

# LC1D50B7

IEC contactor, TeSys D, nonreversing, 50A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VAC 50/60Hz coil, open



## Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contacteur
Device short name	LC1D
Contacteur application	Resistive load
Utilisation category	AC-1 AC-2 AC-3e AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	50 A 140 °F (60 °C) <= 440 V AC AC-3e power circuit 80 A 140 °F (60 °C) <= 440 V AC AC-1 power circuit 65 A 140 °F (60 °C) <= 440 V AC AC-3 power circuit
[Uc] control circuit voltage	120 V AC 50/60 Hz

## Complementary

Motor power kW	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) 30 kW 380...400 V AC 50 Hz AC-3)
Maximum Horse Power Rating	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 5 Hp 115 V at AC 60 Hz for 1 phase 10 hp 230/240 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	10 A 140 °F (60 °C) control circuit 80 A 140 °F (60 °C) power circuit
Irms rated making capacity	1000 A 440 V power circuit IEC 60947 140 A AC control circuit IEC 60947-5-1
Rated breaking capacity	1000 A 440 V power circuit IEC 60947
Associated fuse rating	100 A gG <= 690 V type 2 power circuit 10 A gG control circuit IEC 60947-5-1 125 A gG <= 690 V type 1 power circuit

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Power dissipation per pole	3.7 W AC-3e 9.6 W AC-1 6.3 W AC-3
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-1 Control circuit 600 V CSA Control circuit 600 V UL
Overvoltage category	III
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
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	6000000 cycles
Control circuit type	AC 50/60 Hz
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	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 0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz 0.8...1.1 Uc -40...140 °F (-40...60 °C) operational AC 50 Hz
Inrush power in VA	140 VA 0.75 68 °F (20 °C)) 160 VA 0.75 68 °F (20 °C))
Hold-in power consumption in VA	13 VA 60 Hz 0.3 68 °F (20 °C)) 15 VA 50 Hz 0.3 68 °F (20 °C))
Heat dissipation	4...5 W 50/60 Hz control circuit
Operating time	4...19 ms opening 12...26 ms closing
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Connections - terminals	Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible without cable end Control circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible with cable end Power circuit screw terminals 1 0.00...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> ) rigid Power circuit screw terminals 2 0.00...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> ) rigid Power circuit screw terminals 1 0.00...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> ) flexible without cable end Power circuit screw terminals 2 0.00...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> ) flexible without cable end Power circuit screw terminals 1 0.00...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> ) flexible with cable end Power circuit screw terminals 2 0.00...0.02 in <sup>2</sup> (2.5...10 mm <sup>2</sup> ) flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) rigid Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) rigid
Tightening torque	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 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips 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
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 de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Mounting Support	Rail

## Environment

Standards	EN 60947-5-1 UL 508 IEC 60947-4-1 IEC 60947-5-1
Product Certifications	GOST GL DNV LROS (Lloyds register of shipping) CCC RINA BV UKCA UL
IP degree of protection	IP2X IEC 60529 IP2X VDE 0106
Climatic withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D 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	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	4.80 in (122 mm)
Width	2.17 in (55 mm)
Depth	4.72 in (120 mm)
Net Weight	3.09 lb(US) (1.4 kg)
Quantity per Set	Set of 10

## Ordering and shipping details

Category	22357-CTR, TESYS D, OPEN, 40-65A AC
Discount Schedule	I12
GTIN	3389110420913
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	3.17 lb(US) (1.436 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	16.54 lb(US) (7.502 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
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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