUSX1K1UL
	-	-	-	NSYCUS1K12P4UL	NSYCUSX1K12P4UL
	-	-	-	NSYCUS1K5UL	NSYCUSX1K5UL
	-	-	-	NSYCUS1K52P4UL	NSYCUSX1K52P4UL
	-	-	-	NSYCUS2KUL	NSYCUSX2KUL
	-	-	-	NSYCUS2K3P4UL	NSYCUSX2K3P4UL
	-	-	-	NSYCUS2K5UL	NSYCUSX2K5UL
	-	-	-	NSYCUS2K53P4UL	NSYCUSX2K53P4UL
	-	-	-	NSYCUS3K2UL	NSYCUSX3K2UL
	-	-	-	NSYCUS3K23P4UL	NSYCUSX3K23P4UL

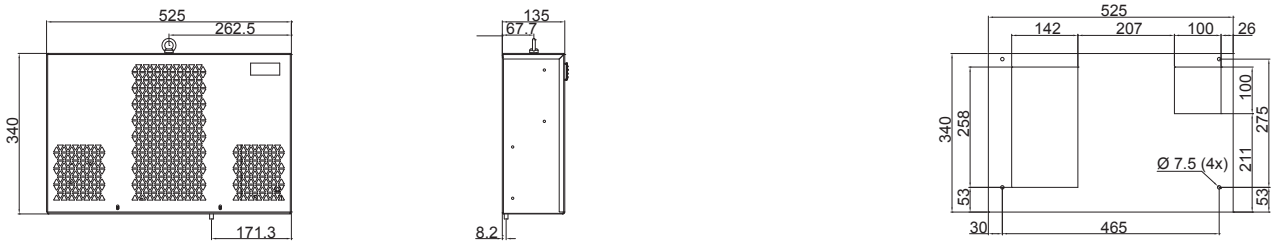
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	Filters		**Canopy for ClimaSys CU**	**Internal deflector**	**Retrofit panel**	
	Plastic filter not recommended for outdoor models.	Metalic filter recommended for outdoor models.	This canopy is highly recommended for harsh indoor environments to protect from ingress of dust.	Deflects the air inside the enclosure.	Panel that enable to mount a new ClimaSys CU units by replacement of old Schneider Electric cooling systems.	
	Polyurethane	Micro-stretched aluminium	Painted zinc coated	Zinc coated	Metal painted	
	Black	-	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	
	Indoor	Indoor or outdoor	Indoor	Indoor or outdoor	Indoor	
	5 units	1 unit	1 unit	1 unit with fixing elements	1 unit	
						Old Schneider Electric cooling system
	-	-	-	-	-	-
	NSYCUF400	**NSYCUFX400**	**NSYCUCN400HD**	**NSYCUD400**	**NSYCURFT400**	**NSYCU240W230VL** **NSYCU370W230VL**
	NSYCUF600	**NSYCUFX600**	**NSYCUCN600HD**	**NSYCUD600**	-	-
	NSYCUF800T1K	**NSYCUFX800T1K**	**NSYCUCN800T1KHD**	**NSYCUD800T1K**	**NSYCURFT800T1K**	**NSYCU760W230VL**
	NSYCUF800T1K	**NSYCUFX800T1K**	**NSYCUCN800T1KHD**	**NSYCUD800T1K**	**NSYCURFT800T1K**	**NSYCUE1100W230L**
	NSYCUF800T1K	**NSYCUFX800T1K**	**NSYCUCN800T1KHD**	**NSYCUD1K2T2K**	**NSYCURFT800T1K**	**NSYCU1K**
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	-	-
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	-	-
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	**NSYCURFT1K6T2K**	**NSYCUE1400W230L** **NSYCU1650W230VL**
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	**NSYCURFT1K6T2K**	**NSYCUE1400W400L**
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	-	-
	NSYCUF1KT2K	**NSYCUFX1K2T2K**	**NSYCUCN1K2T2KHD**	**NSYCUD1K2T2K**	**NSYCURFT1K6T2K**	**NSYCU1800W400VL** **NSYCUE1800W400L**
	NSYCUF3KT4K	**NSYCUFX3KT4K**	**NSYCUCN3KT4KHD**	**NSYCUD3KT4K**	**NSYCURFT3KT4K**	**NSYCU2500W400VL**
	NSYCUF3KT4K	**NSYCUFX3KT4K**	**NSYCUCN3KT4KHD**	**NSYCUD3KT4K**	**NSYCURFT3KT4K**	**NSYCU4000W400VL**
	NSYCUF6K	**NSYCUFX6K**	-	-	-	-
	NSYCUF6K	**NSYCUFX6K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF8KT10K	**NSYCUFX8KT10K**	-	-	-	-
	NSYCUF15K	**NSYCUFX15K**	-	-	-	-
	NSYCUF15K	**NSYCUFX15K**	-	-	-	-
	NSYCUF400R	**NSYCUFX400R**	-	-	-	-
	NSYCUF800R	**NSYCUFX800R**	-	-	**NSYCURFT800R**	**NSYCU760W230VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	**NSYCURFT1K2T2K**	**NSYCU1050W230VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	**NSYCURFT1K2T2K**	**NSYCUE1400W230R** **NSYCU1460W230VR** **NSYCU1650W230VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	**NSYCURFT1K2T2K**	**NSYCUE1800W400R** **NSYCU2000W400VR**
	NSYCUF1K2T2KR	**NSYCUFX1K2T2KR**	-	-	-	-
	NSYCUF3KT4KR	**NSYCUFX3KT4KR**	-	-	**NSYCURFT3K**	**NSYCU2450W400VR** **NSYCU3100W400VR**
	NSYCUF3KT4KR	**NSYCUFX3KT4KR**	-	-	-	-
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1100W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1100W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1500W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB1500W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2200W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2200W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W400S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W230S**
	NSYCUF1K1T2KS	**NSYCUFX1K1T2KS**	-	**NSYCUD1K1T1K5**	-	**NSYCUB2700W400S**

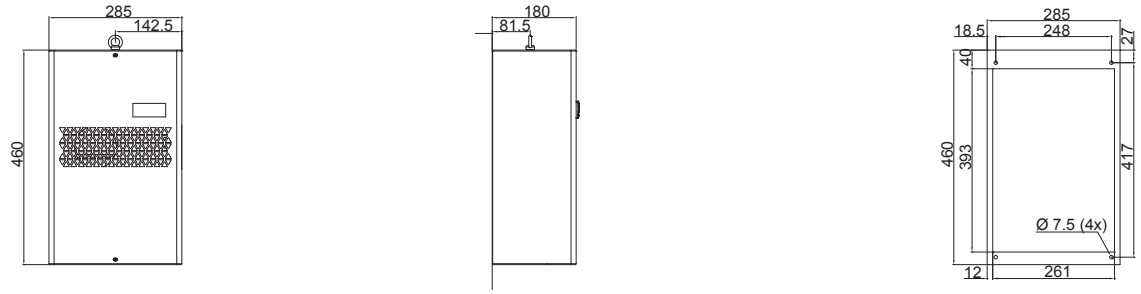
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Thermal management system

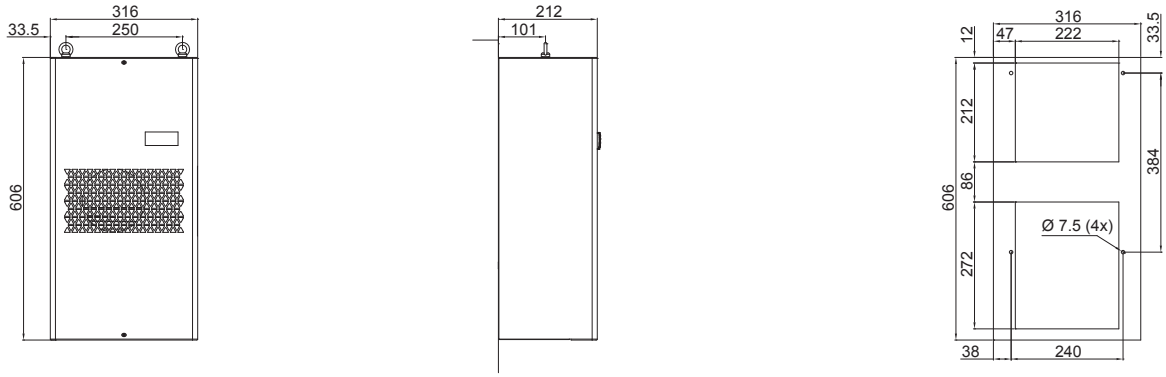
Side-mounting models: Dimensions and cut-outs



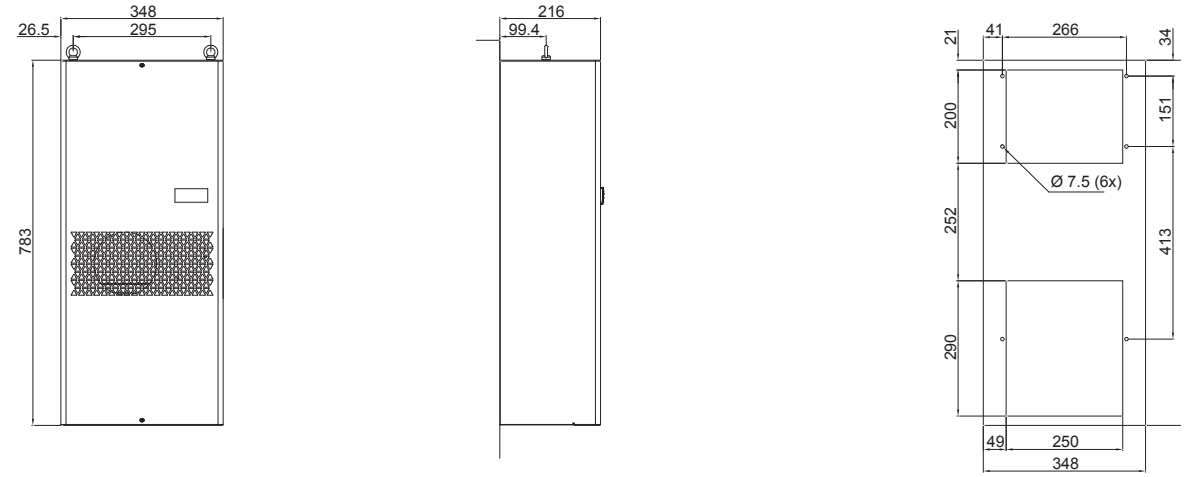
NSYCU300H



NSYCU●●400●●



NSYCU●●600●●



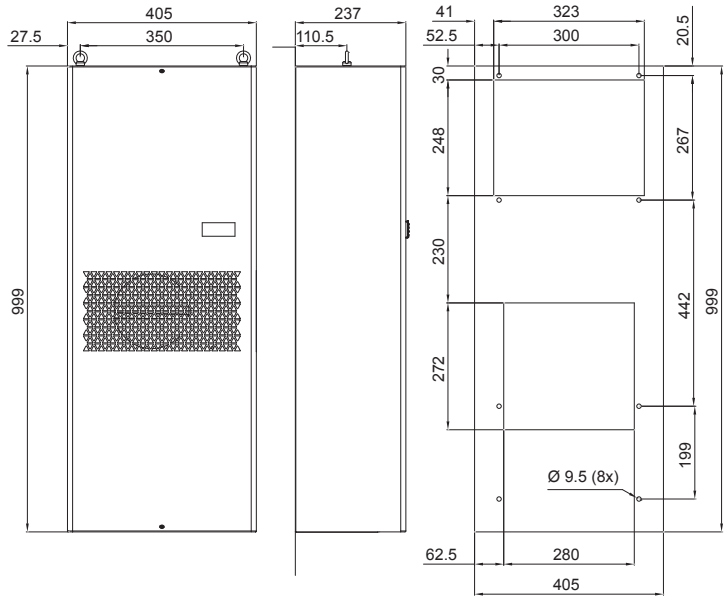
NSYCU●●800●● - NSYCU●●1K●●

Units of measurement are mm

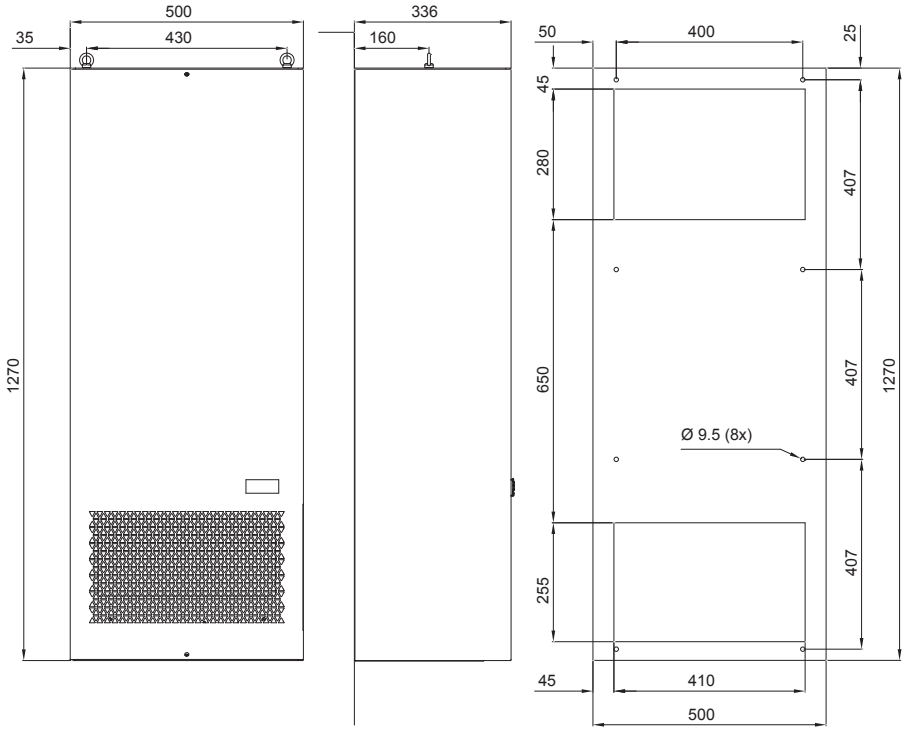
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Thermal management system

Side-mounting models: Dimensions and cut-outs



NSYCU●●1K2●● - NSYCU●●1K6●● - NSYCU●●2K●●



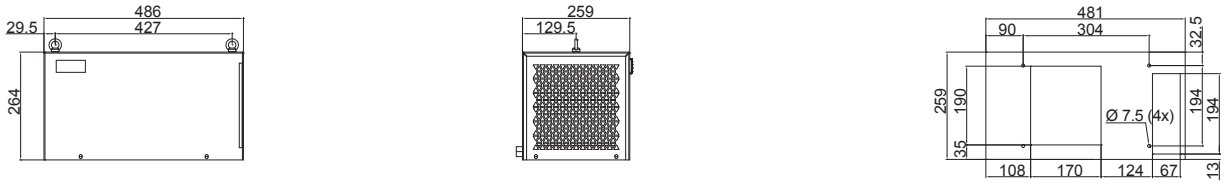
NSYCU●●3K3P4●● - NSYCU●●4K3P4●●

Units of measurement are mm

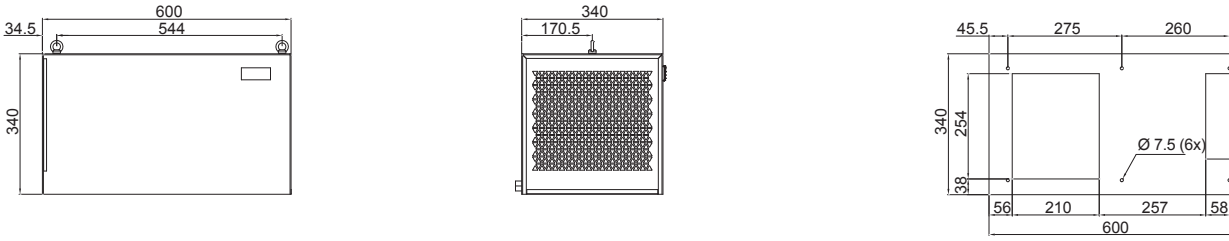
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Thermal management system

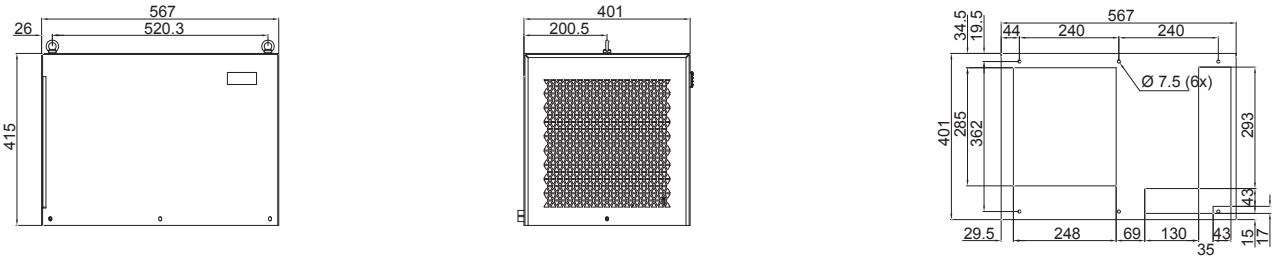
Top-mounting models: Dimensions and cut-outs



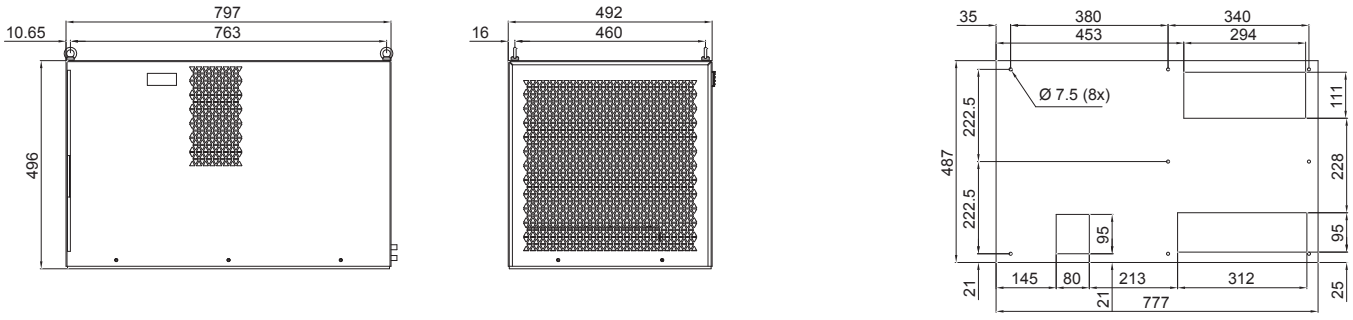
NSYCU●●400R●●



NSYCU●●800R●●



NSYCU●●1K2R●● - NSYCU●●1K5R●● - NSYCU●●2K●●R●●



NSYCU●●3K3P4R●● - NSYCU●●4K3P4R●●

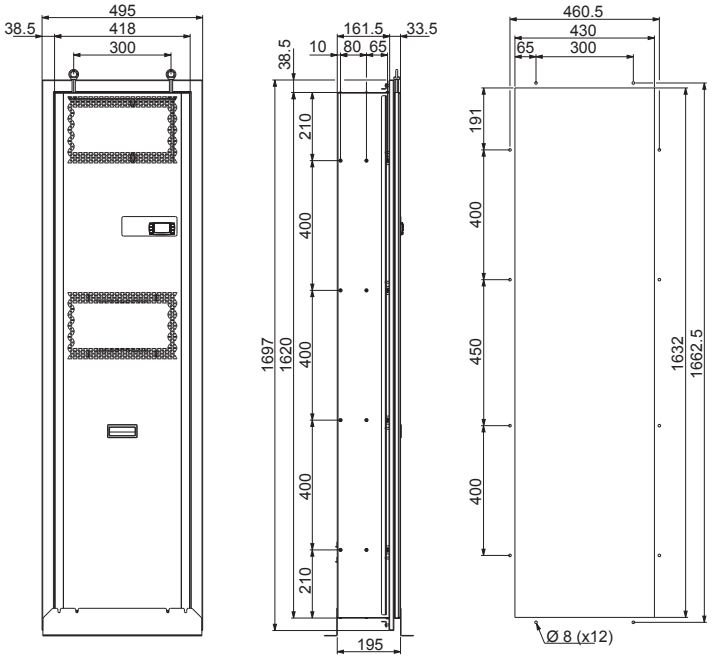
Units of measurement are mm

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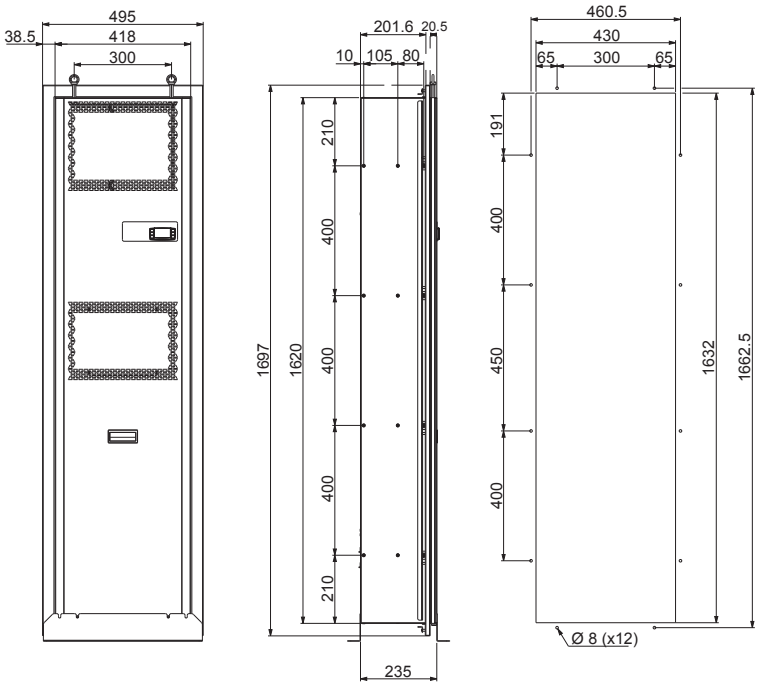
Life Is On Schneider Electric

Thermal management system

Top-mounting models: Dimensions and cut-outs



NSYCUS●1K1● - NSYCUS●1K5● - NSYCUS●2K●



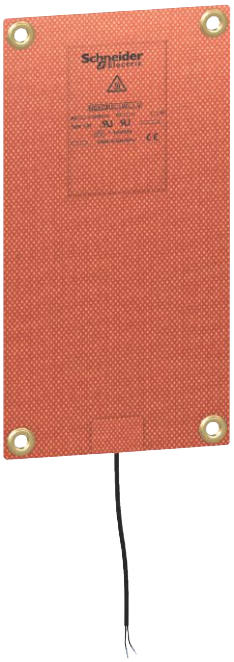
NSYCUS2K5UL

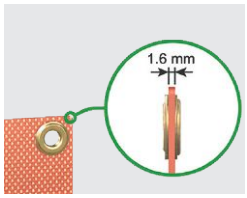
Units of measurement are mm

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Thermal management system

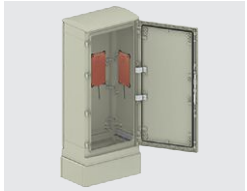
Ultra thin resistance heaters have been designed to resolve condensation problems in the most complex installations.
Is your enclosure short of space?
Does your mounting plate make it impossible to install a conventional heater?
Do you not want to take out the equipment?
Discover the benefits of this new offer and its numerous mounting solutions.





Small size (thickness = 1.6 mm)

- The space saving available for the equipment compared with a conventional resistor can be up to 30%.



Numerous positions for installation

- These heaters are so slim and flexible they can be installed in a variety of positions:
- Vertically on side panels
- On the mounting plate.

Heat and safety

- The heat is distributed over the whole surface and does not exceed 70°C. This temperature allows devices next to the heater to be handled safely.

Energy efficiency

- Ultra thin resistance heaters are ohmic: They therefore have a low starting current.



Multiple options for fixing

- Innovative quick fixing system using Velcro pads (no need for a tool!) or with basic fixing accessories (screw + spacer). These systems make it easy to move the heater if necessary.

No interference emissions

- These resistors can be installed near electronic equipment to help guarantee optimum heat.

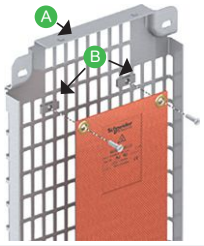
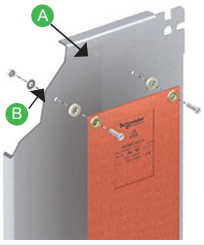
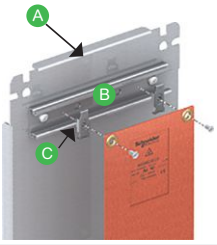
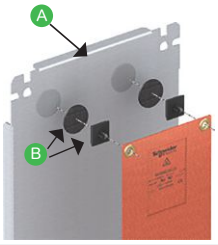
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Life Is On Schneider Electric

Thermal management system

Other characteristics Electrical circuit diagram



					
5 mounting solutions:	On a Telequick mounting plate	On plain or micro-perforated mounting plate with fixing hardware	On DIN rail	On plain mounting plate with selfadhesive Velcro pads	On wall with self-adhesive Velcro pads
	A Telequick mounting plate, ref. **NSYMR●●●●** B Telequick nuts, ref. **AF1EA●**, supplied with the mounting kit	A Mounting plate, ref. **NSYMM●●●●** B Fixing hardware included in the mounting kit	A Mounting plate, ref. **NSYMM●●●●** B Symmetrical DIN rail, ref. **NSYSDR●●●●** C Clip-on nuts, ref. **AF1CG●**, supplied with the mounting kit	A Mounting plate, ref. **NSYMM●●●●** B Self-adhesive Velcro pad and plastic fixings supplied with the mounting kit	A Self-adhesive Velcro pads and plastic fixings supplied in the mounting kit
Characteristics	**PB502046**	**PB502047**	**PB502048**	**PB502049**	**PB502522**
	Flexible, ultra thin resistance heaters to be installed inside the enclosure				
Material	Silicon reinforced with fibreglass				
Colour	Red (heaters), black (wires)				
Certifications	VDE, LR				
Supply	• 6 self-adhesive Velcro pads • 6 plastic fixings • 4 Telequick nuts • 4 clip-on nuts • Fixing hardware				

Ultra thin resistance heaters

Flexible, ultra thin resistance heaters to be installed inside the enclosure
- Material: Silicon reinforced with fibreglass
- Colour: Red (heaters), black (wires)
- Certifications: VDE, LR

Comment:
Ultra thin resistance heaters can be manufactured with different dimensions and power ratings than those indicated above. Please contact us.


NSYCRS10W120V

Characteristics	Power (W)	Voltage (V)	Inrush current (A)	Height (mm)	Width (mm)	Depth (mm)	References
Ultra thin resistance heaters	10	120	0.08	110	140	1.6	**NSYCRS10W120V**
Ultra thin resistance heaters	10	240	0.04	110	140	1.6	**NSYCRS10W240V**
Ultra thin resistance heaters	25	120	0.21	110	230	1.6	**NSYCRS25W120V**
Ultra thin resistance heaters	25	240	0.10	110	230	1.6	**NSYCRS25W240V**
Ultra thin resistance heaters	50	120	0.42	200	320	1.6	**NSYCRS50W120V**
Ultra thin resistance heaters	50	240	0.21	200	320	1.6	**NSYCRS50W240V**
Ultra thin resistance heaters	100	120	0.83	260	440	1.6	**NSYCRS100W120V**
Ultra thin resistance heaters	100	240	0.42	260	440	1.6	**NSYCRS100W240V**
Ultra thin resistance heaters	200	120	1.67	380	650	1.6	**NSYCRS200W120V**
Ultra thin resistance heaters	200	240	0.83	380	650	1.6	**NSYCRS200W240V**

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Thermal management system

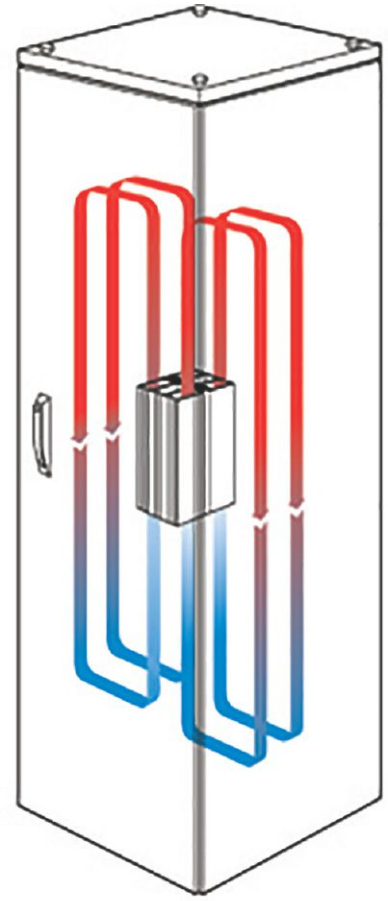
The resistance heaters help prevent the formation of condensation and help guarantee the ideal temperature for the correct operation of the electronic components in the enclosure.

Insulated PTC heaters













Large range of power levels

- 2 versions: By natural convection and with fan.
- AC or DC power supply.
- 7 power levels, from 10 W to 550 W.





Easy installation and connection

- Reduced dimensions.
- Quick electric connection by terminal board.
- No maintenance required.
- Direct clipping onto a 35 mm DIN rail.



Innovating design





Safety

- The protection helps prevent direct contact with the aluminium radiator.
- Electric protection device with terminal block cover.
- Equipped with a PTC-type heater.
- Surface temperature lower than 70°C.



Models with fan

- The heaters equipped with a fan help ensure circulation of the air and a uniform temperature inside the enclosure.
- High-flow, silent fan.

High thermal efficiency

- The configuration of the aluminium profile produces a "chimney" effect: high natural convection.
- Low power consumption thanks to self-control of the PTC-type heater.

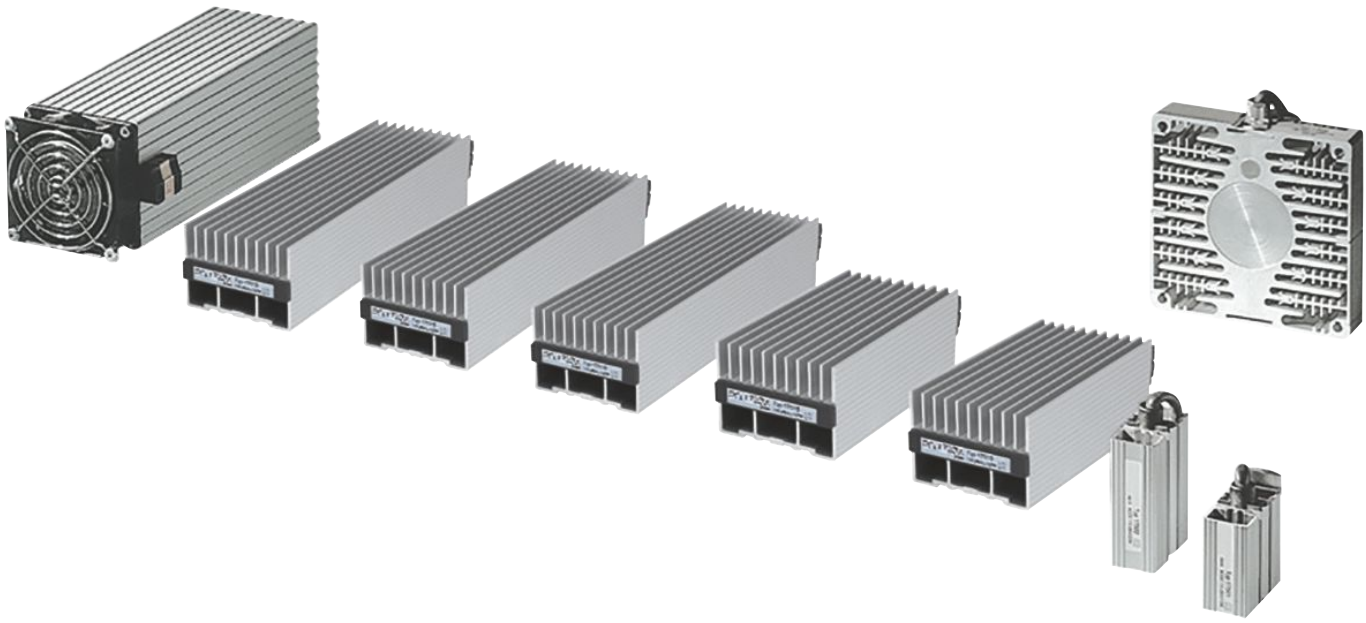
Certifications

- CE marking.
- Range compliant with UL and VDE.

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Thermal management system

Aluminium PTC heaters

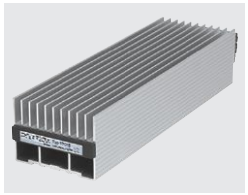




Models with fan
- Models of 250 to 400 W with fan.



Quick fixing
- The resistance heaters are fixed by means of fixing clips to a 35 mm DIN rail.



Resistance heaters equipped with a PTC-type sensor
The resistance heaters for electrical and electronic enclosures are equipped with PTC-type heating devices (Positive Temperature Coefficient). Thanks to these heaters:
- The surface temperature stabilises at 75°C when the ambient temperature is -5°C.
- Power consumption is reduced.

Improved convection
- The design of the profile of the resistance heaters produces a "chimney" effect, leading to increased natural convection and maintaining an even temperature inside the enclosure.



Connection cables
- The 10 and 20 W heaters are equipped with a 2 x 0.75 x 300 mm power cord.



Connection terminal boards
- Heaters with a power of more than 20 W are equipped with a connection terminal board.

Large range of power levels
- 8 power levels, from 10 W to 400 W.

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Thermal management system

Insulated PTC resistance heaters

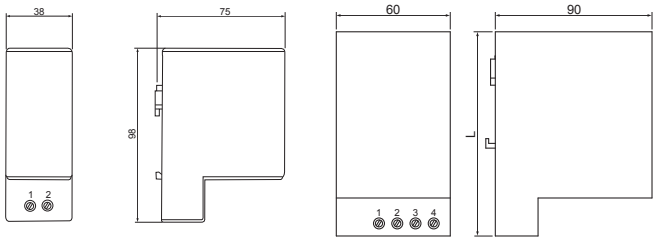
- Compact resistance heater helping prevent the formation of condensation or frost.
- Designed to help ensure good natural convection and high thermal efficiency.
- Material: Extruded aluminium body
- Conditions of use: The heaters must be installed with a thermal controller (see selection table on page 602 and 603) to control the temperature or the humidity inside the enclosure
- The enclosure must be sealed to help prevent the entry of air from the outside
- An electrical protection device must be installed on the supply side of the unit
- Operating position: Vertical
- Operating temperature: -40…+70°C; -10…+158°F
- Surface temperature: <70°C, except for the top protection grille
- Ingress protection rating: IP20
- Certifications: VDE and UL, Cover: UL 94 V-0 plastic, Class II (double insulated)
- Mounting: By clip on a 35 mm DIN rail



NSYCR10WU2C



NSYCR50WU2C



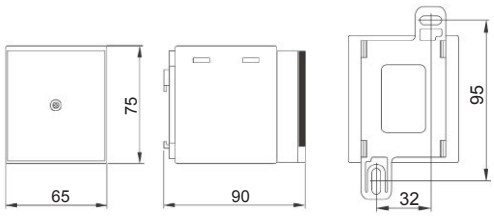
Characteristics	Heating power at 0°C (W)	Voltage (V)	Electric connection	References
Insulated PTC resistance heater	10	12-24V	2 poles, 2.5 mm²	**NSYCR10WU1C**
Insulated PTC resistance heater	10	110-250V	2 poles, 2.5 mm²	**NSYCR10WU2C**
Insulated PTC resistance heater	20	12-24V	2 poles, 2.5 mm²	**NSYCR20WU1C**
Insulated PTC resistance heater	20	110-250V	2 poles, 2.5 mm²	**NSYCR20WU2C**
Insulated PTC resistance heater	50	12-24V	4 poles, 2.5 mm²	**NSYCR50WU1C**
Insulated PTC resistance heater	50	110-250V	4 poles, 2.5 mm²	**NSYCR50WU2C**
Insulated PTC resistance heater	50	270-420V	4 poles, 2.5 mm²	**NSYCR50WU3C**
Insulated PTC resistance heater	100	12-24V	4 poles, 2.5 mm²	**NSYCR100WU1C**
Insulated PTC resistance heater	100	110-250V	4 poles, 2.5 mm²	**NSYCR100WU2C**
Insulated PTC resistance heater	100	270-420V	4 poles, 2.5 mm²	**NSYCR100WU3C**
Insulated PTC resistance heater	150	110-250V	4 poles, 2.5 mm²	**NSYCR150WU2C**

Insulated ventilated PTC heaters

- Compact resistance heater helping prevent the formation of condensation or frost.
- Designed to help ensure good natural convection and high thermal efficiency.
- Material: Extruded aluminium body
- Conditions of use: The heaters must be installed with a thermal controller (see selection table on page 602 and 603) to control the temperature or the humidity inside the enclosure
- The enclosure must be sealed to help prevent the entry of air from the outside
- An electrical protection device must be installed on the supply side of the unit
- Operating position: Vertical
- Operating temperature: -40…+70°C; -10…+158°F
- Surface temperature: Max. 50°C in the enclosure, 100°C on the top protection grille, (for an ambient temperature of 20°C / 68°F)
- Ingress protection rating: IP20
- Certifications: VDE and UL, Cover: UL 94 V-0 plastic, Class II (double insulated)
- Mounting: By clip on a 35 mm DIN rail



NSYCR170W230VVC



Characteristics	Heating power at 0°C (W)	Voltage (V)	Electric connection	References
Insulated ventilated PTC heater	177	230 AC / 50-60 HZ	2 poles, 2.5 mm²	**NSYCR170W230VVC**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Thermal management system

Aluminium PTC heaters

- Extruded aluminium body.
- Surface temperature limited to 75°C when the ambient temperature is -5°C.
- Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.

Conditions of use:

- The heaters must be installed with a thermal controller to control the temperature or the humidity inside the enclosure
- The enclosure must be sealed to help prevent the entry of air from the outside
- An electrical protection device must be installed on the supply side of the unit



NSYCR10WU1



NSYCR250W115VV

Characteristics	Power (W)	Voltage (V)	References
Aluminium PTC heater	10	12-24 DC	**NSYCR10WU1**
Aluminium PTC heater	10	110-250 AC	**NSYCR10WU2**
Aluminium PTC heater	20	12-24 DC	**NSYCR20WU1**
Aluminium PTC heater	20	110-250 AC	**NSYCR20WU2**
Aluminium PTC heater	20	270-420 AC	**NSYCR20WU3**
Aluminium PTC heater	55	12-24 DC	**NSYCR55WU1**
Aluminium PTC heater	55	110-250 AC	**NSYCR55WU2**
Aluminium PTC heater	55	270-420 AC	**NSYCR55WU3**
Aluminium PTC heater	90	12-24 DC	**NSYCR100WU1**
Aluminium PTC heater	90	110-250 AC	**NSYCR100WU2**
Aluminium PTC heater	90	270-420 AC	**NSYCR100WU3**
Aluminium PTC heater	150	12-24 DC	**NSYCR150WU1**
Aluminium PTC heater	150	110-250 AC	**NSYCR150WU2**
Aluminium PTC heater	150	270-420 AC	**NSYCR150WU3**
Aluminium PTC heater with fan	250	115 AC	**NSYCR250W115VV**
Aluminium PTC heater with fan	250	230 AC	**NSYCR250W230VV**
Aluminium PTC heater with fan	400	115 AC	**NSYCR400W115VV**
Aluminium PTC heater with fan	400	230 AC	**NSYCR400W230VV**
Resistive heater	200	115 AC	**NSYCRS200W115V**
Resistive heater	200	230 AC	**NSYCRS200W230V**

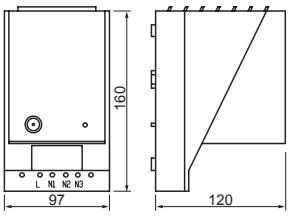
Thermofan



NSYCRP1W120VTVC

Combination of a resistance heater and an axial motor to help ensure uniform heating of the enclosure.

- Fixing by clip on a DIN rail.
- Thermostat adjustable from 0...+60°C.
- Visual operation indicator.



Characteristics	Power (W)	Voltage (V)	References
Thermofan	350/550	120 AC	**NSYCRP1W120VTVC**
Thermofan	350/550	230 AC	**NSYCRP1W230VTVC**

Fixing accessories



NSYCRAF



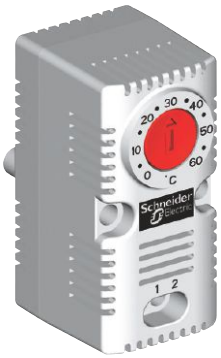
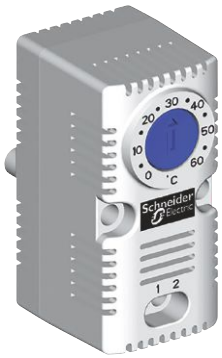
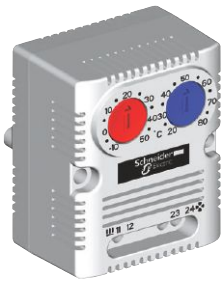
NSYCRAFD

Characteristics	Supply	References
Fixing accessories	Set of 5 studs	**NSYCRAF**
Fixing accessories	Set of 5 studs and DIN rail	**NSYCRAFD**

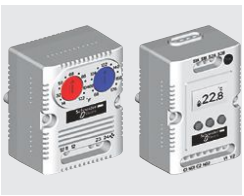
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Thermal management system

Mechanical thermostats

	 Thermostat with NC contact	 Thermostat with NO contact	 Thermostat with NO/NC contact	 Double Thermostat
Characteristics	**NSYCCOTHC (NSYCCOTHCF)**	**NSYCCOTHO (NSYCCOTHOF)**	**NSYCCOTHI (NSYCCOTHIF)**	**NSYCCOTHD (NSYCCOTHDF)**
	Thermostat with NC Contact: • to control the stopping of a resistance heater when the temperature exceeds the displayed value. **Thermostat with NO Contact:** • to control the starting up of a fan when the temperature exceeds the displayed maximum value, • to control the temperature inside the enclosure by only starting up the fan when necessary, thus increasing the service life of the fan and reducing the clogging of the filter.			
Colour button	Red	Blue	Black	Red and blue
Ingress protection rating	IP20	IP20	IP20	IP20
Sensor element	Bimetal	Bimetal	Bimetal	Bimetal
Contact	NC, forced rupture	NC, forced rupture	Inverse,forced rupture	NO / NC, forced rupture
Contact resistance	< 10 mΩ	< 10 mΩ	< 10 mΩ	< 10 mΩ
Service life	> 100,000 cycles	> 100,000 cycles	> 100,000 cycles	> 100,000 cycles
Switching capacity	• 250 V AC; 10 A (resistive load) • 120 V AC; 15 A (resistive load) • 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6) • 30 W DC	• 250 V AC; 10 A (resistive load) • 120 V AC; 15 A (resistive load) • 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6) • 30 W DC	• 250 V AC; 10 A (resistive load)	• 250 V AC; 10 A (resistive load) • 120 V AC; 15 A (resistive load) • 250 V AC/120 V AC 2 A (inductive load cos ϕ = 0.6) • 30 W DC
Max interrupting capacity with direct current	NC	NO	250 V AC 4 A (inductive load cos ϕ = 0.6) 30 W DC	NA
Connection	Two 2.5 mm² terminals	Two 2.5 mm² terminals	Four 2.5 mm² terminals	Six 2.5 mm² terminals
Mounting	By clip on 35 mm DIN rail	By clip on 35 mm DIN rail	By clip on 35 mm DIN rail	By clip on 35 mm DIN rail
Enclosure	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey
Dimensions	60 x 33 x 43 mm	60 x 33 x 43 mm	67 x 50 x 44 mm	60 x 33 x 43 mm
Weight	40 g	40 g	100 g	40 g
Mounting position	Indifferent	Indifferent	Indifferent	Indifferent
Operating temperature	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)
Hysteresis	7°K	7°K	7°K	7°K
Temperature setting range	0...+60°C	0...+60°C	+5...+60°C	0...+60°C
Display	°C (°F)	°C (°F)	°C (°F)	°C (°F)
Max. command intensity	10 A 250 V	10 A 250 V	(NO) 5 A (NC) 10 A	(NO) 5 A (NC) 10 A

Thermal control



Mechanical and electronic thermostats

- Large range of temperature control.
- Small dimensions.
- Easily accessible terminals.

Operational temperature range

- For mechanical thermostats: 0°C ... +60°C
- For electronic thermostats: -40°C ... +80°C



LED screen

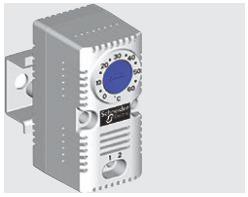
- Screen visible even in the dark.

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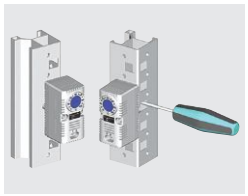
Electronic thermostats with LED screen

			
	Electronic thermostat With LED screen	Electronic hygrotherm With LED screen	Electronic hygrostat With LED screen
Characteristics	**NSYCCOTH30VID NSYCCOTH120VID NSYCCOTH230VID**	**NSYCCOHYT30VID NSYCCOHYT120VID NSYCCOHYT230VID**	**NSYCCOHY30VID NSYCCOHY120VID NSYCCOHY230VID**
	Electronic temperature controller	Electronic temperature and humidity controller	Electronic humidity controller
Ingress protection rating	IP20	IP20	IP20
Certification	UL / UR	UL / UR	UL / UR
Internal sensor element	Temperature sensor	Temperature sensor and humidity sensor	Humidity sensor
Contact	Free with zero potential	Free with zero potential	Free with zero potential
Connection	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 1 relay (2 x 2.5 mm²)
Mounting	4 different methods: By DIN rail, Spacial SF profile, on VDI cross rail or on mounting plate		
Enclosure	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey
Operating temperature	-40°C…+70°C	-40°C…+70°C	-40°C…+70°C
Hysteresis	Programmed 2°K	Programmed 2 K and 3 %	3 %
Temperature setting range	-40°C…+80°C	-40°C…+80°C	-40°C…+80°C
Humidity setting range	-	20 %…80 %	20 %…80 %
Display	°C or °F	°C or °F or % RH	% RH
Max. command intensity	8 (5) A 230 V AC / 5 A 30 V DC	8 (5) A 230 V AC / 5 A 30 V DC	8 (5) A 230 V AC / 5 A 30 V DC

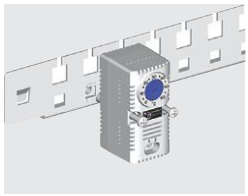
The new quick fixing systems



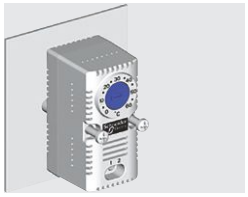
- On 35 mm DIN rail.



- On Spacial upright.



- On cross rail.



- On mounting plate.

Certifications and declarations

- UL
- CE

12
CC

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Thermal management system

Mechanical thermostats

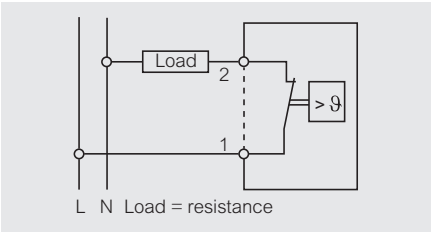
- Ingress protection rating according to IEC 60529: IP20
- Sensor element: Bimetal
- Contact resistance: < 10 mΩ
- Service life: > 100,000 cycles
- Mounting: By clip on 35 mm DIN rail
- Enclosure: UL 94 V-0 plastic, light grey
- Mounting position: Indifferent
- Operating temperature: -20...+80°C (-4...+176°F)
- Hysteresis: 7 K

Thermostat with NC contact



NSYCCOTHC

- Colour button: Red
- Contact: NC, forced rupture
- Switching capacity: 250 V AC; 10 A (resistive load)
  120 V AC; 15 A (resistive load)
  250 V AC/120 V AC 2 A (inductive load cos = 0.6)
  30 W DC
- Max interrupting capacity with direct current: NC
- Connection: Two 2.5 mm² terminals
- Weight: 40 g
- Temperature setting range: 0...+60°C



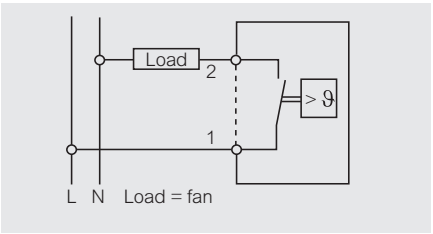
Characteristics	Display	Max. command intensity	Dimensions (H x W x D)	References
Thermostat with NC contact	°C	10 A 250 V	60 x 33 x 43 mm	**NSYCCOTHC**
Thermostat with NC contact	°F	10 A 250 V	60 x 33 x 43 mm	**NSYCCOTHCF**

Thermostat with NO contact



NSYCCOTHO

- Colour button: Blue
- Contact: NO, forced rupture
- Switching capacity: 250 V AC; 10 A (resistive load)
  120 V AC; 15 A (resistive load)
  250 V AC/120 V AC 2 A (inductive load cos = 0.6)
  30 W DC
- Max interrupting capacity with direct current: NO
- Connection: Two 2.5 mm² terminals
- Weight: 40 g
- Temperature setting range: 0...+60°C



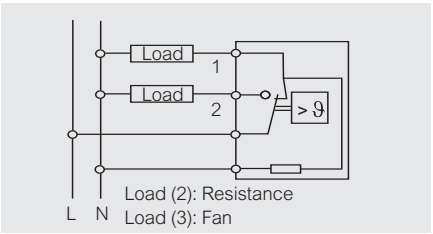
Characteristics	Display	Max. command intensity	Dimensions (H x W x D)	References
Thermostat with NO contact	°C	10 A 250 V	60 x 33 x 43 mm	**NSYCCOTHO**
Thermostat with NO contact	°F	10 A 250 V	60 x 33 x 43 mm	**NSYCCOTHOF**

Thermostat with NO/NC contact



NSYCCOTHI

Colour button: Black
Contact: Inverse,forced rupture
Switching capacity: 250 V AC; 10 A (resistive load)
Max interrupting capacity with direct current: 250 V AC 4 A
(inductive load cos = 0.6) 30 W DC
Connection: Four 2.5 mm² terminals
Weight: 100 g
Temperature setting range: +5...+60°C



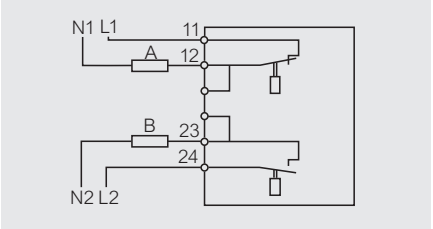
Characteristics	Display	Max. command intensity	Dimensions (H x W x D)	References
Thermostat with NO/NC contact	°C	(NO) 5 A (NC) 10 A	67 x 50 x 44 mm	**NSYCCOTHI**
Thermostat with NO/NC contact	°F	(NO) 5 A (NC) 10 A	67 x 50 x 44 mm	**NSYCCOTHIF**

Double Thermostat



NSYCCOTHD

- Colour button: Red and blue
- Contact: NO / NC, forced rupture
- Switching capacity: 250 V AC; 10 A (resistive load)
  120 V AC; 15 A (resistive load)
  250 V AC/120 V AC 2 A (inductive load cos = 0.6)
  30 W DC
- Max interrupting capacity with direct current: NA
- Connection: Six 2.5 mm² terminals
- Weight: 40 g
- Temperature setting range: 0...+60°C



Characteristics	Display	Max. command intensity	Dimensions (H x W x D)	References
Double Thermostat	°C	(NO) 5 A (NC) 10 A	60 x 33 x 43 mm	**NSYCCOTHD**
Double Thermostat	°F	(NO) 5 A (NC) 10 A	60 x 33 x 43 mm	**NSYCCOTHDF**

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Thermal management system

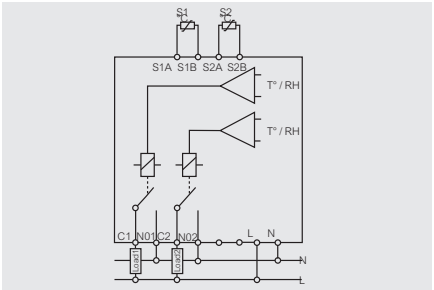
Electronic thermostats

- Ingress protection rating according to IEC 60529: IP20
- Certification: UL / UR
- Contact resistance: Free with zero potential
- Mounting: 4 different methods: By DIN rail, Spacial SF profile, on VDI cross rail or on mounting platel
- Enclosure: UL 94 V-0 plastic, light grey
- Operating temperature: -40°C…+70°C
- Hysteresis: 7 K
- Max. command intensity: Motor: 4 / 13.1 A, FLA / LRA, 250 Vac Resistive load: 4 A, 250 Vdc

Electronic thermostats, with LED screen



NSYCCOTH30VID



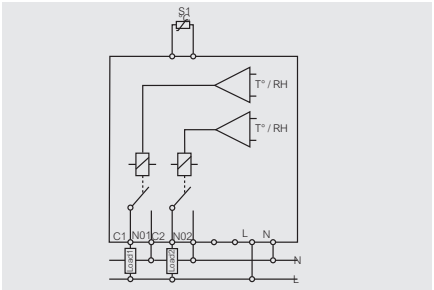
- Internal sensor element: Temperature sensor
- Connection: 2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)
- Hysteresis: Programmed 2 K
- Temperature setting range: -40°C…+80°C

Characteristics	Display	Voltage (type of current)	References
Electronic thermostats, with LED screen	°C or °F	9-30 V (AC/DC)	**NSYCCOTH30VID**
Electronic thermostats, with LED screen	°C or °F	90-140 V (AC)	**NSYCCOTH120VID**
Electronic thermostats, with LED screen	°C or °F	200-240 V (AC)	**NSYCCOTH230VID**

Electronic hygrotherm



NSYCCOHYT30VID



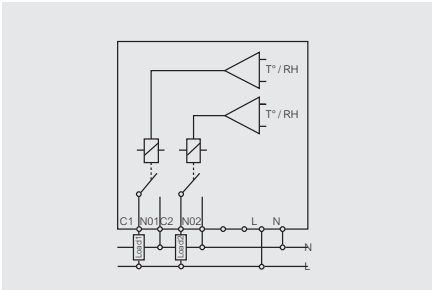
- Internal sensor element: Temperature sensor and humidity sensor
- Connection: 2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)
- Hysteresis: Programmed 2 K and 3 %
- Temperature setting range: -40°C…+80°C
- Humidity setting range: 20 %…80 %

Characteristics	Display	Voltage (type of current)	References
Electronic hygrotherm	°C or °F or % RH	9-30 V (AC/DC)	**NSYCCOHYT30VID**
Electronic hygrotherm	°C or °F or % RH	90-140 V (AC)	**NSYCCOHYT120VID**
Electronic hygrotherm	°C or °F or % RH	200-240 V (AC)	**NSYCCOHYT230VID**

Electronic hygrostat



NSYCCOHY30VID



- Internal sensor element: Humidity sensor
- Connection: 2 x 2.5 mm² (input voltage) + 1 relay (2 x 2.5 mm²)
- Hysteresis: 3 %
- Humidity setting range: 20 %…80 %

Characteristics	Display	Voltage (type of current)	References
Electronic hygrostat	% RH	9-30 V (AC/DC)	**NSYCCOHY30VID**
Electronic hygrostat	% RH	90-140 V (AC)	**NSYCCOHY120VID**
Electronic hygrostat	% RH	200-240 V (AC)	**NSYCCOHY230VID**

External temperature sensor (double insulation)

Sensor operation or reading range: -40°C…+150°C. Thermostat installation tips: The thermostat should be installed at the top of the enclosure (the hottest place). See the various operating modes of each thermostat to choose the one that best meets your needs. Hygrostat installation tips: The hygrostat should be installed at the bottom of the enclosure. 60% RH is the optimum value in the enclosure.

- Ingress protection rating: IP67
- Fixing: On DIN rail, on Spacial SF profile, on VDI cross rail, on mounting plate



NSYCCASTE

Characteristics	Length of cable supplied	References
External temperature sensor	3 m	**NSYCCASTE**

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Thermal management system

Thermal conditions: A hot topic for enclosures

Temperature, humidity, and dew point all affect the performance of your electrical and electronic enclosures. Problem is, unless these environments are sized properly, thermal conditions will compromise reliability, safety, and efficiency, as well as the lifetime of your panels.
The precise knowledge of the thermal conditions is therefore indispensable to choose the most appropriate thermal management solution.

Threats to performance arise when:

Real environmental conditions are not known

Specifications are oversized

Excessive loads over-consume energy





How to use ClimaSys DT

Installation type	Need What do you want to do?		
Greenfield		New Project	Determine enclosure sizing needs and the correct thermal solution
Brownfield		Power Dissipation verification	Measure the dissipation power of the installation in watts (enclosure without thermal solution installed)
Brownfield		Electronics Health Test	Verify that there are no hot/ cold spots
Brownfield		Thermal Solution Test	Measure the efficiency of the existing thermal solution in a certain period of time
Brownfield		Humidity/ Condensation Test	Measure the risk of high humidity or condensation inside the enclosure

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ClimaSys DT: The solution to optimize the size of your enclosure

With ClimaSys DT dataloggers and EffiClima software, you can know with maximum accuracy the temperature evolution, humidity levels, and dew point inside and outside your control panels. This data can then be analyzed with ProClima thermal software to determine the optimal thermal solution for each of your control panel installations.

ClimaSys dataloggers



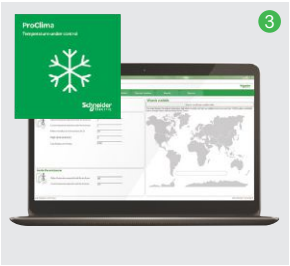
Measure and track thermal data.

EffiClima software

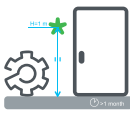
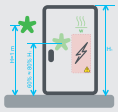
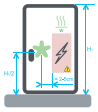
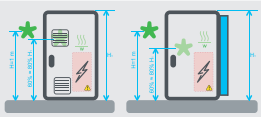
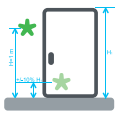


Translates data into a report on temperature, humidity, and dew point

ProClima software



Proposes the right thermal management solution based on the data variables.

Selection of the dataloggers			
Variables to measure	**How many dataloggers needed?**	**Model**	**Recommended installation**
• T outside • HR outside	1	DTH reference NSYDTEF32TRH	
• T outside • T inside	2	DTT reference NSYDTEF32T or DT mini reference NSYDTEFSMT	
• T inside	1	DTT reference NSYDTEF32T or DT mini reference NSYDTEFSMT	
• T outside • T inside	2	DTT reference NSYDTEF32T or DT mini reference NSYDTEFSMT	 Check Ventilation Check Cooling
• T inside • T outside • HR inside/ outside	2	DTH reference NSYDTEF32TRH	

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Thermal management system

ClimaSys DT (Diagnostic Tools) dataloggers are an easy-to-use solution that enables users to:

- Access accurate and reliable thermal measurement data in design, commissioning, and exploitation phases
- Track fast or slow measurements
- Maintain continuity of service
- Optimize installations
- Detect hot and cold spots, and avoid condensation problems
- Determine if ventilation/cooling is possible.



ClimaSys DTT

- ClimaSys DT model records the temperature.

Advantages



ClimaSys DTT

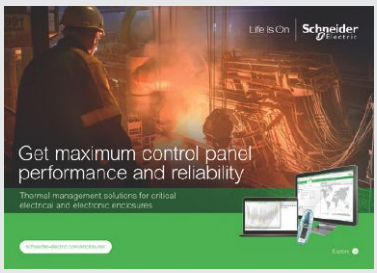
- Time stamp/start/stop with magnet key
- Low power consumption for extended two-year battery life
- Easy data download to PC via USB connection
- USB firmware update
- QR code on dataloggers for easy online access to data sheets, videos, and other technical information

Download EffiClima and ProClima free software

Discover more

ClimaSys DT video of the concept

e-brochure



Get maximum control panel performance and reliability
Thermal management solutions for critical electrical and electronic enclosures **UE16MK06EN**

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Thermal management system

Dataloggers

- Colour: Translucid
- Display Type: LCD display
- Operating temperature: -40°C…80°C
- Standard: EN 12830
- Declaration: CE
- Fixing mode: Clip-on support
- Connector type: USB
- Data recording: 32 K
- Temperature Setting (Accuracy): -40°C…80°C (±0.3°C)
- Battery Type (Lifespam): Lithium CR2032 3 V (Maximum 2 years)
- Composition: 1

Temperature recorder, DT

- Ingress protection rating according to IEC 60529: IP67



NSYDTEF32T

Characteristics	Temperature Resolution	Dimensions (H x W x D)	References
Temperature recorder	0.03°C	111 x 32 x 26	**NSYDTEF32T**

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Thermal management system

Method to determine a thermal management solution

Here is a simple method to help you choose a thermal solution.
This method does not take into account the humidity level outside the enclosure.

Thermal balance

1 - Characteristics of the enclosure

Position of the enclosure according to IEC 890 ratio		Formula for calculating S (m²)	Example Spacial reference NSYSF20840
	Accessible from every side	S = 1.8 x H x (W + D) + 1.4 x W x D	Height = 2000 Width = 800 Depth = 400 Installation method: Suitable enclosure placed against a wall. **S = 4.128 m²**
	Placed against a wall	S = 1.4 x W x (H + D) + 1.8 x D x H	
	On the end when suited	S = 1.4 x D x (H + W) + 1.8 x W x H	
	On the end when suited, placed against a wall	S = 1.4 x H x (W + D) + 1.4 x W x D	
	In the middle when suited	S = 1.8 x W x H + 1.4 x W x D + D x H	
	In the middle when suited, placed against a wall	S = 1.4 x W x (H + D) + D x H	
	In the middle when suited, placed against a wall with the top covered	S = 1.4 x W x H + 0.7 x W x D + D x H	
		S = m²	

2 - Thermal power dissipated by the operational components

Calculated as the sum of the power dissipated by each of the installed components. If these are not known, use the ProClima software.		Assume that the switchgear dissipates 800 W.
	Pd = W	**Pd = 800 W**

3 - Temperatures outside the enclosure

		The temperature conditions are as follows:
Maximum ambient temperature.	**Te_{max} = °C**	**Te_{max} = 35°C**
Minimum ambient temperature.	**Te_{min} = °C**	**Te_{min} = 15°C**

4 - Average desired internal temperatures

They are defined by the nature of the components and the characteristics of the environment air		
Maximum internal temperature	**Tid_{max} = °C**	**Tid_{max} = 40°C**
Minimum internal temperature (maximum value between the dew point temperature and the minimum operating temperature of the devices)	**Tid_{min} = °C**	**Tid_{min} = 29°C**

5 - Temperature inside the enclosure without thermal management system

Max. internal temperature: $Tfi_{max} = \frac{Pd}{K \times S} Te_{max}$	**Tfi_{max} = °C**	**Tfi_{max} = 70°C**
Min. internal temperature: $Tfi_{min} = \frac{Pd}{K \times S} Te_{min}$	**Tfi_{min} = °C**	**Tfi_{min} = 50°C**
or K = 5.5 W/m²/°C for an enclosure made of painted sheet steel K = 3.5 W/m²/°C for a polyester enclosure K = 3.7 W/m²/°C for a stainless steel enclosure		

Calculation of thermal management power (Psyst)

a. Cooling systems:
Psyst = Pd - K x S (Tid_{max} - Te_{max}) = 686 w

b. Resistances:
Electrical installation operating constantly
Psyst = K x S (Tid_{min} - Te_{min}) - Pd

Electrical installation operating discontinuously
Psyst = K x S (Tid_{min} - Te_{min})

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Thermal management system

Method to determine a thermal management solution

Choice of solution

1 - Cooling Condition: Calculated temperature + 5°C > Temperature wanted.

Conditions Cooling	Solution	Advantages	Constraints
Temperature wanted in the enclosure at least 5°C higher than the ambient temperature **Tid_{max} ≥ Temin + 5 °C**	Oversize the enclosure.	Economical. No maintenance. Easy to implement. IP of the installation maintained.	Relatively small savings. Larger overall dimensions.
	Natural airing (installation of ventilation air inlets).	Very economical. No maintenance. Easy, fast installation.	Quantity of heat removed small and dependent on the layout of the components. Deterioration of the IP (ingress of dust).
	Forced ventilation.	Economical. Easy to implement. Large quantity of heat removed. Temperature control possible.	Regular maintenance of filters IP slightly degraded. Ambient temperature ≤ 35°C.
	Air-air exchanger.	Easy to implement. Easy to maintain. IP of the installation maintained. Regulated temperature.	Regular filter maintenance.
Temperature Tid_{max} wanted in the enclosure 5°C less than the ambient temperature Te_{max}. **Tid_{max} - 5 °C≥ Te_{max}**	Cooling unit.	Easy to implement. Large quantity of heat removed irrespective of the ambient temperature. IP of the installation maintained. Regulated temperature.	Regular filter maintenance Ambient temperature ≤ 55°C. Installation of a system for removal of condensation water from the evaporator.
	Air-water exchanger.	Easy to implement. Large quantity of heat removed irrespective of the ambient temperature. IP of the installation maintained. Regulated temperature.No filter to be maintained.	Need for a water circuit. Consumption if supplied with town water.

$$\text{Flow rate (m}^3\text{/h)} = Ø = \frac{Psyst}{(Tid_{max} - Te_{max})} \times 3.1 \text{ (m}^3\text{/h)}$$

$$\text{Flow rate (W/K)} = Ø = \frac{Psyst}{(Tid_{max} - Te_{max})\ (W/K)}$$

2 - Heating

If the calculated temperature is less than the temperature wanted, the inside of the enclosure must be heated. The solution is to use heating resistors.
They can maintain the temperature above the dew point and thus help prevent any risk of condensation.
To maintain a uniform temperature inside the enclosure and thus help prevent hot spots, Schneider Electric proposes a heating resistor equipped with a fan.

3 - Homogenize

Objective: Help prevent hot spots.
Solution: Stirring fan.

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Technical guides and spare parts

Introduction

Enclosures and thermal management systems certifications	614
International enclosure standard	615
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Description of the marking label affixed to ATEX certified wall-mounting enclosures	625
Spare parts - Selection table	626
Spare parts ClimaSys	638

Enclosures and thermal management systems certifications Technical annexes

Range	Assemblies alone					Equipped assemblie system
	Empty assemblies for low-voltage switchgear	Standards for industrial equipment and UL classification	Marine environment classification or approval for protection and resistance to vibrations	Enclosures installed in a potentially explosive atmosphere	Outdoor Heavy Duty enclosures	Low-voltage switchgear and controlgear assemblies
	Standard/Directive					
	IEC 62208	**UL508A and CAN CSA C22-2 no. 14**	**Rules of certifying bodies**	**European directive no. 2014/34/UE EN60079-0 / EN60079-7 EN60079-3 / EN60529**	**IEC 61439-5 ISO 12944-6 IEC 61969-3**	**IEC61439-1&2**
Spacial						
SBM	●	●	● ●			
S3D	● ● (6)	●	● ● ●			
CRN	● (6)	●	●			
CRNG	● (6)	●	●			
S3DEX		●		●		
S3HF		●				
S3HD	● (6)	●			●	
S3CM		●				
SM	● ● (6)	●	●			
SF	● ● (6)	●	● ●			●
SFHD	● ● (6)	●			●	●
SFP/PH	● (6)					●
SFM						●
S3X	●	●	●			
SMX	●	●	● (3)			
SFX	● (3)	●	● (3)			
Thalassa						
TBS/TBP	●	● (1)				
PLS	●	●				
PLM	● ● (6)	●	●			
PLA	● ● (6)	●	●			
PLAT	● ● (6)					
PLAZ	● ● (6)					
PLAZT	● ● (6)					
PLD						
PHD	● (6)				● (2)	
ClimaSys (4)						
CV		●				
CU		●				
CE		●				
CR		● (5)				
CC		●				

(1) Only TBP.
(2) ISO 12944-6 only applies to the Spacial enclosures.
(3) Only for 1 door versions
(4) EAC compliant
(5) The insulated and aluminium resistance heaters of 12-24 V DC and 270-420 V AC are not certified
(6) Certificate by DEKRA
For other certifications and declarations of conformity, please consult us.

Official certification body

Bureau Veritas	LCIE (Bureau Veritas)	Bureau Veritas Marine Division	TUV Rheinland Group	Underwriters Laboratories	Laboratorio Oficial J.M. Madariaga	DNV-GL	Lloyd´s Register	Dekra	Asefa
●	●	●	●	●	●	●	●	●	●

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International enclosure standards

The main 10 functions of standard IEC 61439

For each of the following 10 functions, the standard IEC 61439 requires design verifications from the system manufacturer - mainly through type-tests defined in IEC 62208 - and routine verifications on each panel from the Panel Builder to achieve 3 basic goals: Safety, continuity of service and compliance with end-user requirements.

Safety

Voltage stresses withstand capability

- To withstand long term voltages, and transient and temporary overvoltages according to the insulation coordination principles and requirements.

Current-carrying capability

To help protect against burns and to withstand temperature rise:

- when any circuit is continuously loaded, alone, to the specified current
- when the assembly is loaded to the specified current according to the specified load pattern (between circuits and/or as a function of the time).

Short-circuit withstand capability

- To withstand the stresses resulting from the prospective short-circuit current and from the associated data (High forces between conductors, temp. rise in a very short time, air ionization, overpressure).

Protection against electric shock

- Hazardous-live-parts not to be accessible (basic protection).
- Accessible conductive parts not to become hazardous-live (fault protection).

Protection against risk of fire or explosion

- Resistance to internal glowing elements.

Comment: Protection of persons, and optional protection of the assembly, against arcing due to internal fault can be specified through a "special test" according to IEC 61641.

Continuity of service

Maintenance and modification capability

Capability to preserve continuity of supply without impairing safety during assembly maintenance or modification.

- Electrical condition of the assembly or various circuits.
- Speed of exchange of the functional units.
- Test facilities…

Electro-Magnetic compatibility

To properly function (immunity) and not to generate EM disturbances (emission) in specified environmental conditions:

- Industrial networks or locations (Environment A).
- Domestic, commercial, and light industrial locations (Environment B).

Compliance with end-user requirements

Capability to operate the electrical installation

To properly function, according to:

- the electrical diagram of the overall system and related information (voltages, coordination…),
- the specified operating facilities (e.g. free or restricted access to Man Machine Interfaces, isolation of the outgoing circuits…).

Capability to be installed on site

- To withstand handling, transport, storage… and installation constraints.
- Capability to be erected and connected (type of enclosure, type, material and cross sectional areas of external conductors).

Protection of the assembly against mechanical and atmospheric environmental conditions

- Presence of water or solid foreign bodies (IP according to IEC 60529).
- External mechanical impacts (optional IK according to IEC 62262).
- Indoor or outdoor installation (humidity, UV).

Both the point of arrival of energy and a device for distribution to the site applications, the LV switchboard is the intelligence of the system, central to the electrical installation.

It plays an essential role in the availability of electric power, while meeting the needs of personal and property safety. Its definition, design and installation are based on precise rules; There is no place for improvisation. The IEC 61439 standard aims to better define "low-voltage switchgear and controlgear assemblies", helping ensure that the specified performances are reached. It specifies in particular:

- the responsibilities of each player, distinguishing those of the original equipment manufacturer; the organization that performed the original design and associated verification of an assembly in accordance with the standard, and of the assembly manufacturer - the organization taking responsibility for the finished assembly
- the design and verification rules, constituting a benchmark for product certification All the component parts of the electrical switchboard are concerned by the IEC 61439 standard. Equipment produced in accordance with the requirements of this switchboard standard helps ensure the safety and reliability of the installation.

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International enclosure standards



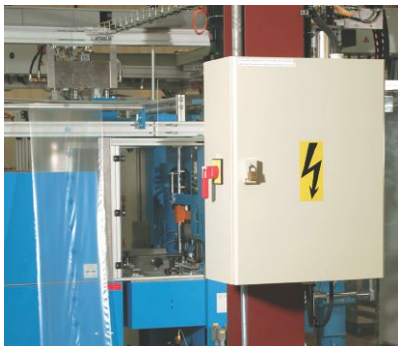
Comment:
European standard EN 62208 is identical to IEC 62208. European countries publish this standard according to the body in each country (for example BS EN 62208 in the UK).

Empty enclosures for low-voltage switchgear and controlgear assemblies. General rules.

Application
For empty enclosures before adding the user's switchgear, in the condition as supplied by the manufacturer.

Field of application
Demands for testing the enclosures to be used as part of the switchgear assemblies for voltages of less than 1000 V alternating current and 1500 V direct current in accordance with IEC 61439.

Information supplied by the manufacturer
- Commercial trademark of the manufacturer: Schneider Electric.
- Mechanical characteristics, materials, conditions for use.
- Conditions for use: Ambient air temperature for outdoor installations: -25 to +40°C.
- Atmospheric conditions for outdoor installations: The humidity can temporarily reach 100% at a temperature of 25°C.
- Transport and storage conditions: From -25 to +55°C; For limited periods not exceeding 24 h: Up to +70°C.



Standard tests of standard IEC 62208

- Static loads: Test 1.25 x maximum admissible load during 1 hour.
- Lifting: Applicable to enclosures with lifting accessories.
- Axial loads of metal inserts: 500 N for 10 seconds for M8 inserts.
- IK code: Test according to standard IEC 62262 with pendulum impact tester. After testing, the enclosure keeps its IP rating.
- IP rating: Test according to standard IEC 60529. Degree of protection against access to dangerous parts and the penetration of solid bodies and against the penetration of water.
- Thermal stability at a temperature of 70 °C: 7 days.
- Resistance to heat: Ball test at 70 °C.
  Information required for enclosures made from insulating material.
- Resistance to abnormal heat and to fire: Glow wire test according to IEC 60695-2-10 and IEC 60695-2-11.
  Information required for enclosures made from insulating material.
- Dielectric strength: 5000 V
  Information required for enclosures made from insulating material.
- Protection circuit continuity for metal enclosures: Resistance not to exceed 0.1 ohm.
- Weather resistance: Duration 500 h (cycle: Rain 5 minutes + UV lamp 25 minutes).

Corrosion resistance:
For indoor enclosures:
- 6 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
- 2 cycles of 24 hours of the salt mist test at 35 °C.

For outdoor enclosures:
2 identical 12 day periods. Each one with:
- 5 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
- 7 cycles of 24 hours of the salt mist test at 35 °C.

Our empty enclosures are marked CE according to the Low-Voltage Directive (LVD). It is the responsibility of the final equipment manufacturer to respect regulations in force.

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Selection of enclosures

Selection according to the IP protection degrees

The degrees of protection, explained on the next page, is an important element when selecting the enclosures.
The following table shows the protection degrees of the enclosures.

Name	Range	IP43	IP44	IP54	IP55	IP65	IP66
Metal industrial boxes	Spacial SBM						●
Metal derivation boxes	Spacial SDB				●		
Steel wall-mounting enclosures	Spacial S3D				● (1)		●
Steel modular distribution wall-mounting enclosures	Spacial S3DM						●
Terminal wall-mounting enclosures	Spacial S3DB						●
Steel wall-mounting enclosures	Spacial S3HF				●		
Steel wall-mounting enclosures	Spacial CRN						●
Steel wall-mounting enclosures	Spacial CRNG				● (1)		●
EMC steel floor-standing enclosures	Spacial SFHF				●		
HMI control enclosures	Spacial S3CM			●			
ATEX steel wall-mounting enclosures	Spacial S3DEX						●
Steel outdoor wall-mounting enclosures	Spacial S3HD						●
Stainless steel wall-mounting enclosures	Spacial S3X				● (1)		●
Seismic and nuclear enclosures	Spacial S3D6G / Spacial S3D6GK3					●	
Terminal enclosures with FL21 cut-out	Spacial S3DBFL					● (6)	
Steel floor-standing enclosures	Spacial SM				●		
Steel suitable enclosures	Spacial SF				●		
Steel outdoor floor-standing enclosures	Spacial SFHD				●		
Stainless steel floor-standing enclosures	Spacial SMX						● (7)
Stainless steel suitable enclosures	Spacial SFX						● (7)
Functional steel floor-standing enclosures	Spacial SFP				●		
Steel control desks	Spacial SD				●		
Stainless steel control desks	Spacial SDX				●		
Thermoplastic industrial boxes	Thalassa TBS-TBP				● (4)		● (5)
Polyester modular boxes	Thalassa PLS						●
Polyester wall-mounting enclosures	Thalassa PLM						●
Polyester outdoor wall-mounting enclosures	Thalassa PHD					●	
Polyester floor-standing enclosures	Thalassa PLA (2)		●	●		●	
Polyester floor-standing enclosures	Thalassa PLD	●		● (3)			
Polyester outdoor floor-standing enclosures	Thalassa PHD				●		

(1) Double door.
(2) Different IP depending on the version. See introduction in Thalassa section: PLA: IP65, PLAT / PLAZT: IP44, PLAZ / PLAT / PLAZT with grille: IP54.
(3) With gasket.
(4) Button boxes.
(5) Universal boxes.
(6) With membrane mounted.
(7) With membrane mounted.

The universal offer

> 3 Material solutions

Steel

Stainless steel

Plastic and Polyester

Selection according to the environment

The location of the enclosures and the physical, chemical and climatic conditions to which they are exposed will determine the model to be used.

- Steel enclosures are particularly well suited to indoor use in industrial environments.
- Stainless steel enclosures are particularly well suited to corrosive environments or areas where specific hygiene demands are applicable.
- Polyester enclosures are particularly well suited to severe corrosive atmospheres, indoors or outdoors..

Enclosures made from insulating materials help guarantee total insulation, reducing electric hazards for persons.
The main characteristics of the plastic materials of our enclosures and their chemical strength are given on page 623.

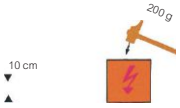
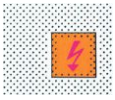
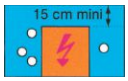
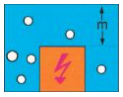
Further help for making the selection is given by the NEMA or UL classification of the enclosure, see page 620.

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Degrees of protection provided by enclosures

- The degrees of protection provided by the enclosures are defined by standards IEC 60529 (IP) and IEC 62262 (IK).
- Degrees of protection are indicated by the letters IP followed by two characteristic numerals. The numerals show the degree of protection offered by the enclosure against access to dangerous parts, the penetration of of solid bodies (1st numeral), and against the penetration of liquids (2nd numeral).
- The protection against external mechanical impact is indicated by the letters IK followed by a characteristic group numeral.

Comment:
Many EN European standards are harmonised with international IEC standards.
This is the case with enclosure protection standards:
- EN 60529 = IEC 60529.
- EN 62262 = IEC 62262.

	IP	IK
First numeral Protection against solid bodies	Second numeral Protection against liquids	Mechanical protection
0 No protection	**0** No protection	**0** No protection
1  Protected against solid bodies larger than 50 mm (e.g.: Incidental contact with the hand)	**1**  Protected against vertically falling water droplets (condensation)	**1**  Impact energy: 0.150 Joules
2  Protected against solid bodies larger than 12 mm (e.g.: Finger contact)	**2**  Protected against water droplets deflected at up to 15° from vertica	**2**  Impact energy: 0.200 Joules
3  Protected against solid bodies larger than 2.5 mm (tools, wires)	**3**  Protected against rainwater at up to 60° from vertical	**3**  Impact energy: 0.350 Joules
4  Protected against solid bodies larger than 1 mm (fine tools, small wires)	**4**  ⚠ Protection against water spray from all directions	**4**  Impact energy: 0.500 Joules
5  ❖ Protected against dust (no harmful deposits)	**5**  ⚠⚠ Protected against low-pressure water jets from all directions	**5**  Impact energy: 0.700 Joules
6  ❖ Totally dust tight	**6**  Protected against powerful water jets from all directions	**6**  Impact energy: 1.00 Joules
	7  🌢🌢 Protected against the effects of immersion	**7**  Impact energy: 2.00 Joules
	8  🌢🌢 ... m Protected against prolonged effects of immersion under pressure	**8**  Impact energy: 5.00 Joules
		9  Impact energy: 10.00 Joules
		10  Impact energy: 20.00 Joules

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Classification of electrical

Classification of electrical equipment enclosures according to NEMA and UL

NEMA and UL are standardisation bodies, commonly recognised in North America, which have issued classifications of enclosures according to the protection offered in various environments.
These classifications are similar.
The 1st table below summarises this classification, which does not include potentially explosive areas.
The detailed recommendations of this classification are given on the next page.
The 2nd table indicates the classification of our enclosures.
These classifications appear in our UL certifications (see Certification technical annex on page 620).
Certification according to the UL classification helps guarantee the corresponding NEMA classification by equivalence.

Environment and protection	Classification											
	1	2	3	3R	3S	4	4X	5	6	6P	12	13
Indoor use	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor use			●	●	●	●	●		●			
Incidental contact with the equipment	●	●	●	●	●	●	●	●	●	●	●	●
Dirt	●	●	●	●	●	●	●	●	●	●	●	●
Drips and gentle splashes of non-corrosive liquids		●	●	●	●	●	●	●	●	●	●	●
Rain, frost* and snow			●	●	●	●	●		●	●		
Frost**					●							
Dust, fibres and particles in suspension			●		●	●	●		●	●	●	●
Built-up dust, fibres and particles in suspension			●		●	●	●	●	●	●	●	●
Clouds of dust			●		●	●	●		●	●		
Splashes and jets of water						●	●		●	●		
Gentle splashes and leaks of oil or non-corrosive coolants											●	●
Drips, splashing and spraying of oil or non-corrosive coolants												●
Corrosive agents							●			●		
Occasional temporary immersion									●	●		
Occasional prolonged immersion										●		

* The operation of the external mechanisms is not required when the enclosure is covered with frost.
** The operation of the external mechanisms is required when the enclosure is covered with frost.

Enclosures		Type of protection (1)													
Name	Range	1	2	3	3R	3S	3X	3RX	3SX	4	4X	5	6	12	13
Metal industrial boxes	SBM									●	●				
HMI control enclosures	S3CM	●	●		●									●	●
Steel wall-mounting enclosures	S3D (1)	●	● (2)	● (2)	● (2)					● (2)	● (2)	●		●	●
Steel wall-mounting enclosures	S3HF	●	●	●	●									●	●
Steel outdoor wall-mounting enclosures	S3HD	●	●	●	●					●	●	●		●	●
Steel wall-mounting enclosures	CRN	●	●	●	●					●		●		●	●
Steel wall-mounting enclosures	CRNG	●	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)		●	●
Stainless steel wall-mounting enclosures	S3X	●	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)		●	● (2)
Steel floor-standing enclosures	SM	●	● (2)	● (2)	●					● (2)		● (2)		●	●
Polyester outdoor wall-mounting enclosures	PHD	●	●	●	●					● (2)	● (2)	●		●	●
Steel suitable enclosures	SF	●			●									●	
Steel outdoor floor-standing enclosures	SFHD	●			●									●	
Stainless steel floor-standing enclosures	SMX	●	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)		●	●
Stainless steel floor-standing enclosures	SFX	● (2)	● (2)	● (2)	● (2)					● (2)	● (2)	● (2)			● (2)
Thermoplastic boxes	TBP	●		●		●				●	●				
Polyester modular boxes	PLS	●	●	●	●	●				●	●			●	●
Polyester wall-mounting enclosures	PLM	●	●	●	●	●				●	●	●		●	●
Polyester floor-standing enclosures	PLA	●	●	● (2)	● (2)	● (2)	● (2)	● (2)	● (2)			● (2)		●	●

(1) Also S3DM, S3DEX and S3DC.
(2) 1 door.

Components		Type of protection (5)											
Name	Range	1	2	3	3R	3S	4	4X	5	6	6P	12	13
Ventilation system	CV											●	
Thermal regulation system	CC	●											

(5) In some ranges the classification depends on the model and version. The detailed protection types are indicated in the UL certifications.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Classification of electrical equipment

Classification of electrical equipment enclosures according to NEMA and UL





Note:
The above recommendations aim to explain the NEMA and UL classifications, but are not the official texts of NEMA or UL.
The exact definitions provided by the Organisations are those of standards NEMA 250 and UL 50E.

The enclosures must protect the equipment against environmental conditions and help protect the personnel against the risk of incidental contact with the equipment. The following classifications (Type) are required according to the required uses and prescriptions:

Type	Use	Prescription
1	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt.
2	Indoor use	It provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt, drips and gentle splashes of non-corrosive liquids.
3	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt, rain, sleet, snow, windblown and resists the formation of ice on the outside.
3R	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt, rain, sleet, snow and resists the formation of ice on the outside.
3S	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt, rain, sleet, snow and windblown dust. The external mechanism must continue to work even when layers of ice are formed.
3X	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; To provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); To provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); That provides an additional level of protection against corrosion and that will be undamaged by the external formation of ice on the enclosure.
3RX	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; To provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt); To provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); That will be undamaged by the external formation of ice on the enclosure that provides an additional level of protection against corrosion.
3SX	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; To provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); To provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); That provides an additional level of protection against corrosion; And for which the external mechanism(s) remain operable when ice laden.
4	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt, rain, sleet, snow, windblown dust, splashes and hose-directed water and resists the formation of frost on the outside.
4x	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt, rain, sleet, snow, windblown dust, splashes, hose-directed water and resists corrosion and the formation of ice on the outside.
5	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt, settling airborne dust, lint, fibres, flyings, drips and gentle splashes of non-corrosive liquids.
6	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt, rain, sleet, snow, hose-directed of water, the entry of water during occasional temporary submersion to a limited depth and resists the formation of ice on the outside.
6P	Indoor and outdoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt, rain, sleet, snow, hose-directed water, the entry of water during prolonged submersion to a limited depth and resists corrosion and the formation of ice on the outside.
12	Indoor use (without knockouts)	The enclosure provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt, dust, fluff, fibres, particles in suspension, drips and gentle splashes of non-corrosive liquids as well as gentle splashes or leaks of oil and non-corrosive coolants.
13	Indoor use	The enclosure provides protection for the personnel against incidental contact with the internal equipment and helps protect said equipment against dirt, dust, lint, fibres flyings and the spraying, splashing, and seepage leaks of water, oil or non-corrosive coolants.

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Coating properties

Polyester base coating properties



Product type

Thermosetting polyester resins based powder coating modified by epoxy resins and designed for decoration and to help prevent corrosion.
The performance of this coating is superior to conventional epoxy powders in terms of: Colour stability, temperature resistance and weather resistance.
Grey RAL 7035 grey; Appearance: Structured.

Mechanical properties

Test conditions: Steel samples with a thickness of 10/10^{e} mm.
Degreasing using biodegradable surface-active agents.
Film thickness: 60 microns.

Bonding (scratching and adhesive tape)	ISO 2409	≥ to Class 1
Ericksen stamping	ISO 1520	≥ 7 mm
Direct impact resistance	ISO 6272	> 1 kg/70 cm
Indirect impact resistance	ISO 6272	> 1 kg/20 cm
Bending around conical mandrel	ISO 6860 - ASTM D 522-88	Maximum cracking of 70 mm, without the paint coming loose

Chemical properties

Tests conducted at ambient temperature on phosphated samples covered with a 70 to 100 micron film:

Film intact.
Film attacked (blistering, yellowing, loss of gloss).

Number of months			2	4	6	8	10	12
Acid	Acetic	20 %						
	Sulphuric	30 %						
	Nitric	30 %						
	Phosphoric	30 %						
	Hydrochloric	30 %						
	Lactic	10 %						
	Citric	10 %						
Base	Soda	10 %						
	Ammonia	10 %						
Water	Distilled water							
	Sea water							
	Tap water							
	Diluted chloride bleach							
Solvents	Petrol							
	Higher alcohols							
	Aliphatics							
	Aromatics							
	Ketones-esters							
	Tri-perchlorethylene							

Physical properties

Temperature resistance: -40°C and 100 hours at +150°C (colour: White).
Gloss retention: Good.

Resistance to corrosion

Compliance with standard IEC 62208 for outdoor installations: 288 h of humid heat and 336 h of salt mist.

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Coating properties

Polyester base coating properties

Nuclear decontamination

Applicable to colours RAL 7035 grey and AFNOR A550.
Standard NFT 30901. Percentage of decontamination for contamination by fission products. Please consult us for further details.

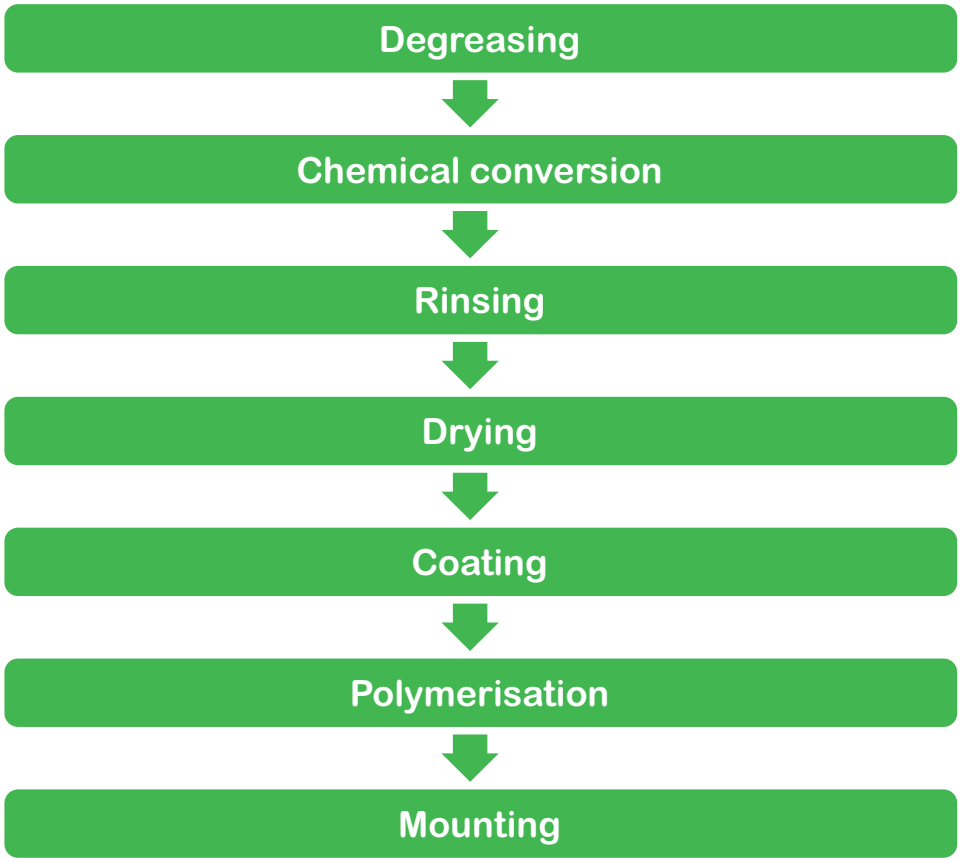
Accelerated aging

Standard IEC 62208: 500 h UV according to ISO 4892 (method A)
(adherence of the coating with minimum retention of 50% on the grid according to ISO 2409).

Fire behaviour

Class M1 (self-extinguishing material).
Class M0 (for coating on a metal base).

Manufacturing process



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Life Is On Schneider Electric

Properties of the plastic materials

Properties of the plastic materials Mechanical, electrical, physical and fire-resistance properties

Plastic materials generally used to manufacture our products:

- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester reinforced with fibreglass.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Specifications	Standards	Units	ABS	Polycarbonate	PVC	Bayblend®	Polyester	SBS
Mechanical properties								
Tensile strength	ISO 257	MPa	44	> 65	45	35	85	5
Tensile strain	ISO 527	%	12	> 110	120 bis 150	40	0	600
Impact resistance	ISO 179	kJ/m²	125	No breakage	25	No breakage	60	No breakage
Notching resistance	ISO 179	kJ/m²	19	25	20	25	50	-
Electrical properties								
Stress point	IEC 60112	-	-	250-300	> 600	> 550	> 600	-
Surface strength	IEC 60093	Ω	1015	> 1015	> 1013	> 1014	≥1012	> 1013
Dielectric strength	IEC 60243	kV/mm	16.5	> 30	30	24	18-20	20
Specific resistivity	IEC 60093	Ω³cm	1015	> 1016	≥ 1015	1016	≥ 1012	> 1016
Physical properties								
Softening temperature (Vicat B)	ISO 306	°C	95	145-150	79-80	115	(1)	80
Temperature resistance	-	°C	-40...+90	-50...+125	-20...+65	-35...+90	-50...+150	-40...+120
Water absorption	ISO 62	%	0.2 - 0.45	0.15	< 0.1	0.2	0.2	-
Specific weight	ISO 1183	kg/dm³	1.04	1.21	1.4	1.12	1.85	0.3 in 24 h
Fire resistance								
Oxygen index	ISO 4589	%	19	26	45-50	22	24.4	18
Glow wire resistance, 2 mm	IEC 60695-2-10	°C	650	960	960	750	960	750° (1.5 mm)
Glow wire resistance, 3 mm	IEC 60695-2-10	°C	650	960	960	750	960	NA

(1) No softening of the polyester.

Specifications	Standards	Units	Altuglas	Polypropylene	Polystyrene	Polyamide 6	Polyamide 12
Mechanical properties							
Tensile strength	ISO 257	MPa	30	35	24	40	30
Tensile strain	ISO 527	%	5	400	36	200	300
Impact resistance	ISO 179	kJ/m²	20	20	63	No breakage	No breakage
Notching resistance	ISO 179	kJ/m²	3	5	50	31.2	15
Electrical properties							
Stress point	IEC 60112	-	-	-	KB175	KB175	KB180
Surface strength	IEC 60093	Ω	≥ 1014	-	> 1013	1012	5 x 1010
Dielectric strength	IEC 60243	kV/mm	13-15	20	≤ 40	23	55
Specific resistivity	IEC 60093	Ω³cm	> 1015	> 1016	> 1015	1011	3 x 1011
Physical properties							
Softening temperature (Vicat B)	ISO 306	°C	120-122	75 (vicat A)	79	230	140
Temperature resistance	-	°C	-20...+80	-10...+80	-15...+60	-20...+100	-50...+125
Water absorption	ISO 62	%	< 0.5	0.1 in 24 h	0.1 in 24 h	1.6	1.5
Density	ISO 1183	kg/dm³	1.18	0.91	1.06	1.14	1.03
Fire resistance							
Oxygen index	ISO 4589	%	18.5	18	18	24	22
Glow wire resistance, 2 mm	IEC 60695-2-10	°C	-	650	650	750	650
Glow wire resistance, 3 mm	IEC 60695-2-10	°C	960	650	650	850	650

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Properties of the plastic materials

Properties of the plastic materials Resistance to chemical agents

Plastic materials generally used to manufacture our products:

- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

The table shows:
The concentration of the chemical agent in %;
- sat = saturation.

The resistance of the material:
- +: Resistant.
- O: Limited resistance.
- –: Not resistant.

Resistance to	ABS		Polycarbonate		PVC		Bayblend®		Polyester		Altuglas		Polypropylene		Polystyrene		Polyamide 6		Polyamide 12		SBS	
Acetone		–		–		–		–		–		O	100	+		–	100	+		+		+
Hydrochloric acid	15	+	10	+	30	+	20	+	30	+	sat	+	10	+		O	10	–	10	+	10	+
Citric acid			10	+	sat	+	10	+	100	+	sat	+	sat	+		+	10	O		+	10	+
Lactic acid	80	+	10	+	90	+	10	–	100	+	20	+	90	+		O	50 90	O –		+ +	sat	+
Nitric acid	30	+	10 100	+ –	50	+	10	+	20	+ +	10 100	+ –	25/ 50			O	2 10	O –		–	50	+
Phosphoric acid	85	+	100	+	sat	+		+	100	+	10 95	+ –	sat	+		O	2 10	O –	50	+		+
Sulphuric acid	50	+	50 100	+ –	96	+	30	+	70	+	30	+	96	+		O	3	–	10	+	96	+
Alcohol		O	96	+	96	+		–	50	O	50	O	96	+		+	96	O	96	+		+
Pure aniline		O		–	100	–		–		O		–	100	+			100	O	100	O		
Benzene		+	100	–		–		+		–		O	100	O			100	+		+		–
Liquid bromine			100	–		–		–					100	–					100	–		–
Liquid chlorine				-	100	-		-	sat	+		–	100	–			100	O		–	50	+
Sea water		+	100	+	100	+		+	100	+	100	+		–	100	+			100	+	sat	+
Petrol		+	100	+	100	O		–	100	+	100	O		–		–	100	+		+		–
Ether		–	100	O	100	–		–	100	O		+					100	+	100	+		–
Hexane		O		+		O		O		–			100	+			100	+	100	+		–
Oil and greases		+	100	+	100	+		O	100	+	100	O	100	+		–		+	100	+		–
Aromatic hydrocarbon		O		–		–		–		–		+	–			–		–		+		–
Fuel oil		O	100	O	100	+		–	100	+	100	–	100	+			100	+	100	+		–
Naphthalene					100	O		–	100	+	100	–	100	+			100	+	100	+		
Nitrobenzene		–		–	100	–		–				–	100	O				–		O		–
Phenol		–		–	sat	O		–	20	O		–	sat	+				–		–	10	O
Mineral salts				+		+		+		+		+		+						+		+
Iodine solution				O		–		+				–						+				
Toluene		–		–	100	–		–		+		O	100	O		–	100	+	100	+		–
Trichloroethylene		–		–	100	–		–		–		–	100	O		–	100	–	100	O		–
Urea			sat	+	sat	+		+					sat	+			10	+	sat	+	sat	O

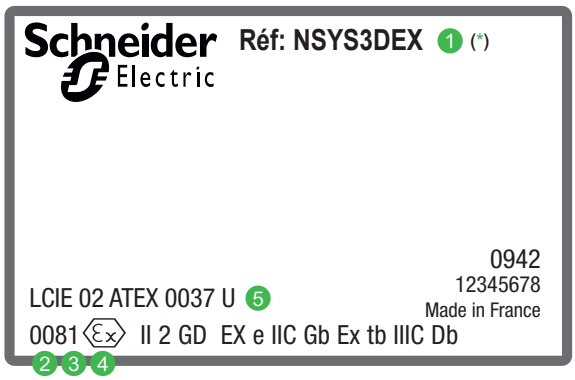
Comment:
For other chemical agents, please contact us.
All this information is taken from the best sources and provided for information purposes only, with no commitment on our behalf.

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Description of the marking label affixed

Description of the marking label affixed to ATEX certified wall-mounting enclosures

Spacial S3DEX



* with the dimensions

1 Product range

2

- **0163:** Identification No. of the notified body for application of the ATEX directive.
- **Ex:** Distinctive Community mark indicating that the product is authorized in explosive atmospheres.
- **II:** Industry Group (II = surface industry).
- **2:** Equipment category (2 = occasional presence, Zone 1 or 21).
- **GD:** Type of atmosphere (G= Gas and vapour or mist, D= Dust).

3

- **Ex:** Symbol indicating that the equipment corresponds to one or more protection methods standardized by Cénélec.
- **e:** Protection method used: e = enhanced safety (EN 60079-7).
- **IIC:** Gas group (hydrogen/acetylene).
- **Gb:** Protection method for non-electric equipment (check on power supply source). G = gas.

4

- **Ex:** Symbol indicating that the equipment corresponds to one or more protection methods standardized by Cénélec.
- **t:** Protection method used: t = protection by enclosure (EN 60079-31).
- **IIIC:** Dust group (conductive dust).
- **Db:** Protection method for non-electric equipment (check on power supply source). D = dust.

5 Name of the certification

- Name of the certification body + No. of the CE type certificate.

6 IP

- **IP66:** Degree of intrusion protection..

Download our ATEX certificates from our site.

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Spare parts Selection table

Steel industrial boxes SBM


NSYSBMABS4

Accessories	References
Bag of acces. SBM boxes 4 screws	**NSYSBMABS4**
Bag of acces. SBM boxes 6 screws	**NSYSBMABS6**

Steel wall-mounting enclosures S3D


NSYDS3D32

Doors	References
Plain door 300 x 200	**NSYDS3D32**
Plain door 300 x 250	**NSYDS3D325**
Plain door 300 x 300	**NSYDS3D33**
Plain door 300 x 400	**NSYDS3D34**
Plain door 400 x 300	**NSYDS3D43**
Plain door 400 x 400	**NSYDS3D44**
Plain door 400 x 600	**NSYDS3D46**
Plain door 500 x 300	**NSYDS3D53**
Plain door 500 x 400	**NSYDS3D54**
Plain door 500 x 500	**NSYDS3D55**
Plain door 600 x 400	**NSYDS3D64**
Plain door 600 x 500	**NSYDS3D65**
Plain door 600 x 600	**NSYDS3D66**
Plain door 600 x 800	**NSYDS3D68**
Plain door 700 x 500	**NSYDS3D75**
Plain door 800 x 600	**NSYDS3D86**
Plain door 800 x 800	**NSYDS3D88**
Plain door 800 x 1000	**NSYDS3D810**
Plain door 800 x 500 right	**NSYDS3D85R**
Plain door 800 x 500 left	**NSYDS3D85L**
Plain door 800 x 600 right	**NSYDS3D86R**
Plain door 800 x 600 left	**NSYDS3D86L**
Plain door 1000 x 600	**NSYDS3D106**
Plain door 1000 x 800	**NSYDS3D108**
Plain door 1000 x 1000	**NSYDS3D1010**
Plain door 1200 x 1000	**NSYDS3D1210**
Plain door 1000 x 500 right	**NSYDS3D105R**
Plain door 1000 x 500 left	**NSYDS3D105L**
Plain door 1000 x 600 right	**NSYDS3D106R**
Plain door 1000 x 600 left	**NSYDS3D106L**
Plain door 1200 x 600	**NSYDS3D126**
Plain door 1200 x 800	**NSYDS3D128**
Plain door 1200 x 500 right	**NSYDS3D125R**
Plain door 1200 x 500 left	**NSYDS3D125L**
Plain door 1200 x 600 right	**NSYDS3D126R**
Plain door 1200 x 600 left	**NSYDS3D126L**
Plain door 1400 x 500 right	**NSYDS3D145R**
Plain door 1400 x 500 left	**NSYDS3D145L**

Door accessories	References
Gasket double door encl.	**NSYGDD**
Set of 5 taps and latches	**NSYS3DTL**
Hinge 120°	**NSYAEDH120S3D**
Hinge 180°	**NSYAEDH180S3D**
Earthing accessories	**References**
Set of 500 earthing labels	**NSYSWMEL**
Fixing hardware cable gland plate	**References**
100 screws	**NSYS3DCGSB**
Standard screw bag	**NSYS3DCGPSTDSB**
Locking accessories	**References**
Set of 10 linkage guides	**NSYS3DLG**
Standard key DB3	**NSYAEDLS3DKDB3**
Lock + standard key DB3 neutral	**NSYAEDLS3DRLN**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
3 point lock linkage H 1200 mm	**NSYBTAS3D120**
3 point lock linkage H 1400 mm	**NSYBTAS3D140**
Lock with key type 3131A	**NSYAEDL3131AS3D**
3 point lock linkage (H = 650 mm)	**NSYBTAS3D65**
3 point lock linkage (H = 900 mm)	**NSYBTAS3D90**
Panels	**References**
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

See page 522 for details or consult our web site www.se.com

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Spare parts Selection table

Steel wall-mounting enclosures S3DM


NSYS3DCGSB

Fixing hardware	References
100 screws cable gland plate	**NSYS3DCGSB**
Standard screw bag cable gland plate	**NSYS3DCGPSTDSB**
Earthing accessories	**References**
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	**References**
Set of 10 linkage guides	**NSYS3DLG**
Standard key DB3	**NSYAEDLS3DKDB3**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
Panels WM	**References**
50 caps for holes of hinges	**NSYSWMCH**
Set of 50 back plugs	**NSYSWMBP**

Steel wall-mounting enclosures S3DC


NSYSWMEL

Earthing accessories	References
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	**References**
Set of 10 linkage guides	**NSYS3DLG**
Standard lock enclosures	**NSYAEDLS3DC**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
3 point lock linkage H 1200 mm	**NSYBTAS3D120**
Panels WM	**References**
50 caps for holes of hinges	**NSYSWMCH**
Set of 50 back plugs	**NSYSWMBP**

Steel wall-mounting enclosures S3DB


NSYSWMEL

Earthing accessories	References
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	**References**
Standard key DB3	**NSYAEDLS3DKDB3**
Panels	**References**
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Spare parts Selection table

Steel wall-mounting enclosures CRN



NSYDCRN22

Doors	References
Plain door H 200 x W 200	**NSYDCRN22**
Plain door H 200 x W 300	**NSYDCRN23**
Plain door H 250 x W 200	**NSYDCRN2520**
Plain door H 300 x W 250	**NSYDCRN3025**
Plain door H 300 x W 300	**NSYDCRN33**
Plain door H 300 x W 400	**NSYDCRN34**
Plain door H 300 x W 450	**NSYDCRN3045**
Plain door H 400 x W 300	**NSYDCRN43**
Plain door H 400 x W 400	**NSYDCRN44**
Plain door H 400 x W 600	**NSYDCRN46**
Plain door H 500 x W 400	**NSYDCRN54**
Plain door H 500 x W 500	**NSYDCRN55**
Plain door H 600 x W 400	**NSYDCRN64**
Plain door H 600 x W 500	**NSYDCRN65**
Plain door H 600 x W 600	**NSYDCRN66**
Plain door H 600 x W 800	**NSYDCRN68**
Plain door H 700 x W 500	**NSYDCRN75**
Plain door H 800 x W 600	**NSYDCRN86**
Plain door H 800 x W 800	**NSYDCRN88**
Plain door H 1000 x W 600	**NSYDCRN106**
Plain door H 1000 x W 800	**NSYDCRN108**

Door accessories	References
Standard Spacial hinge	**NSYBICRN**
Earthing accessories	**References**
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	**References**
TCRE1 Lock	**NSYTCRE1**
TCRE12 Lock	**NSYTCRE12**
Platten	**References**
Set of 50 back plugs WM	**NSYSWMBP**
Fixing hardware	**References**
Screw bag for CRN cable gland plate	**NSYCRNCGPSTDSB**
Sealing	**References**
Adhesive sealing gasket 18 x 10 2M	**NSYADG2M**
Adhesive sealing gasket 18 x 10 3M	**NSYADG3M**
Adhesive sealing gasket 18 x 10 5M	**NSYADG5M**
Adhesive sealing gasket 18 x 10 20M	**NSYADG20M**

Steel wall-mounting enclosures CRNG



NSYDCRNG86

Doors	References
Plain door H 800 x W 600	**NSYDCRNG86**
Plain door left H 800 x W 500	**NSYDCRNG85L**
Plain door right H 800 x W 500	**NSYDCRNG85R**
Plain door left H 800 x W 600	**NSYDCRNG86L**
Plain door right H 800 x W 600	**NSYDCRNG86R**
Plain door H 1000 x W 600	**NSYDCRNG106**
Plain door H 1000 x W 800	**NSYDCRNG108**
Plain door left H 1000 x W 500	**NSYDCRNG105L**
Plain door right H 1000 x W 500	**NSYDCRNG105R**
Plain door right H 1000 x W 600	**NSYDCRNG106R**
Plain door left H 1000 x W 600	**NSYDCRNG106L**
Plain door right H 1000 x W 600	**NSYDCRNG106R**
Plain door left H 1000 x W 600	**NSYDCRNG106L**
Plain door H 1200 x W 600	**NSYDCRNG126**
Plain door H 1200 x W 600	**NSYDCRNG126**
Plain door H 1200 x W 800	**NSYDCRNG128**
Plain door H 1200 x W 800	**NSYDCRNG128**
Plain door right H 1200 x W 500	**NSYDCRNG125R**
Plain door left H 1200 x W 500	**NSYDCRNG125L**
Plain door right H 1200 x W 500	**NSYDCRNG125R**
Plain door left H 1200 x W 500	**NSYDCRNG125L**
Plain door H 1200 x W 600	**NSYDCRNG126R**
Plain door left H 1200 x W 600	**NSYDCRNG126L**
Plain door H 1200 x W 600	**NSYDCRNG126R**
Plain door left H 1200 x W 600	**NSYDCRNG126L**
Plain door right H 1400 x W 500	**NSYDCRNG145R**
Plain door left H 1400 x W 500	**NSYDCRNG145L**

Doors	References
Glazed door H 800 x W 600	**NSYDCRNG86T**
Glazed door H 1000 x W 600	**NSYDCRNG106T**
Glazed door H 1000 x W 800	**NSYDCRNG108T**
Glazed door H 1000 x W 1000	**NSYDCRNG1010T**
Glazed door H 1200 x W 600	**NSYDCRNG126T**
Glazed door H 1200 x W 600	**NSYDCRNG126T**
Glazed door H 1200 x W 800	**NSYDCRNG128T**
Glazed door H 1200 x W 800	**NSYDCRNG128T**
Door accessories	**References**
Hinge 120°	**NSYAEDH120S3D**
Hinge 180°	**NSYAEDH180S3D**
Locking accessories	**References**
3 point lock linkage for Spacial CRNG (H = 800 mm)	**NSYBTACRNG80**
3 point lock linkage for Spacial CRNG (H = 1000 mm)	**NSYBTACRNG100**
3 point lock linkage for Spacial CRNG (H = 1200 mm)	**NSYBTACRNG120**
3 point lock linkage for Spacial CRNG (H = 1400 mm)	**NSYBTACRNG140**
Earthing accessories	**References**
Set of 500 earthing labels	**NSYSWMEL**
Fixing hardware cable gland plate	**References**
100 screws	**NSYS3DCGSB**
Standard screw bag	**NSYS3DCGPSTDSB**
Panels	**References**
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**
Others accessories	**References**
Screw bag for CRN cable gland plate	**NSYCRNCGPSTDSB**

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Spare parts Selection table

Steel floor-standing enclosures SF


NSYSFD207

Doors	References
Spacial SFP plain door H 2000 x W 700 mm	**NSYSFD207**
Spacial SFP transparent door H 2000 x W 700 mm	**NSYSFD207T**
Door accessories	**References**
Set of 4 Hinges and fixing elements	**NSYDHSF**
Double door stoppers (2 pieces)	**NSYTDSSF2D**
Locking accessories	**References**
Locking system for enclosures 1 single door version 1200H (right side door for double door version)	**NSYLCK12SF**
Locking system for enclosures 1 single door version 1400H	**NSYLCK14SF**
Locking system for enclosures 1 single door version 1600H (right side door for double door version)	**NSYLCK16SF**
Locking system for enclosures 1 single door version 1800H (right side door for double door version)	**NSYLCK18SF**
Locking system for enclosures 1 single door version 2000H (right side door for double door version)	**NSYLCK20SF**
Locking system for enclosures 1 single door version 2200H (right side door for double door version)	**NSYLCK22SF**
Door locking system toothed washer	**NSYLCKWSF**
Handle neutral trim	**NSYSFHNTRIM**
Handle SF	**NSYSFHS1**

Fixing hardware	References
Captive screws for panels external fixing	**NSYCSSF**
Plinth accessories	**References**
H 100 mm Plastic covers for plinth corners	**NSYPC100**
H 200 mm Plastic covers for plinth corners	**NSYPC200**
Installation accessories	**References**
Set of 2 quick cross rails 120 x 400 mm	**NSYSQCR12040**
Set of 2 quick cross rails 120 x 500 mm	**NSYSQCR12050**
Set of 2 quick cross rails 120 x 600 mm	**NSYSQCR12060**
Set of 2 quick cross rails 120 x 800 mm	**NSYSQCR12080**
Panels	**References**
Spacial SFP back panel H 2000 x W 700 mm	**NSYBP207**


NSYRSF35


NSYRSF35L

Roof	New roof (expanded)	Old roof (integrated)
Roof W 300 x D 500 mm	**NSYRSF35L**	**NSYRSF35**
Roof W 300 x D 600 mm	**NSYRSF36L**	**NSYRSF36**
Roof W 300 x D 800 mm	**NSYRSF38L**	**NSYRSF38**
Roof W 400 x D 400 mm	**NSYRSF44L**	**NSYRSF44**
Roof W 400 x D 500 mm	**NSYRSF45L**	**NSYRSF45**
Roof W 600 x D 400 mm	**NSYRSF64L**	**NSYRSF64**
Roof W 600 x D 500 mm	**NSYRSF65L**	**NSYRSF65**
Roof W 600 x D 600 mm	**NSYRSF66L**	**NSYRSF66**
Roof W 800 x D 400 mm	**NSYRSF84L**	**NSYRSF84**
Roof W 800 x D 500 mm	**NSYRSF85L**	**NSYRSF85**
Roof W 800 x D 600 mm	**NSYRSF86L**	**NSYRSF86**
Roof W 800 x D 800 mm	**NSYRSF88L**	**NSYRSF88**
Roof W 1000 x D 400 mm	**NSYRSF104L**	**NSYRSF104**
Roof W 1000 x D 500 mm	**NSYRSF105L**	**NSYRSF105**
Roof W 1000 x D 600 mm	**NSYRSF106L**	**NSYRSF106**
Roof W 1000 x D 800 mm	**NSYRSF108L**	**NSYRSF108**
Roof W 1200 x D 400 mm	**NSYRSF124L**	**NSYRSF124**
Roof W 1200 x D 500 mm	**NSYRSF125L**	**NSYRSF125**
Roof W 1200 x D 600 mm	**NSYRSF126L**	**NSYRSF126**
Roof W 1200 x D 800 mm	**NSYRSF128L**	**NSYRSF128**
Roof W 1600 x D 400 mm	**NSYRSF164L**	**NSYRSF164**
Roof W 1600 x D 500 mm	**NSYRSF165L**	**NSYRSF165**
Roof W 1600 x D 600 mm	**NSYRSF166L**	**NSYRSF166**

"New roof" accessory	References
Fix roof off-center bracket	**NSYRSFBLR**

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Spare parts Selection table

Steel floor-standing enclosures SM



NSYSMEC1041

Cable gland plates	References
1 entry W 1000 x D 400 mm	**NSYSMEC1041**
1 entry W 1000 x D 300 mm	**NSYSMEC1031**
1 entry W 1000 x D 500 mm	**NSYSMEC1051**
1 entry W 600 x D 300 mm	**NSYSMEC631**
1 entry W 600 x D 400 mm	**NSYSMEC641**
1 entry W 600 x D 500 mm	**NSYSMEC651**
1 entry W 600 x D 600 mm	**NSYSMEC661**
1 entry W 800 x D 300 mm	**NSYSMEC831**
1 entry W 800 x D 400 mm	**NSYSMEC841**
1 entry W 800 x D 500 mm	**NSYSMEC851**
1 entry W 800 x D 600 mm	**NSYSMEC861**
Doors	**Old roof integrated)**
Double plain door H 1200 x W 1000 mm	**NSYSMD12102D**
Double plain door H 1200 x W 1200 mm	**NSYSMD12122D**
Double plain door H 1400 x W 1000 mm	**NSYSMD14102D**
Double plain door H 1400 x W 1200 mm	**NSYSMD14122D**
Double plain door H 1600 x W 1000 mm	**NSYSMD16102D**
Double plain door H 1600 x W 1200 mm	**NSYSMD16122D**
Double plain door H 1800 x W 1600 mm	**NSYSMD18162D**

Door accessories	References
Set of 4 hinges and fixing elements	**NSYDHSF**
Spacial SM hinges and 2D door stop	**NSYDHSM2D**
Double door stoppers (2 pieces)	**NSYTDSSF2D**
Locking accessories	**References**
Locking system for enclosures 1 single door version 1200H (right side door for double door version)	**NSYLCK12SF**
Locking system for enclosures 1 single door version 1600H (right side door for double door version)	**NSYLCK16SF**
Locking system for enclosures 1 single door version 1800H (right side door for double door version)	**NSYLCK18SF**
Locking system for enclosures 1 single door version 2000H (right side door for double door version)	**NSYLCK20SF**
Locking system for enclosures 1 single door version 2200H (right side door for double door version)	**NSYLCK22SF**
Locking system for enclosures 1 single door version 1400H	**NSYLCK14SF**
Door locking system toothed washer	**NSYLCKWSF**
Handle neutral trim	**NSYSFHNTRIM**
Plinth accessories	**References**
H 100 mm Plastic covers for plinth corners	**NSYPC100**
H 200 mm Plastic covers for plinth corners	**NSYPC200**

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Spare parts Selection table

Stainless steel enclosuresS3X (wall-mounting)


NSYDS3X1010L

Doors	References
Left door 304L 1000 x 1000 mm	**NSYDS3X1010L**
Left door 316L 1000 x 1000 mm	**NSYDS3X1010LH**
Right door 304L 1000 x 1000 mm	**NSYDS3X1010R**
Right door 316L 1000 x 1000 mm	**NSYDS3X1010RH**
Plain door 304L 1000 x 800 mm	**NSYDS3X108**
Plain door 316L 1000 x 800 mm	**NSYDS3X108H**
Left door 304L 1200 x 1000 mm	**NSYDS3X1210L**
Left door 316L 1200 x 1000 mm	**NSYDS3X1210LH**
Right door 304L 1200 x 1000 mm	**NSYDS3X1210R**
Right door 316L 1200 x 1000 mm	**NSYDS3X1210RH**
Plain door 304L 1200 x 800 mm	**NSYDS3X128**
Plain door 316L 1200 x 800 mm	**NSYDS3X128H**
Plain door 304L 300 x 200 mm	**NSYDS3X32**
Plain door 304L 300 x 250 mm	**NSYDS3X325**
Plain door 316L 300 x 250 mm	**NSYDS3X325H**
Plain door 316L300 x 200 mm	**NSYDS3X32H**
Plain door 304L 300 x 300 mm	**NSYDS3X33**
Plain door 316L 300 x 300 mm	**NSYDS3X33H**
Plain door 304L 400 x 300 mm	**NSYDS3X43**
Plain door 316L 400 x 300 mm	**NSYDS3X43H**
Plain door 304L 400 x 400 mm	**NSYDS3X44**
Plain door 316L 400 x 400 mm	**NSYDS3X44H**
Plain door 304L 400 x 600 mm	**NSYDS3X46**

Doors	References
Plain door 316L 400 x 600 mm	**NSYDS3X46H**
Plain door 304L 500 x 400 mm	**NSYDS3X54**
Plain door 316L 500 x 400 mm	**NSYDS3X54H**
Plain door 304L 600 x 400 mm	**NSYDS3X64**
Plain door 316L 600 x 400 mm	**NSYDS3X64H**
Plain door 304L 600 x 600 mm	**NSYDS3X66**
Plain door 316L 600 x 600 mm	**NSYDS3X66H**
Plain door 304L 700 x 500 mm	**NSYDS3X75**
Plain door 316L 700 x 500 mm	**NSYDS3X75H**
Plain door 304L 800 x 600 mm	**NSYDS3X86**
Plain door 316L 800 x 600 mm	**NSYDS3X86H**
Plain door 304L 800 x 800 mm	**NSYDS3X88**
Plain door 316L 800 x 800 mm	**NSYDS3X88H**
Transp. door 304L 1000 x 800 mm	**NSYDS3X108T**
Transp. door 304L 400 x 300 mm	**NSYDS3X43T**
Transp. door 304L 500 x 400 mm	**NSYDS3X54T**
Transp. door 304L 600 x 400 mm	**NSYDS3X64T**
Transp. door 304L 700 x 500 mm	**NSYDS3X75T**
Transp. door 304L 800 x 600 mm	**NSYDS3X86T**
Door accessories	**References**
Set of 2 hinges	**NSYHS3X**
Locking accessories	**References**
Locking system 1000 mm	**NSYLSS3X10**
Locking system 1200 mm	**NSYLSS3X12**

Stainless steel enclosuresSMX ((floor-standing)


NSYDSFX1410L

Doors	References
Left door 304L 1400 x 1000 mm	**NSYDSFX1410L**
Right door 304L 1400 x 1000 mm	**NSYDSFX1410R**
Door 304L 1600 x 800 mm	**NSYDSFX168**
Door 304L 1800 x 600 mm	**NSYDSFX186**
Left door 1800 x 1200 mm	**NSYDSFX1812L**
Left door 316L 1800 x 1200 mm	**NSYDSFX1812LH**
Right door 1800 x 1200 mm	**NSYDSFX1812R**
Right door 316L 1800 x 1200 mm	**NSYDSFX1812RH**
Door 304L 1800 x 800 mm	**NSYDSFX188**
Door 316L 1800 x 800 mm	**NSYDSFX188H**
Left door 304L 1800 x 1600 mm	**NSYDSFX1816L**
Left door 316L 1800 x 1600 mm	**NSYDSFX1816LH**
Right door 304L 1800 x 1600 mm	**NSYDSFX1816R**
Right door 316L 1800 x 1600 mm	**NSYDSFX1816RH**
Left door 2000 x 1000 mm	**NSYDSFX2010L**
Left door 316L 2000 x 1000 mm	**NSYDSFX2010LH**
Right door 2000 x 1000 mm	**NSYDSFX2010R**
Right door 316L 2000 x 1000 mm	**NSYDSFX2010RH**
Door 1800 x 800 mm	**NSYDSFX206**
Left door 2000 x 1200 mm	**NSYDSFX2012L**
Left door 316L 2000 x 1200 mm	**NSYDSFX2012LH**
Right door 2000 x 1200 mm	**NSYDSFX2012R**
Right door 316L 2000 x 1200 mm	**NSYDSFX2012RH**
Door 2000 x 800 mm	**NSYDSFX208**
Left door 2000 x 1600 mm	**NSYDSFX2016L**
Left door 316L 2000 x 1600 mm	**NSYDSFX2016LH**
Right door 2000 x 1600 mm SMX	**NSYDSFX2016R**
Right door 316L 2000 x 1600 mm	**NSYDSFX2016RH**

Locking system	References
Locking system H = 1400 mm	**NSYLSSFX14**
Locking system H = 1600 mm	**NSYLSSFX16**
Locking system H = 1800 mm	**NSYLSSFX18**
Locking system H = 2000 mm	**NSYLSSFX20**
Door accessories	**References**
Double door stoppers (2 pieces)	**NSYTDSSF2D**

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Spare parts Selection table

Stainless steel enclosuresSFX (floor-standing)


NSYDSFX186

Doors	References
Door 304L 1800 x 600 mm	**NSYDSFX186**
Left door 1800 x 1200 mm	**NSYDSFX1812L**
Right door 1800 x 1200 mm	**NSYDSFX1812R**
Door 304L 1800 x 800 mm	**NSYDSFX188**
Left door 2000 x 1000 mm	**NSYDSFX2010L**
Right door 2000 x 1000 mm	**NSYDSFX2010R**
Door 1800 x 800 mm	**NSYDSFX206**
Left door 2000 x 1200 mm	**NSYDSFX2012L**
Right door 2000 x 1200 mm	**NSYDSFX2012R**
Door 2000 x 800 mm	**NSYDSFX208**
Left door 2000 x 1600 mm	**NSYDSFX2016L**
Right door 2000 x 1600 mm	**NSYDSFX2016R**

Door accessories	References
Set of 3 hinges	**NSYHSMX**
Double door stoppers (2 pieces)	**NSYTDSSF2D**
Locking accessories	**References**
Locking system H = 1400 mm	**NSYLSSFX14**
Locking system H = 1600 mm	**NSYLSSFX16**
Locking system H = 1800 mm	**NSYLSSFX18**
Locking system H = 2000 mm	**NSYLSSFX20**

Insulating materials PLA (floor-standing)


NSYDPLA55G

- For RAL 7035

Doors	References
Door 500 x 500 Lock handle type. Door opening 120°	**NSYDPLA55G**
Door 500 x 750 Lock handle type. Door opening 120°	**NSYDPLA57G**
Door 750 x 500 Lock handle type. Door opening 120°	**NSYDPLA75G**
Door 750 x 750 Lock handle type. Door opening 120°	**NSYDPLA77G**
Door 1000 x 500 Lock handle type. Door opening 120°	**NSYDPLA105G**
Door 1000 x 750 Lock handle type. Door opening 120°	**NSYDPLA107G**
Door 1250 x 500 Lock handle type. Door opening 120°	**NSYDPLA125G**
Door 1250 x 750 Lock handle type. Door opening 120°	**NSYDPLA127G**
Door 1500 x 500 Lock handle type. Door opening 120°	**NSYDPLA155G**
Door 1500 x 750 Lock handle type. Door opening 120°	**NSYDPLA157G**
Door 500 x 500 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA55HG**
Door 500 x 750 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA57HG**
Door 750 x 500 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA75HG**
Door 750 x 750 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA77HG**
Door 1000 x 500 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA105HG**
Door 1000 x 750 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA107HG**
Door 1250 x 500 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA125HG**
Door 1250 x 750 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA127HG**

- For RAL 7035

Doors	References
Door 1500 x 500 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA155HG**
Door 1500 x 750 Lock handle type. Door opening 180° + Accessory bag 120° hinge	**NSYDPLA157HG**
Door accessories	**References**
One hinge + axe for PLA (120° opening)	**NSYAEDPLA004**
Kit of axes of door PLAZT (180° opening)	**NSYAEDPLA005**
Rod guide inside the door PLA (set of 2)	**NSYAEDPLA001**
Rod guide on 1 door PLA (set of 2)	**NSYAEDPLA002G**
Rod guide on 2 doors PLA (set of 2)	**NSYAEDPLA003G**
Fixing hardware	**References**
Acc. bag for 1 door H = 500-1000 mm	**NSYASPLA001**
Acc. bag for 2 doorH = 1250-1500 mm	**NSYASPLA002**
Acc. bag for 2 door	**NSYASPLA003**
Locking accessories	**References**
Handle locking and rods H = 500 mm	**NSYVPLA5MG**
Handle locking and rods H = 750 mm	**NSYVPLA7MG**
Handle locking and rods H = 1000 mm	**NSYVPLA10MG**
Handle locking and rods H = 1250 mm	**NSYVPLA12MG**
Handle locking and rods H = 1500 mm	**NSYVPLA15MG**

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Spare parts Selection table

Insulating materials PLM (wall-mounting)


NSYDPLM32G

• For RAL 7035

Complete door (door + lock system)	References
Door without locking for PLM32	**NSYDPLM32G**
Door without locking for 2 locks PLM3025	**NSYDPLM3025G**
Door without locking for PLM43	**NSYDPLM43G**
Door without locking for PLM54	**NSYDPLM54G**
Door without locking for PLM64	**NSYDPLM64G**
Door without locking for PLM75	**NSYDPLM75G**
Door with locking for PLM86	**NSYDPLM86G**
Door without locking for PLM108	**NSYDPLM108G**
Transp. door without locking for PLM32T	**NSYDPLM32TG**
Glazed door without locking for PLM3025T	**NSYDPLM3025TG**
Glazed door without locking for PLM43T	**NSYDPLM43TG**
Glazed door without locking for PLM54T	**NSYDPLM54TG**
Glazed door without locking for PLM64T	**NSYDPLM64TG**
Glazed door without locking for PLM75T	**NSYDPLM75TG**
Glazed door without locking for PLM86T	**NSYDPLM86TG**
Glazed door without locking for PLM108T	**NSYDPLM108TG**

Door accessories	References
Door hinge for NSYPLM32	**NSYAEDHPLM32**
Door hinge for NSYPLM3025 for 2 locks door	**NSYAEDHPLM3025**
Door hinge for NSYPLM43 to 86	**NSYAEDHPLM**
Door hinge for NSYPLM108	**NSYAEDHPLM108**
Rod guides (4 pieces) for PLM108	**NSYAEDPLM108**
Fixing hardware	**References**
Acc. bag NSYPLM32	**NSYASPLM32**
Acc. bag NSYPLM43 to 86	**NSYASPLM**
Locking accessories	**References**
Locking and rods for NSYPLM108	**NSYVPLM108**

Applicative and customised solutions: HMI SD


NSYCCSDF8

Doors	References
Desk lid W 600 mm	**NSYDLSD6**
Desk lid W 800 mm	**NSYDLSD8**
Desk lid W 1000 mm	**NSYDLSD10**
Desk lid W 1200 mm	**NSYDLSD12**
Desk lid for w/console W 800 mm	**NSYDLSDF8**
Desk lid for w/console W 1000 mm	**NSYDLSDF10**
Desk lid for w/console W 1200 mm	**NSYDLSDF12**
Desk lid for w/console W 1600 mm	**NSYDLSDF16**
Folding console cover W 800 mm	**NSYCCSDF8**
Folding console cover W 1000 mm	**NSYCCSDF10**
Folding console cover W 1200 mm	**NSYCCSDF12**
Folding console cover W 1600 mm	**NSYCCSDF16**

Door accessories	References
Hinges compact control desk	**NSYHSD**
Hinges control desk w/console	**NSYHSDF**
Locking accessories	**References**
Standard handle in RAL 7011	**NSYSDH**
Lock w/DB 3 mm for frontal doors	**NSYFDLSD**
Lock w/DB 3 mm desk lids and covers	**NSYDLLSDF**
Flat escutcheon with DB 5 mm	**NSYSDFLOCKDB5**

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Spare parts Selection table

Applicative and customised solutions: HMI

Door accessories	References
Locking system	**NSYLSSDX**

Applicative and customised solutions: S3CM

Doors	References
Plain door H 200 x W 200	**NSYDCRN22**
Plain door H 200 x W 300	**NSYDCRN23**
Plain door H 250 x W 200	**NSYDCRN2520**
Plain door H 300 x W 250	**NSYDCRN3025**
Plain door H 300 x W 300	**NSYDCRN33**
Plain door H 300 x W 400	**NSYDCRN34**
Plain door H 300 x W 450	**NSYDCRN3045**
Plain door H 400 x W 300	**NSYDCRN43**
Plain door H 400 x W 400	**NSYDCRN44**
Plain door H 400 x W 600	**NSYDCRN46**
Plain door H 500 x W 500	**NSYDCRN55**
Plain door H 600 x W 600	**NSYDCRN66**
Plain door H 600 x W 800	**NSYDCRN68**
Plain door H 800 x W 600	**NSYDCRN86**

Door accessories	References
Standard Spacial hinge	**NSYBICRN**
Earthing accessories	**References**
Set of 500 earthing labels	**NSYSWMEL**

Applicative and customised solutions: EMC, S3HF



NSYSWMEL

Earthing accessories	References
Set of 500 earthing labels	**NSYSWMEL**
Locking accessories	**References**
Standard Locking system	**NSYAEDLS3HFDB3**

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Spare parts Selection table

Applicative and customised solutions: ATEX S3DEX


NSYDS3D32

Doors	References
Plain door 300 x 200	**NSYDS3D32**
Plain door 300 x 300	**NSYDS3D33**
Plain door 400 x 300	**NSYDS3D43**
Plain door 400 x 400	**NSYDS3D44**
Plain door 500 x 400	**NSYDS3D54**
Plain door 600 x 400	**NSYDS3D64**
Plain door 600 x 600	**NSYDS3D66**
Plain door 700 x 500	**NSYDS3D75**
Plain door 800 x 600	**NSYDS3D86**
Plain door 1000 x 800	**NSYDS3D108**
Earthing accessories	**References**
Set of 500 earthing labels	**NSYSWMEL**

Locking accessories	References
Set of 10 linkage guides	**NSYS3DLG**
Standard key DB3	**NSYAEDLS3DKDB3**
3 point lock linkage H 600 mm	**NSYBTAS3D60**
3 point lock linkage H 700 mm	**NSYBTAS3D70**
3 point lock linkage H 800 mm	**NSYBTAS3D80**
3 point lock linkage H 1000 mm	**NSYBTAS3D100**
Panels	**References**
50 caps for holes of hinges WM	**NSYSWMCH**
Set of 50 back plugs WM	**NSYSWMBP**

Outdoor Heavy Duty enclosures Thalassa PHD


NSYPPC74HD

Plain doors (door + lock + hinges + door retainer)	Unic door or right door References	Left door References
H 538 x W 500	**NSYDPHD55P**	-
H 788 x W 500	**NSYDPHD75P**	-
H 843 x W 750	**NSYDPHD77P**	-
H 1093 x W 500	**NSYDPHD105P**	-
H 1093 x W 750	**NSYDPHD107P**	-
H 1343 x W 500	**NSYDPHD125P**	-
H 1343 x W 750	**NSYDPHD127P**	-
H 1343 x W 1250	**NSYDPHD127P**	**NSYDPHD125LP**
H 1593 x W 750	**NSYDPHD157P**	-
H 1593 x W 1250	**NSYDPHD157P**	**NSYDPHD155LP**
H 2093 x W 750	**2 x NSYDPHD107P**	-
Ribbed doors (door + lock + hinges + door retainer)	**References**	**References**
H 538 x W 500	**NSYDPHD55R**	-
H 788 x W 500	**NSYDPHD75R**	-
H 843 x W 750	**NSYDPHD77R**	-
H 1093 x W 500	**NSYDPHD105R**	-
H 1093 x W 750	**NSYDPHD107R**	-
H 1343 x W 500	**NSYDPHD125R**	-
H 1343 x W 750	**NSYDPHD127R**	-
H 1343 x W 1250	**NSYDPHD127R**	**NSYDPHD125LR**
H 1593 x W 750	**NSYDPHD157R**	-
H 1593 x W 1250	**NSYDPHD157R**	**NSYDPHD155LR**
H 2093 x W 750	2 x **NSYDPHD107R**	-

Aluminium cable gland plate	References
For enclosure W 750 x D 420	**NSYPPC74HD**
For enclosure W 750 x D 620	**NSYPPC76HD**
For enclosure W 500 x D 420	**NSYPPC54HD**
For enclosure W 1250 x D 420	**NSYPPC54HD** + **NSYPPC74HD**
For enclosure W 1250 x D 620	**NSYPPC56HD** + **NSYPPC76HD**
Screws and nuts for PHD gland plate (10 units)	**NSYPPCPHDSN**
Door accessories	**References**
Set of 4 complete hinges for PHD	**NSYAEDPHD**
Locking accessories	**References**
Complete lock system for PHD H 500	**NSYVPHD5**
Complete lock system for PHD H 750	**NSYVPHD7**
Complete lock system for PHD H 1000	**NSYVPHD10**
Complete lock system for PHD H 1250	**NSYVPHD12**
Complete lock system for PHD H 1500	**NSYVPHD15**
Complete lock system for PHD H 2000	2 x **NSYVPHD10**

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Spare parts Selection table

Outdoor Heavy Duty enclosures Spacial S3HD

NSYTLAUHD

Heavy duty cable gland plate for enclosure	References
H 343 x W 200 x D 180	**NSYTLAUHD**
H 448 x W 300 x D 230	**NSYTLCUHD**
H 548 x W 400 x D 230	**NSYTLDUHD**
H 653 x W 400 x D 280	**NSYTLDUHD**
H 658 x W 600 x D 330	**NSYTLGUHD**
H 753 x W 500 x D 280	**NSYTLEUHD**
e H 858 x W 600 x D 330	**NSYTLGUHD**
H 862 x W 800 x D 430	2 x NSYTLDUHD
H 1062 x W 600 x D 430	**NSYTLGUHD**
H 1062 x W 800 x D 430	2 x NSYTLDUHD
Door	**References**
Door 300 x 200 S3HD, without handle	**NSYDS3HD32**
Door 400 x 300 S3HD, without handle	**NSYDS3HD43**
Door 500 x 400 S3HD, without handle	**NSYDS3HD54**
Door 600 x 400 S3HD + linkage locking syst	**NSYDS3HD64**
Door 600 x 600 S3HD + linkage locking syst	**NSYDS3HD66**
Door 700 x 500 S3HD + linkage locking syst	**NSYDS3HD75**
Door 800 x 600 S3HD + linkage locking syst	**NSYDS3HD86**
Door 800 x 800 S3HD + linkage locking syst	**NSYDS3HD88**
Door 1000 x 600 S3HD + linkage locking syst	**NSYDS3HD106**
Door 1000 x 800 S3HD + linkage locking syst	**NSYDS3HD108**

Hinge	References
S3HD hinge	**NSYAEDH120S3HD**
Canopy	**References**
Canopy for S3HD 200 (W) x 150 (P)	**NSYTJ2015HD**
Canopy for S3HD 300 (W) x 200 (P)	**NSYTJ3020HD**
Canopy for S3HD 400 (W) x 200 (P)	**NSYTJ4020HD**
Canopy for S3HD 400 (W) x 250 (P)	**NSYTJ4025HD**
Canopy for S3HD 600 (W) x 300 (P)	**NSYTJ6030HD**
Canopy for S3HD 500 (W) x 250 (P)	**NSYTJ5025HD**
Canopy for S3HD 800 (W) x 400 (P)	**NSYTJ8040HD**
Canopy for S3HD 600 (W) x 400 (P)	**NSYTJ6040HD**
Lock	**References**
Lock S3HD DB 3 mm (Escutcheon+cam+washer)	**NSYAEDLS3HDRL**

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Spare parts Selection table

Outdoor Heavy Duty enclosures Spacial SFHD



NSYSFECA64HD

Heavy duty cable gland plate for enclosure	References
H 1262 x W 600 x D 430	**NSYSFECA64HD**
H 1262 x W 800 x D 430	**NSYSFECA64HD**
H 1262 x W 1200 x D 430	2 x **NSYSFECA64HD**
H 1281 x W 600 x D 630	**NSYSFECA66HD**
H 1281 x W 800 x D 630	**NSYSFECA66HD**
H 1281 x W 1200 x D 630	2 x **NSYSFECA66HD**
H 1662 x W 800 x D 430	**NSYSFECA64HD**
H 1662 x W 1200 x D 430	2 x **NSYSFECA64HD**
H 1681 x W 600 x D 630	**NSYSFECA66HD**
H 1681 x W 800 x D 630	**NSYSFECA66HD**
H 1681 x W 1200 x D 630	2 x **NSYSFECA66HD**
H 2062 x W 800 x D 430	**NSYSFECA64HD**
Door	**References**
Plain door SFHD 1200 x 600 mm	**NSYSFDHD126**
Plain door SFHD 1200 x 800 mm	**NSYSFDHD128**
Plain door SFHD 1200 x 1200 mm	**NSYSFDHD12122D**
Plain door SFHD 1600 x 600 mm	**NSYSFDHD166**
Plain door SFHD 1600 x 800 mm	**NSYSFDHD168**
Plain door doble SFHD 1600 x 1200 mm	**NSYSFDHD16122D**
Plain door SFHD 2000 x 800 mm	**NSYSFDHD208**

Back Panel	References
SFHD 1200 x 600 mm	**NSYBPHD126**
SFHD 1200 x 800 mm	**NSYBPHD128**
SFHD 1200 x 1200 mm	**NSYBPHD12122D**
SFHD 1600 x 600 mm	**NSYBPHD166**
SFHD 1600 x 800 mm	**NSYBPHD168**
SFHD 1600 x 1200 mm	**NSYBPHD1612**
SFHD 2000 x 800 mm	**NSYBPHD208**
Canopy	**References**
SFHD 600 x 400 mm	**NSYSC64HD**
SFHD 600 x 600 mm	**NSYSC66HD**
SFHD 800 x 400 mm	**NSYSC84HD**
SFHD 800 x 600 mm	**NSYSC86HD**
SFHD 1200 x 400 mm	**NSYSC124HD**
SFHD 1200 x 600 mm	**NSYSC126HD**
Handle with 1242E cylindrical barrel	**References**
Handle SFHD 1242E	**NSYSFHS1HD**
Captive screws	**References**
Captive screws for Spacial SFHD panels	**NSYCSSFHD**

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Spare parts ClimaSys

	Air-AIR exchangers				
	 Exchanger Battery	 Fan (Fan + Capacitor)	 Frontal Cover RAL 7035 grey	 Thermostat	 Mounting Kit (instruction + full seal + screws)
References	References	References	References	References	References
NSYCEA14E	NSYCUSP0030	NSYCUSP0042	NSYCUSP0076	-	NSYCUSP0111
NSYCEA22E	NSYCUSP0177	NSYCUSP0042	NSYCUSP0181	-	NSYCUSP0184
NSYCEA36	NSYCUSP0031	NSYCUSP0044	NSYCUSP0077	NSYCUSP0100	NSYCUSP0112
NSYCEA50	NSYCUSP0032	NSYCUSP0044	NSYCUSP0077	NSYCUSP0100	NSYCUSP0112
NSYCEA80	NSYCUSP0033	NSYCUSP0138	NSYCUSP0078	NSYCUSP0100	NSYCUSP0113

	Air-WATER exchangers			
	 Exchanger Battery	 Fan (Fan + Capacitor)	 Frontal Cover RAL 7035 grey	 Frontal Cover Stainless Steel
References	References	References	References	References
NSYCEW1K	NSYCUSP0034	NSYCUSP0043	NSYCUSP0079	-
NSYCEWX1K	NSYCUSP0034	NSYCUSP0043	-	NSYCUSP0094
NSYCEW1KUL	NSYCUSP0034	NSYCUSP0043	NSYCUSP0079	-
NSYCEWX1KUL	NSYCUSP0034	NSYCUSP0043	-	NSYCUSP0094
NSYCEW1K8	NSYCUSP0035	NSYCUSP0044	NSYCUSP0080	-
NSYCEWX1K8	NSYCUSP0035	NSYCUSP0044	-	NSYCUSP0095
NSYCEW1K8UL	NSYCUSP0035	NSYCUSP0044	NSYCUSP0080	-
NSYCEWX1K8UL	NSYCUSP0035	NSYCUSP0044	-	NSYCUSP0095
NSYCEW2K5	NSYCUSP0036	NSYCUSP0136	NSYCUSP0080	-
NSYCEWX2K5	NSYCUSP0036	NSYCUSP0136	-	NSYCUSP0095
NSYCEW2K5UL	NSYCUSP0036	NSYCUSP0136	NSYCUSP0080	-
NSYCEWX2K5UL	NSYCUSP0036	NSYCUSP0136	-	NSYCUSP0095
NSYCEW3K5	NSYCUSP0037	NSYCUSP0138	NSYCUSP0081	-
NSYCEWX3K5	NSYCUSP0037	NSYCUSP0138	-	NSYCUSP0096
NSYCEW3K5UL	NSYCUSP0037	NSYCUSP0138	NSYCUSP0081	-
NSYCEWX3K5UL	NSYCUSP0037	NSYCUSP0138	-	NSYCUSP0096
NSYCEW4K5	NSYCUSP0037	NSYCUSP0137	NSYCUSP0081	-
NSYCEWX4K5	NSYCUSP0037	NSYCUSP0137	-	NSYCUSP0096
NSYCEW4K5UL	NSYCUSP0037	NSYCUSP0137	NSYCUSP0081	-
NSYCEWX4K5UL	NSYCUSP0037	NSYCUSP0137	-	NSYCUSP0096
NSYCEW6K	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6K	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW6KUL	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6KUL	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW6K2P4	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6K2P4	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW10K	NSYCUSP0039	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX10K	NSYCUSP0039	NSYCUSP0137	-	NSYCUSP0098
NSYCEW10K2P4	NSYCUSP0039	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX10K2P4	NSYCUSP0039	NSYCUSP0137	-	NSYCUSP0098
NSYCEW15K	NSYCUSP0040	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX15K	NSYCUSP0040	NSYCUSP0137	-	NSYCUSP0098
NSYCEW15K2P4	NSYCUSP0040	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX15K2P4	NSYCUSP0040	NSYCUSP0137	-	NSYCUSP0098
NSYCEW2K5R	NSYCUSP0041	NSYCUSP0053	NSYCUSP0084	-

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Spare parts ClimaSys

	Air-WATER exchangers			
				
	Thermostat	Transformer	Solenoid Valve	Mounting Kit (instruction + full seal + screws)
References	References	References	References	References
NSYCEW1K	NSYCUSP0100	-	NSYCUSP0108	NSYCUSP0114
NSYCEWX1K	NSYCUSP0100	-	NSYCUSP0108	NSYCUSP0114
NSYCEW1KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0114
NSYCEWX1KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0114
NSYCEW1K8	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEWX1K8	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEW1K8UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEWX1K8UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEW2K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEWX2K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEW2K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEWX2K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEW3K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEWX3K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEW3K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEWX3K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEW4K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEWX4K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEW4K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEWX4K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEW6K	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0125
NSYCEWX6K	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0125
NSYCEW6KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0125
NSYCEWX6KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0125
NSYCEW6K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0109	NSYCUSP0125
NSYCEWX6K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0109	NSYCUSP0125
NSYCEW10K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEWX10K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEW10K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEWX10K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEW15K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEWX15K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEW15K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEWX15K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEW2K5R	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0117

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Spare parts ClimaSys

	Cooling units: Side mounting models				
	 Evaporator Battery	 Evaporator Fan (fan + capacitor)	 Condenser Battery	 Condenser Fan (fan + capacitor)	 Compressor Kit
References	References	References	References	References	References
NSYCU300H	NSYCUSP0001	NSYCUSP0042	NSYCUSP0013	NSYCUSP0042	NSYCUSP0054
NSYCU400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCU400UL	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCUX400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCU600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCUX600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCU600UL	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCUX600UL	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCU800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCUX800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCU800UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCUX800UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCU1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1KUL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1KUL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2P4UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K2P4UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K2	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K2UL	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K2UL	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K22P4	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K22P4	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K6UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K6UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K62P4UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K62P4UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059

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Spare parts ClimaSys

	Cooling units: Side mounting models				
	 Evaporator Battery	 Evaporator Fan (fan + capacitor)	 Condenser Battery	 Condenser Fan (fan + capacitor)	 Compressor Kit
References	References	References	References	References	References
NSYCU2K	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0060
NSYCUX2K	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0060
NSYCU2KUL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0139
NSYCUX2KUL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0139
NSYCU2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0061
NSYCUX2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0061
NSYCU2K3P4UL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0062
NSYCUX2K3P4UL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0062
NSYCU3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCUX3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCU3K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCUX3K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCU4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCUX4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCU4K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCUX4K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCU6K3P4	-	-	-	-	-
NSYCU6K3P460	-	-	-	-	-
NSYCU8K3P4	-	-	-	-	-
NSYCU8K3P460	-	-	-	-	-
NSYCU10K3P4	-	-	-	-	-
NSYCU10K3P460	-	-	-	-	-
NSYCU15K3P4	-	-	-	-	-
NSYCU15K3P460	-	-	-	-	-

Technical changes reserved. Information provided without guarantee. Images are for illustrative purposes only.

Spare parts ClimaSys

	Cooling units and side mounting models				
	 Frontal Cover RAL 7035 grey	 Frontal Cover Stainless Steel	 Thermostat	Transformer	 Mounting Kit (instruction + full seal + screws)
References	References	References	References	References	References
NSYCU300H	NSYCUSP0066	-	NSYCUSP0099	-	NSYCUSP0118
NSYCU400	NSYCUSP0067	-	NSYCUSP0099	-	NSYCUSP0126
NSYCU400UL	NSYCUSP0067	-	NSYCUSP0144	-	NSYCUSP0126
NSYCUX400	-	NSYCUSP0085	NSYCUSP0099	-	NSYCUSP0126
NSYCU600	NSYCUSP0068	-	NSYCUSP0099	-	NSYCUSP0127
NSYCUX600	-	NSYCUSP0086	NSYCUSP0099	-	NSYCUSP0127
NSYCU600UL	NSYCUSP0068	-	NSYCUSP0144	-	NSYCUSP0127
NSYCUX600UL	-	NSYCUSP0086	NSYCUSP0144	-	NSYCUSP0127
NSYCU800	NSYCUSP0069	-	NSYCUSP0099	-	NSYCUSP0119
NSYCUX800	-	NSYCUSP0087	NSYCUSP0099	-	NSYCUSP0119
NSYCU800UL	NSYCUSP0069	-	NSYCUSP0144	-	NSYCUSP0119
NSYCUX800UL	-	NSYCUSP0087	NSYCUSP0144	-	NSYCUSP0119
NSYCU1K	NSYCUSP0069	-	NSYCUSP0099	-	NSYCUSP0119
NSYCUX1K	-	NSYCUSP0087	NSYCUSP0099	-	NSYCUSP0119
NSYCU1KUL	NSYCUSP0069	-	NSYCUSP0144	-	NSYCUSP0119
NSYCUX1KUL	-	NSYCUSP0087	NSYCUSP0144	-	NSYCUSP0119
NSYCU1K2P4	NSYCUSP0069	-	NSYCUSP0099	NSYCUSP0101	NSYCUSP0119
NSYCUX1K2P4	-	NSYCUSP0087	NSYCUSP0099	NSYCUSP0101	NSYCUSP0119
NSYCU1K2P4UL	NSYCUSP0069	-	NSYCUSP0144	NSYCUSP0173	NSYCUSP0119
NSYCUX1K2P4UL	-	NSYCUSP0087	NSYCUSP0144	NSYCUSP0173	NSYCUSP0119
NSYCU1K2	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX1K2	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU1K2UL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX1K2UL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU1K22P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0102	NSYCUSP0120
NSYCUX1K22P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0102	NSYCUSP0120
NSYCU1K6	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX1K6	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU1K6UL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX1K6UL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU1K62P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0103	NSYCUSP0120
NSYCUX1K62P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0103	NSYCUSP0120
NSYCU1K62P4UL	NSYCUSP0070	-	NSYCUSP0144	NSYCUSP0174	NSYCUSP0120
NSYCUX1K62P4UL	-	NSYCUSP0088	NSYCUSP0144	NSYCUSP0174	NSYCUSP0120

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Spare parts ClimaSys

	Cooling units and side mounting models				
					
	Frontal Cover RAL 7035 grey	Frontal Cover Stainless Steel	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
References	References	References	References	References	References
NSYCU2K	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX2K	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU2KUL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX2KUL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU2K3P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0104	NSYCUSP0120
NSYCUX2K3P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0104	NSYCUSP0120
NSYCU2K3P4UL	NSYCUSP0070	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0120
NSYCUX2K3P4UL	-	NSYCUSP0088	NSYCUSP0144	NSYCUSP0147	NSYCUSP0120
NSYCU3K3P4	NSYCUSP0071	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCUX3K3P4	-	NSYCUSP0089	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCU3K3P4UL	NSYCUSP0071	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCUX3K3P4UL	-	NSYCUSP0089	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCU4K3P4	NSYCUSP0071	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCUX4K3P4	-	NSYCUSP0089	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCU4K3P4UL	NSYCUSP0071	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCUX4K3P4UL	-	NSYCUSP0089	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCU6K3P4	-	-	NSYCUSP0099	-	-
NSYCU6K3P460	-	-	NSYCUSP0099	-	-
NSYCU8K3P4	-	-	NSYCUSP0099	-	-
NSYCU8K3P460	-	-	NSYCUSP0099	-	-
NSYCU10K3P4	-	-	NSYCUSP0099	-	-
NSYCU10K3P460	-	-	NSYCUSP0099	-	-
NSYCU15K3P4	-	-	NSYCUSP0099	-	-
NSYCU15K3P460	-	-	NSYCUSP0099	-	-

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Spare parts ClimaSys

	Cooling units: Roof mount				
	 Evaporator battery	 Evaporator fan (fan + capacitor)	 Condenser battery	 Condenser fan (fan + capacitor)	 Compressor kit
References	References	References	References	References	References
NSYCU400R	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0064
NSYCUX400R	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0064
NSYCU400RUL	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0172
NSYCU800R	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCUX800R	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCU800RUL	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCU1K2R	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCUX1K2R	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCU1K2RUL	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCU1K5R	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCUX1K5R	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCU1K5RUL	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCU2K3P4R	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0061
NSYCUX2K3P4R	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0061
NSYCU2K3P4RUL	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0062
NSYCU2KR	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0060
NSYCUX2KR	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0060
NSYCU3K3P4R	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCUX3K3P4R	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCU3K3P4RUL	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCU4K3P4R	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063
NSYCUX4K3P4R	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063
NSYCU4K3P4RUL	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063

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Spare parts ClimaSys

	Cooling units: Roof mount				
					
	Frontal cover RAL 7035 grey	Frontal cover stainless steel	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
References	References	References	References	References	References
NSYCU400R	NSYCUSP0072	-	NSYCUSP0099	-	NSYCUSP0121
NSYCUX400R	-	NSYCUSP0090	NSYCUSP0099	-	NSYCUSP0121
NSYCU400RUL	NSYCUSP0072	-	NSYCUSP0144	-	NSYCUSP0121
NSYCU800R	NSYCUSP0073	-	NSYCUSP0099	-	NSYCUSP0122
NSYCUX800R	-	NSYCUSP0091	NSYCUSP0099	-	NSYCUSP0122
NSYCU800RUL	NSYCUSP0073	-	NSYCUSP0144	-	NSYCUSP0122
NSYCU1K2R	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX1K2R	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU1K2RUL	NSYCUSP0074	-	NSYCUSP0144	-	NSYCUSP0129
NSYCU1K5R	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX1K5R	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU1K5RUL	NSYCUSP0074	-	NSYCUSP0144	-	NSYCUSP0129
NSYCU2K3P4R	NSYCUSP0074	-	NSYCUSP0099	NSYCUSP0104	NSYCUSP0129
NSYCUX2K3P4R	-	NSYCUSP0092	NSYCUSP0099	NSYCUSP0104	NSYCUSP0129
NSYCU2K3P4RUL	NSYCUSP0074	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0129
NSYCU2KR	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX2KR	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU3K3P4R	NSYCUSP0075	-	NSYCUSP0099	NSYCUSP0106	NSYCUSP0123
NSYCUX3K3P4R	-	NSYCUSP0093	NSYCUSP0099	NSYCUSP0106	NSYCUSP0123
NSYCU3K3P4RUL	NSYCUSP0075	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0123
NSYCU4K3P4R	NSYCUSP0075	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0123
NSYCUX4K3P4R	-	NSYCUSP0093	NSYCUSP0099	NSYCUSP0105	NSYCUSP0123
NSYCU4K3P4RUL	NSYCUSP0075	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0123

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Spare parts ClimaSys

	Cooling units: Heavy duty				
	 Evaporator battery	 Evaporator fan (fan + capacitor)	 Condenser battery	 Condenser fan (fan + capacitor)	 Compressor kit
References	References	References	References	References	References
NSYCUHD400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0158	NSYCUSP0042	NSYCUSP0055
NSYCUHD600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0159	NSYCUSP0044	NSYCUSP0056
NSYCUHD800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0160	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0161	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0161	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0162	NSYCUSP0138	NSYCUSP0059
NSYCUHD1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0162	NSYCUSP0138	NSYCUSP0059
NSYCUHD2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0163	NSYCUSP0138	NSYCUSP0061
NSYCUHD3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0164	NSYCUSP0137	NSYCUSP0062
NSYCUHD4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0165	NSYCUSP0137	NSYCUSP0063

	Cooling units: Heavy duty			
	 Frontal cover RAL 7035 grey	 Thermostat	Transformer	 Mounting Kit (instruction + full seal + screws)
References	References	References	References	References
NSYCUHD400	NSYCUSP0167	NSYCUSP0100	-	NSYCUSP0153
NSYCUHD600	NSYCUSP0168	NSYCUSP0100	-	NSYCUSP0154
NSYCUHD800	NSYCUSP0169	NSYCUSP0100	-	NSYCUSP0155
NSYCUHD1K	NSYCUSP0169	NSYCUSP0100	-	NSYCUSP0155
NSYCUHD1K2P4	NSYCUSP0169	NSYCUSP0100	NSYCUSP0101	NSYCUSP0155
NSYCUHD1K6	NSYCUSP0170	NSYCUSP0100	-	NSYCUSP0156
NSYCUHD1K62P4	NSYCUSP0170	NSYCUSP0100	NSYCUSP0103	NSYCUSP0156
NSYCUHD2K3P4	NSYCUSP0170	NSYCUSP0100	NSYCUSP0104	NSYCUSP0156
NSYCUHD3K3P4	NSYCUSP0171	NSYCUSP0100	NSYCUSP0105	NSYCUSP0157
NSYCUHD4K3P4	NSYCUSP0171	NSYCUSP0100	NSYCUSP0105	NSYCUSP0157

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Spare parts ClimaSys

	Cooling units: Slim					
	 Evaporator battery	 Evaporator fan (fan + capacitor)	 Condenser battery	 Condenser fan (fan + capacitor)	 Compressor kit	
References	References	References	References	References	References	
NSYCUS1K1UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059	
NSYCUSX1K1UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059	
NSYCUS1K12P4UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059	
NSYCUSX1K12P4UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059	
NSYCUS1K5UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059	
NSYCUSX1K5UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059	
NSYCUS1K52P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059	
NSYCUSX1K52P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059	
NSYCUS2KUL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0139	
NSYCUSX2KUL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0139	
NSYCUS2K3P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0062	
NSYCUSX2K3P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0062	
NSYCUS2K5UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0140	
NSYCUSX2K5UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0140	
NSYCUS2K53P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0062	
NSYCUSX2K53P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0062	
NSYCUS3K2UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0141	
NSYCUSX3K2UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0141	
NSYCUS3K23P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0063	
NSYCUSX3K23P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0063	

	Cooling units: Slim							
	 Frontal cover RAL 7035 grey	 Frontal cover stainless steel	 Thermostat	Transformer	 Mounting kit (instruction + full seal + screws)	 Metal frame kit (frame + seal + screws)	 Metal frame kit stainless steel (frame + seal + screws)	
References	References	References	References	References	References	References	References	
NSYCUS1K1UL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUSX1K1UL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUS1K12P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0145	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUSX1K12P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0145	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUS1K5UL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUSX1K5UL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUS1K52P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0146	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUSX1K52P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0146	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUS2KUL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUSX2KUL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUS2K3P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUSX2K3P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0147	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUS2K5UL	NSYCUSP0143	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUSX2K5UL	-	NSYCUSP0151	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUS2K53P4UL	NSYCUSP0143	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUSX2K53P4UL	-	NSYCUSP0151	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUS3K2UL	NSYCUSP0143	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUSX3K2UL	-	NSYCUSP0151	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUS3K23P4UL	NSYCUSP0143	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	
NSYCUSX3K23P4UL	-	NSYCUSP0151	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166	

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Life Is On | Schneider Electric

Schneider Electric Industries SAS
35, rue Joseph Monier
CS 30323
92506 Rueil Malmaison Cedex
France

RCS Nanterre 954 503 439
Capital social 896 313 776
se.com

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