

Product data sheet

Characteristics

ABL8RPS24050

regulated SMPS - 1 or 2-phase - 100..500 V - 24 V - 5 A

Product availability : Stock - Normally stocked in distribution facility



Price* : 360.00 USD



Main

Range of product	Phaseo
Product or component type	Power supply
Power supply type	Regulated switch mode
Input voltage	100...120 V AC single phase, terminal(s): N-L1 200...500 V AC phase to phase, terminal(s): L1-L2
Output voltage	24 V DC
Rated power in W	120 W
Provided equipment	Power factor correction filter conforming to IEC 61000-3-2
Power supply output current	5 A
Output protection type	Against overload, protection technology: manual or automatic reset Against overvoltage, protection technology: 30...32 V, manual reset Against short-circuits, protection technology: manual or automatic reset Against undervoltage, protection technology: tripping if $U < 21.6$ V Thermal, protection technology: automatic reset
Ambient air temperature for operation	122...140 °F (50...60 °C) with -13...122 °F (-25...50 °C) without

Complementary

Input voltage limits	170...550 V 85...132 V
Network frequency	47...63 Hz
Inrush current	≤ 30 A 2 ms
Cos phi	0.51 at 240 V 0.59 at 120 V
Efficiency	87...100 %
Output voltage limits	24...28.8 V adjustable
Power dissipation in W	15.5 W
Line and load regulation	1...3 %

Holding time	>= 120 ms at 400 V >= 20 ms at 100 V >= 40 ms at 240 V
Permissible temporary current boost	1.5 x In for 4 s
Connections - terminals	Screw type terminals input connection, connection capacity: 3 x 0.5...3 x 4 mm ² AWG 22...AWG 12 Screw type terminals input ground connection, connection capacity: 1 x 0.5...1 x 4 mm ² AWG 22...AWG 12 Screw type terminals output connection, connection capacity: 4 x 0.5...4 x 4 mm ² AWG 22...AWG 12 Screw type terminals output ground connection, connection capacity: 1 x 0.5...1 x 4 mm ² AWG 22...AWG 12 Removable screw terminal block diagnostic relay, connection capacity: 2 x 2.5 mm ²
Marking	CE
Mounting support	35 x 7.5 mm symmetrical DIN rail 35 x 15 mm symmetrical DIN rail
Operating position	Vertical
Operating altitude	6561.68 ft (2000 m)
Output coupling	Series Parallel
Name of test	Harmonic current emission conforming to EN/IEC 61000-3-2 Conducted emissions on the power line conforming to EN 55022 Class B Electrostatic discharges conforming to EN/IEC 61000-4-2 Induced electromagnetic field conforming to EN/IEC 61000-4-6 Magnetic field conforming to EN 61000-4-8 Primary outage conforming to IEC 61000-4-11 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 Radiated emissions conforming to EN 55022 Class B Rapid transient conforming to IEC 61000-4-4 Surge conforming to EN/IEC 61000-4-5
Status LED	1 LED green and red output voltage 1 LED green, red and orange output current
Depth	4.72 in (120 mm)
Height	5.63 in (143 mm)
Width	2.2 in (56 mm)
Product weight	1.54 lb(US) (0.7 kg)

Environment

Product certifications	RCM CB Scheme KC EAC
Standards	CSA C22.2 No 60950-1 UL 508
Environmental characteristic	EMC conforming to EN 61000-6-1 EMC conforming to EN 61000-6-3 EMC conforming to EN/IEC 61000-6-2 EMC conforming to EN/IEC 61000-6-4 EMC conforming to EN/IEC 61204-3 Safety conforming to EN/IEC 60950-1 Safety conforming to EN/IEC 61204-3 Safety conforming to SELV
IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for storage	-40...158 °F (-40...70 °C)
Relative humidity	0...90 % during operation 0...95 % in storage
Overvoltage category	Class I conforming to VDE 0106-1
Dielectric strength	Between input and ground Between output and ground Between input and output

Ordering and shipping details

Category	22525 - ABL8 AND ABL7 POWER SUPPLIE
Discount Schedule	CP12

GTIN	00785901593683
Nbr. of units in pkg.	1
Package weight(Lbs)	1.97
Returnability	Y
Country of origin	PH

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0501 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
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