

LC1D386CD

IEC contactor, TeSys Deca, nonreversing,
38A, 20HP at 480VAC, 3 phase, 3 pole, 3 NO,
36VDC coil, open style



Main

Range	TeSys TeSys Deca
Range of Product	TeSys Deca
Product or Component Type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC
[Ie] rated operational current	50 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit 38 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit 38 A 140 °F (60 °C)) <= 440 V AC AC-3e power circuit
[Uc] control circuit voltage	36 V DC

Complementary

Motor power kW	18.5 KW 500 V AC 50/60 Hz AC-3) 18.5 KW 660...690 V AC 50/60 Hz AC-3) 7.5 KW 400 V AC 50/60 Hz AC-4) 18.5 KW 380...400 V AC 50/60 Hz AC-3) 9 KW 220...230 V AC 50/60 Hz AC-3) 18.5 KW 415...440 V AC 50/60 Hz AC-3) 18.5 KW 500 V AC 50/60 Hz AC-3e) 18.5 KW 660...690 V AC 50/60 Hz AC-3e) 18.5 KW 380...400 V AC 50/60 Hz AC-3e) 9 KW 220...230 V AC 50/60 Hz AC-3e) 18.5 KW 415...440 V AC 50/60 Hz AC-3e)
Maximum Horse Power Rating	10 Hp 230/240 V at AC 50/60 Hz for 3 phase 10 Hp 200/208 V at AC 50/60 Hz for 3 phase 5 Hp 240 V at AC 50/60 Hz for 1 phase 20 Hp 480 V at AC 50/60 Hz for 3 phase 25 hp 600 V at AC 50/60 Hz for 3 phase
Compatibility code	LC1D
Pole contact composition	3 NO
Contact compatibility	M4
Protective cover	With
[Ith] conventional free air thermal current	10 A 140 °F (60 °C) signalling circuit 50 A 140 °F (60 °C) power circuit
Irms rated making capacity	140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 550 A 440 V power circuit IEC 60947
Rated breaking capacity	550 A 440 V power circuit IEC 60947

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[Icw] rated short-time withstand current	60 A 104 °F (40 °C) - 10 min power circuit 430 A 104 °F (40 °C) - 1 s power circuit 150 A 104 °F (40 °C) - 1 min power circuit 310 A 104 °F (40 °C) - 10 s 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 63 A gG ≤ 690 V type 1 power circuit 63 A gG ≤ 690 V type 2 power circuit
Average impedance	2 mOhm - Ith 50 A 50 Hz power circuit
Power dissipation per pole	5 W AC-1 3 W AC-3 3 W AC-3e
[Ui] rated insulation voltage	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 Power circuit 690 V IEC 60947-4-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 2000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	30 Mcycles
Electrical durability	1.4 Mcycles 50 A AC-1 ≤ 440 V 1.4 Mcycles 38 A AC-3 ≤ 440 V 1.4 Mcycles 38 A AC-3e ≤ 440 V
Control circuit type	DC standard
Coil technology	Built-in bidirectional peak limiting diode suppressor
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
Inrush power in W	5.4 W 68 °F (20 °C))
Hold-in power consumption in W	5.4 W 68 °F (20 °C)
Operating time	16...24 ms opening 53.55...72.45 ms closing
Time constant	28 ms
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Connections - terminals	Control circuit lugs-ring terminals 0.31 in (8 mm) Power circuit lugs-ring terminals 0.39 in (10 mm)
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 22.13 lbf.in (2.5 N.m) lugs-ring terminals flat Ø 8 mm M4 Power circuit 22.13 lbf.in (2.5 N.m) lugs-ring terminals Philips No 2 M4 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 22.13 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2
Auxiliary contact composition	1 NO + 1 NC
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 voltage	17 V signalling circuit
Minimum switching current	5 mA signalling circuit
Insulation resistance	> 10 MOhm 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
Mounting Support	Plate Rail

Environment

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	UL DNV GL CCC LROS (Lloyds register of shipping) RINA GOST CSA BV
IP degree of protection	IP20 front face IEC 60529
Protective treatment	THIEC 60068-2-30
Climatic withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
Permissible ambient air temperature around the device	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor closed 15 Gn for 11 ms) Shocks contactor open 8 Gn for 11 ms)
Height	3.35 in (85 mm)
Width	1.77 in (45 mm)
Depth	3.98 in (101 mm)
Net Weight	1.19 lb(US) (0.54 kg)

Ordering and shipping details

Category	22355-CTR, TESYS D, OPEN, 9-38A DC
Discount Schedule	I12
GTIN	3389110808315
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.29 in (10.9 cm)
Package 1 Width	3.54 in (9.0 cm)
Package 1 Length	2.13 in (5.4 cm)
Package 1 Weight	19.19 oz (544.0 g)

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
China RoHS Regulation	 China RoHS Declaration

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