Product data sheet
Characteristics

LC1D50U7
CONTACTOR 600VAC 50AMP IEC +OPTIONS

Product availability : Stock - Normally stocked in distribution facility

Price* : 324.00 USD

Main

Range of product	TeSys D
Range	TeSys
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-2 AC-1 AC-3 AC-4
Control circuit type	AC 50/60 Hz
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	50 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit 80 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit
Motor power kW	22 kW at 380...400 V AC 50/60 Hz AC-3 25 kW at 415 V AC 50/60 Hz AC-3 30 kW at 440 V AC 50/60 Hz AC-3 30 kW at 500 V AC 50/60 Hz AC-3 33 kW at 660...690 V AC 50/60 Hz AC-3 15 kW at 220...230 V AC 50/60 Hz AC-3 11 kW at 400 V AC 50/60 Hz AC-4 30 kW at 1000 V AC 50/60 Hz AC-3
Motor power hp	15 hp at 200/208 V AC 60 Hz 3P motors conforming to CSA 15 hp at 200/208 V AC 60 Hz 3P motors conforming to UL 15 hp at 230/240 V AC 60 Hz 3P motors conforming to CSA 15 hp at 230/240 V AC 60 Hz 3P motors conforming to UL 3 hp at 115 V AC 60 Hz 1P motors conforming to CSA 3 hp at 115 V AC 60 Hz 1P motors conforming to UL 40 hp at 460/480 V AC 60 Hz 3P motors conforming to CSA 40 hp at 460/480 V AC 60 Hz 3P motors conforming to UL 40 hp at 575/600 V AC 60 Hz 3P motors conforming to CSA 40 hp at 575/600 V AC 60 Hz 3P motors conforming to UL 7.5 hp at 230/240 V AC 60 Hz 1P motors conforming to CSA

	7.5 hp at 230/240 V AC 60 Hz 1P motors conforming to UL
[Uc] control circuit voltage	240 V AC 50/60 Hz
Connections - terminals	Control circuit: screw clamp terminal 1 cable 0...0.01 in² (1...4 mm²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminal 2 cable 0...0.01 in² (1...4 mm²) - cable stiffness: solid - without cable end Power circuit: screw clamp terminal 1 cable 0...0.05 in² (1...35 mm²) - cable stiffness: solid - without cable end Power circuit: screw clamp terminal 2 cable 0...0.04 in² (1...25 mm²) - cable stiffness: solid - without cable end Power circuit: screw clamp terminal 1 cable 0...0.05 in² (1...35 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminal 1 cable 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminal 2 cable 0...0 in² (1...2.5 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminal 2 cable 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminal 2 cable 0...0.04 in² (1...25 mm²) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminal 2 cable 0...0.05 in² (1...35 mm²) - cable stiffness: flexible - without cable end Power circuit : screw terminals

Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
Protective cover	With
Auxiliary contacts type	Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Type mirror contact (1 NC) conforming to IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
Control circuit voltage limits	0.3...0.6 Uc at 140 °F (60 °C) drop-out 50/60 Hz 0.8...1.1 Uc at 140 °F (60 °C) operational 50 Hz 0.85...1.1 Uc at 140 °F (60 °C) operational 60 Hz
[Ui] rated insulation voltage	600 V control circuit certifications CSA 600 V control circuit certifications UL 600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V control circuit conforming to IEC 60947-1 690 V power circuit conforming to IEC 60947-1
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Overvoltage category	III
Mounting support	Plate Rail
Flame retardance	V1 conforming to UL 94
Tightening torque	Power circuit: 44.25 lbf.in (5 N.m) - on screw clamp terminal - with screwdriver flat Ø 6 mm Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminal - with screwdriver Philips No 2 Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminal - with screwdriver flat Ø 6 mm Power circuit: 44.25 lbf.in (5 N.m) - on screw clamp terminal - with screwdriver flat Ø 8 mm
System Voltage	<= 690 V AC 25...400 Hz power circuit
[Ith] conventional free air thermal current	10 A at <= 140 °F (60 °C) control circuit 80 A at <= 140 °F (60 °C) power circuit
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 900 A at 440 V power circuit conforming to IEC 60947
Rated breaking capacity	900 A at 440 V power circuit conforming to IEC 60947
Associated fuse rating	10 A gG control circuit conforming to IEC 60947-5-1 100 A gG at <= 690 V coordination type 1 power circuit 100 A gG at <= 690 V coordination type 2 power circuit
Power dissipation per pole	3.7 W AC-3 9.6 W AC-1
Inrush power in VA	140 VA at 68 °F (20 °C) (cos φ 0.75) 160 VA at 68 °F (20 °C) (cos φ 0.75)
Hold-in power consumption in VA	13 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz 15 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz
Operating time	12...26 ms closing 4...19 ms opening

Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	6000000 cycles
Operating rate	3600 cyc/h at <= 140 °F (60 °C)
Minimum switching current	5 mA control circuit
Minimum switching voltage	17 V 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
Insulation resistance	> 10 MOhm control circuit
Height	5 in (127 mm)
Width	2.95 in (75 mm)
Depth	4.69 in (119 mm)
Product weight	3.09 lb(US) (1.4 kg)

Environment

Standards	EN 60947-5-1 UL 508 IEC 60947-5-1 IEC 60947-4-1 EN 60947-4-1 CSA C22.2 No 14
Product certifications	LROS (Lloyds register of shipping) UL BV GOST GL CCC CSA RINA DNV
IP degree of protection	IP2x conforming to IEC 60529 IP2x conforming to VDE 0106
Ambient air temperature for operation	23...140 °F (-5...60 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating in temperature
Fire resistance	1562 °F (850 °C) conforming to IEC 60695-2-1
Shock resistance	10 gn contactor opened 15 gn contactor closed
Vibration resistance	2 gn 5...300 Hz contactor opened 4 gn 5...300 Hz contactor closed
Heat dissipation	4...5 W at 50/60 Hz for control circuit

Ordering and shipping details

Category	22345 - CTR,D-LINE,OPEN,NONREV-NEW
Discount Schedule	I12
GTIN	00785901207641
Nbr. of units in pkg.	1
Package weight(Lbs)	3.2000000000000002
Returnability	Y
Country of origin	CZ

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0001 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity

REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - - - Substance 1	Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer.
- - - - - - - More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months

LC1D50U7 is replaced by:

Contactors LC1D50AU7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 50 A - 240 V AC 50/60 Hz coil

Qty 1

Reason for Substitution: End of life | Substitution date: 01 January 2017