

LC1D50F7

IEC contactor, TeSys D, nonreversing, 50A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 110VAC 50/60Hz coil, open



Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-4 AC-3 AC-3e AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	80 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit 50 A 140 °F (60 °C)) <= 440 V AC AC-3e power circuit 50 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit
[Uc] control circuit voltage	110 V DC

Complementary

Motor power kW	25 KW 415 V AC 50 Hz AC-3) 30 KW 440 V AC 50 Hz AC-3) 30 KW 500 V AC 50 Hz AC-3) 33 KW 660...690 V AC 50 Hz AC-3) 15 KW 220...230 V AC 50 Hz AC-3) 11 KW 400 V AC 50 Hz AC-4) 30 KW 1000 V AC 50 Hz AC-3) 22 KW 380...400 V AC 50 Hz AC-3e) 25 KW 415 V AC 50 Hz AC-3e) 30 KW 440 V AC 50 Hz AC-3e) 30 KW 500 V AC 50 Hz AC-3e) 33 KW 660...690 V AC 50 Hz AC-3e) 15 KW 220...230 V AC 50 Hz AC-3e) 30 KW 1000 V AC 50 Hz AC-3e) 25 KW 415 V AC 50 Hz 22 kW 380...400 V AC 50 Hz
Maximum Horse Power Rating	7.5 Hp 230/240 V at AC 60 Hz for 1 phase 15 Hp 200/208 V at AC 60 Hz for 3 phase 15 Hp 230/240 V at AC 60 Hz for 3 phase 40 Hp 460/480 V at AC 60 Hz for 3 phase 40 Hp 575/600 V at AC 60 Hz for 3 phase 3 hp 115 V at AC 60 Hz for 1 phase
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	80 A 140 °F (60 °C) power circuit 10 A 140 °F (60 °C) control circuit
Irms rated making capacity	140 A AC control circuit IEC 60947-5-1 900 A 440 V power circuit IEC 60947 250 A DC control circuit IEC 60947-5-1
Rated breaking capacity	900 A 440 V power circuit IEC 60947

Associated fuse rating	100 A gG ≤ 690 V type 1 power circuit 100 A gG ≤ 690 V type 2 power circuit IEC 60947-5-1 10 A gG control circuit IEC 60947-5-1
Power dissipation per pole	9.6 W AC-1 3.7 W AC-3e 3.7 W AC-3
[Ui] rated insulation voltage	Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL IEC 60947-1 Control circuit 690 V IEC 60947-1 Power circuit 690 V CSA IEC 60947-1 Control circuit 600 V CSA
Overvoltage category	III
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
Mechanical durability	10000000 cycles
Control circuit type	DC standard
Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.8...1.1 Uc -40...140 °F (-40...60 °C) operational AC 50 Hz 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 60 Hz 1...1.1 Uc 140...158 °F (60...70 °C) operational AC 50/60 Hz 0.75...1.25 Uc -40...140 °F (-40...60 °C) operational DC 0.1...0.3 Uc -40...158 °F (-40...70 °C) drop-out DC
Inrush power in VA	160 VA 0.75 68 °F (20 °C))
Inrush power in W	19 W 68 °F (20 °C))
Hold-in power consumption in VA	15 VA 50 Hz 0.3 68 °F (20 °C))
Hold-in power consumption in W	7.4 W 68 °F (20 °C)
Operating time	12...26 ms closing 50 ms closing 20 ms opening
Time constant	34 ms
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Connections - terminals	Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) rigid without cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) flexible without cable end Control circuit screw clamp terminals 1 0.00...0.00 in ² (1...2.5 mm ²) flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²) flexible with cable end Power circuit screw terminals 1 0.00...0.04 in ² (2.5...25 mm ²) rigid Power circuit screw terminals 2 0.00...0.02 in ² (2.5...16 mm ²) rigid without cable end Power circuit screw terminals 1 0.00...0.04 in ² (2.5...25 mm ²) flexible without cable end Power circuit screw terminals 2 0.00...0.02 in ² (2.5...16 mm ²) flexible without cable end Power circuit screw terminals 1 0.00...0.04 in ² (2.5...25 mm ²) flexible with cable end Power circuit screw terminals 2 0.00...0.02 in ² (2.5...10 mm ²) flexible with cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) rigid Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) rigid
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips No 2 Power circuit 44.25 lbf.in (5 N.m) screw terminal flat Ø 6 to Ø 8 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm
Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	Mirror contact 1 NC IEC 60947-4-1 Mechanically linked 1 NO + 1 NC IEC 60947-5-1
Minimum switching voltage	17 V control circuit
Minimum switching current	5 mA control circuit
Insulation resistance	> 10 MOhm control circuit
Non-overlap time	1.5 Ms on energisation between NC and NO contacts 1.5 ms on de-energisation between NC and NO contacts
Mounting Support	Rail Rail

Environment

Standards	CSA C22.2 No 14 IEC 60947-4-1 IEC 60947-5-1 EN 60947-5-1 EN 60947-4-1
Product Certifications	GL LROS (Lloyds register of shipping) RINA CCC BV DNV GOST CSA UKCA GL
IP degree of protection	IP2X VDE 0106 IP2X IEC 60529
Climatic withstand	IACS E10 exposure to damp heat
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	Shocks contactor closed 15 Gn for 11 ms) Vibrations contactor opened 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor opened 10 Gn for 11 ms)
Height	5.00 in (127 mm)
Width	3.35 in (85 mm)
Depth	6.93 in (176 mm)
Net Weight	4.82 lb(US) (2.185 kg)

Ordering and shipping details

Category	22357-CTR, TESYS D, OPEN, 40-65A AC
Discount Schedule	I12
GTIN	3389110421392
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.74 in (9.5 cm)
Package 1 Width	5.20 in (13.2 cm)
Package 1 Length	5.51 in (14.0 cm)
Package 1 Weight	3.19 lb(US) (1.448 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	16.62 lb(US) (7.538 kg)

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
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

Contractual warranty

Warranty	18 months
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