Product data sheet

Specifications

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

LC1D50T6

Product availability: Stock - Normally stocked in distribution facility

Price*: 388.80 USD

Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-2 AC-4 AC-3 AC-3e
poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	80 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 50 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 50 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	480 V AC 60 Hz

Complementary

Motor power kW	22 kW at 380...400 V AC 50/60 Hz 25 kW at 415 V AC 50/60 Hz 30 kW at 440 V AC 50/60 Hz 30 kW at 500 V AC 50/60 Hz 33 kW at 660...690 V AC 50/60 Hz 15 kW at 220...230 V AC 50/60 Hz
Maximum Horse Power Rating	3 hp at 115 V AC 60 Hz for 1 phase motors conforming to CSA 3 hp at 115 V AC 60 Hz for 1 phase motors conforming to UL 15 hp at 200/208 V AC 60 Hz for 3 phase motors conforming to CSA 15 hp at 200/208 V AC 60 Hz for 3 phase motors conforming to UL 15 hp at 230/240 V AC 60 Hz for 3 phase motors conforming to CSA 15 hp at 230/240 V AC 60 Hz for 3 phase motors conforming to UL 40 hp at 460/480 V AC 60 Hz for 3 phase motors conforming to CSA 40 hp at 460/480 V AC 60 Hz for 3 phase motors conforming to UL 40 hp at 575/600 V AC 60 Hz for 3 phase motors conforming to CSA 40 hp at 575/600 V AC 60 Hz for 3 phase motors conforming to UL 7.5 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to CSA 7.5 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to UL
Compatibility code	LC1D
Pole contact composition	3 NO

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Protective cover	With
[Ith] conventional free air thermal current	10 A (at 140.0000000000 °F (60 °C)) for control circuit 80 A (at 140.0000000000 °F (60 °C)) for power circuit
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 900 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	900 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 100 A gG at <= 690 V coordination type 1 for power circuit 100 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit
Power dissipation per pole	3.7 W AC-3 9.6 W AC-1 3.7 W AC-3e
[Ui] rated insulation voltage	Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-1
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 60 Hz
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.85...1.1 Uc 140.0000000000 °F (60 °C) operational AC 60 Hz 0.3...0.6 Uc 140.0000000000 °F (60 °C) drop-out AC 60 Hz
Inrush power in VA	140 VA cos phi 0.75 (at 68.0000000000 °F (20 °C)) 160 VA cos phi 0.75 (at 68.0000000000 °F (20 °C))
Hold-in power consumption in VA	13 VA 50 Hz cos phi 0.3 (at 68.0000000000 °F (20 °C)) 15 VA 60 Hz cos phi 0.3 (at 68.0000000000 °F (20 °C))
Heat dissipation	4…5 W at 50/60 Hz for control circuit
Operating time	12...26 ms closing 4...19 ms opening
Maximum operating rate	3600 cyc/h 140.0000000000 °F (60 °C)
Connections - terminals	Control circuit: screw clamp terminal 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminal 2 0.002…0.006 in² (1…4 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminal 1 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 2 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminal 2 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible with cable end Power circuit: connector 1 0.004…0.05 in² (2.5…35 mm²) - cable stiffness: solid with cable end Power circuit: connector 2 0.004…0.05 in² (2.5…35 mm²) - cable stiffness: solid with cable end Power circuit: connector 1 0.004…0.05 in² (2.5…35 mm²) - cable stiffness: flexible without cable end Power circuit: connector 2 0.004…0.04 in² (2.5…25 mm²) - cable stiffness: flexible without cable end Power circuit: connector 1 0.004…0.05 in² (2.5…35 mm²) - cable stiffness: flexible with cable end Power circuit: connector 2 0.004…0.05 in² (2.5…35 mm²) - cable stiffness: flexible with cable end

Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal flat Ø 6 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal Philips No 2 Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 6 mm Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 8 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal pozidriv No 2
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 for control circuit
Minimum switching current	5 mA for control circuit
Insulation resistance	> 10 MOhm for 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 Plate

Environment

Standards	EN 60947-4-1 CSA C22.2 No 14 IEC 60947-5-1 EN 60947-5-1 UL 508 IEC 60947-4-1
Product Certifications	RINA CCC CSA GL GOST BV DNV UL LROS (pending) UKCA
IP degree of protection	IP2X IEC 60529 IP2X VDE 0106
Climatic withstand	IACS E10 exposure to damp heat
Permissible ambient air temperature around the device	23.0000000000…140.0000000000 °F (-5…60 °C) -40.0000000000…158.0000000000 °F (-40…70 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating
Fire resistance	1562.0000000000 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor opened 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms) Vibrations contactor opened 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz)
Height	4.8 in (122 mm)
Width	2.2 in (55 mm)
Depth	4.7 in (119 mm)
Net Weight	3.09 lb(US) (1.4 kg)

Ordering and shipping details

Category	US10I1222357
Discount Schedule	0I12
GTIN	3389110426700

Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.118 in (13.000 cm)
Package 1 Width	3.543 in (9.000 cm)
Package 1 Length	5.118 in (13.000 cm)
Package 1 Weight	3.086 lb(US) (1.400 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	18
Package 2 Height	11.8 in (30 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	56.482 lb(US) (25.620 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	144
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	31.496 in (80.000 cm)
Package 3 Length	23.622 in (60.000 cm)
Package 3 Weight	469.497 lb(US) (212.960 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc	
Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	No need of specific recycling operations
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