Product data sheet

Specifications





IEC contactor, TeSys D, nonreversing, 50A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 120VAC 60Hz coil, open

LC1D50G6

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-3 AC-1 AC-4 AC-2 AC-3e
poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz
[le] 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 <140.00000000000 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	120 V AC 60 Hz

Complementary

Motor power kW	22 kW at 380400 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 660690 V AC 50/60 Hz
	15 kW at 220230 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.

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	0.851.1 Uc 140.0000000000 °F (60 °C) operational AC 60 Hz 0.30.6 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	45 W at 50/60 Hz for control circuit
Operating time	1226 ms closing 419 ms opening
Maximum operating rate	3600 cyc/h 140.0000000000 °F (60 °C)
Connections - terminals	Control circuit: screw clamp terminal 1 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminal 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminal 1 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminal 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end Power circuit: connector 1 0.0040.05 in² (2.535 mm²) - cable stiffness: solid with cable end Power circuit: connector 2 0.0040.05 in² (2.535 mm²) - cable stiffness: flexible without cable end Power circuit: connector 2 0.0040.05 in² (2.535 mm²) - cable stiffness: flexible without cable end Power circuit: connector 1 0.0040.04 in² (2.525 mm²) - cable stiffness: flexible without cable end Power circuit: connector 2 0.0040.05 in² (2.535 mm²) - cable stiffness: flexible with cable end Power circuit: connector 1 0.0040.05 in² (2.535 mm²) - cable stiffness: flexible with cable end Power circuit: connector 2 0.0040.05 in² (2.535 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 UL 508
	IEC 60947-4-1
	CSA C22.2 No 14
	EN 60947-5-1
	IEC 60947-5-1
Product Certifications	ccc
	RINA
	DNV
	BV
	LROS (pending)
	GOST
	CSA
	UL
	GL
	UKCA
IP degree of protection	IP2X IEC 60529
	IP2X VDE 0106
Climatic withstand	IACS E10 exposure to damp heat
Permissible ambient air	23.0000000000140.0000000000 °F (-560 °C)
temperature around the device	-40.000000000158.0000000000 °F (-4070 °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, 5300 Hz)
	Vibrations contactor closed 4 Gn, 5300 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	0112
GTIN	3389110421439

Returnability	No
Country of origin	FR

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.8 in (9.6 cm)
Package 1 Width	5.2 in (13.2 cm)
Package 1 Length	5.5 in (14.0 cm)
Package 1 Weight	3.192 lb(US) (1.448 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	16.78 lb(US) (7.61 kg)

Contractual warranty

Warranty 18 months



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc
Ø	Toxic Heavy Metal Free
Ø	Mercury Free
Ø	Rohs Exemption Information Yes
②	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