

LC1D183BD

IEC contactor, TeSys Deca, nonreversing,
18A, 10HP at 480VAC, 3 phase, 3 pole, 3 NO,
24VDC coil, open style





Main

Range	TeSys TeSys Deca
Product name	TeSys D TeSys Deca
Product or Component Type	Contacteur
Device short name	LC1D
Contacteur application	Resistive load Motor control
Utilisation category	AC-4 AC-1 AC-3 AC-3e
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC
[Ie] rated operational current	18 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit 32 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit 18 A 140 °F (60 °C)) <= 440 V AC AC-3e power circuit
Motor power kW	4 KW 220...230 V AC 50/60 Hz AC-3) 7.5 KW 380...400 V AC 50/60 Hz AC-3) 9 KW 415...440 V AC 50/60 Hz AC-3) 10 KW 500 V AC 50/60 Hz AC-3) 10 KW 660...690 V AC 50/60 Hz AC-3) 4 KW 400 V AC 50/60 Hz AC-4) 4 KW 220...230 V AC 50/60 Hz AC-3e) 7.5 KW 380...400 V AC 50/60 Hz AC-3e) 9 KW 415...440 V AC 50/60 Hz AC-3e) 10 KW 500 V AC 50/60 Hz AC-3e) 10 kW 660...690 V AC 50/60 Hz AC-3e)
Motor power HP (UL / CSA)	1 Hp 115 V at AC 50/60 Hz for 1 phase 3 Hp 230/240 V at AC 50/60 Hz for 1 phase 5 Hp 200/208 V at AC 50/60 Hz for 3 phase 5 Hp 230/240 V at AC 50/60 Hz for 3 phase 10 Hp 460/480 V at AC 50/60 Hz for 3 phase 15 hp 575/600 V at AC 50/60 Hz for 3 phase
Control circuit type	DC standard
[Uc] control circuit voltage	24 V DC
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overtoltage category	III
[Ith] conventional free air thermal current	25 A 140 °F (60 °C) power circuit 10 A 140 °F (60 °C) signalling circuit
Irms rated making capacity	140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 300 A 440 V power circuit IEC 60947
Rated breaking capacity	300 A 440 V power circuit IEC 60947
[Icw] rated short-time withstand current	145 A 104 °F (40 °C) - 10 s power circuit 240 A 104 °F (40 °C) - 1 s power circuit 40 A 104 °F (40 °C) - 10 min power circuit 84 A 104 °F (40 °C) - 1 min power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit
Associated fuse rating	10 A gG signalling circuit IEC 60947-5-1 50 A gG <= 690 V type 1 power circuit 35 A gG <= 690 V type 2 power circuit
Average impedance	2.5 mOhm - Ith 25 A 50 Hz power circuit

[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Electrical durability	1.65 Mcycles 18 A AC-3 <= 440 V 1 Mcycles 32 A AC-1 <= 440 V 1.65 Mcycles 25 A AC-3e <= 440 V
Power dissipation per pole	2.5 W AC-1 0.8 W AC-3 0.8 W AC-3e
Front cover	With
Mounting Support	Plate Rail
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1
Product Certifications	LROS (Lloyds register of shipping) GL UL DNV RINA CCC CSA GOST BV UKCA
Connections - terminals	Control circuit spring terminals 1 0.00 in ² (2.5 mm ²)flexible without cable end Control circuit spring terminals 2 0.00 in ² (2.5 mm ²)flexible without cable end Power circuit spring terminals 1 0.01 in ² (4 mm ²)flexible without cable end Power circuit spring terminals 2 0.01 in ² (4 mm ²)flexible without cable end
Operating time	53.55...72.45 ms closing 16...24 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	30 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)

Complementary

Coil technology	With integral suppression device
Control circuit voltage limits	0.1...0.25 Uc -40...158 °F (-40...70 °C) drop-out DC 0.7...1.25 Uc -40...140 °F (-40...60 °C) operational DC 1...1.25 Uc 140...158 °F (60...70 °C) operational DC
Time constant	28 ms
Inrush power in W	5.4 W 68 °F (20 °C))
Hold-in power consumption in W	5.4 W 68 °F (20 °C)
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Non-overlap time	1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Insulation resistance	> 10 MOhm signalling circuit

Environment

IP degree of protection	IP20 front face IEC 60529
Climatic withstand	IACS E10 IEC 60947-1 Annex Q category D
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms
Height	3.90 in (99 mm)
Width	1.77 in (45 mm)
Depth	3.98 in (101 mm)
Net Weight	1.08 lb(US) (0.49 kg)



Ordering and shipping details

Category	22355-CTR, TESYS D, OPEN, 9-38A DC
Discount Schedule	I12
GTIN	3389110806953
Nbr. of units in pkg.	1
Package weight(Lbs)	21.59 oz (612.0 g)
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.28 in (5.8 cm)
Package 1 width	4.33 in (11 cm)
Package 1 Length	4.84 in (12.3 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	21.49 lb(US) (9.746 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Unit Type of Package 3	PAL
Number of Units in Package 3	240
Package 3 Weight	359.13 lb(US) (162.9 kg)
Package 3 Height	30.31 in (77 cm)
Package 3 width	31.50 in (80 cm)
Package 3 Length	23.62 in (60 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes

RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
PVC free	Yes
Contractual warranty	
Warranty	18 months