Product data sheet
Characteristics

LC2D40G7
REVERSING CONTACTOR 575VAC 40A IEC

Product availability : Stock - Normally stocked in distribution facility

Price* : 706.00 USD

Main

Range of product	TeSys D
Product or component type	Reversing contactor
Device short name	LC2D
Contactor application	Motor control
Utilisation category	AC-2 AC-4 AC-3
Control circuit type	AC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	40 A (<= 140 °F (60 °C)) AC network AC-3 for power circuit
Motor power kW	11 kW at 220...240 V AC 50/60 Hz 22 kW at 415 V AC 50/60 Hz 22 kW at 440 V AC 50/60 Hz 22 kW at 500 V AC 50/60 Hz 30 kW at 660...690 V AC 50/60 Hz 18.5 kW at 380...400 V AC 50/60 Hz
[Uc] control circuit voltage	120 V AC 50/60 Hz
Connections - terminals	Control circuit: screwclamp terminal 1 cable 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - with cable end Control circuit: screwclamp terminal 1 cable 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - without cable end Control circuit: screwclamp terminal 1 cable 0...0.01 in² (1...4 mm²) - cable stiffness: solid - without cable end Control circuit: screwclamp terminal 2 cable 0...0 in² (1...2.5 mm²) - cable stiffness: flexible - with cable end Control circuit: screwclamp terminal 2 cable 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - without cable end Control circuit: screwclamp terminal 2 cable 0...0.01 in² (1...4 mm²) - cable stiffness: solid - without cable end Power circuit: screwclamp terminal 1 cable 0...0.05 in² (1...35 mm²) - cable stiffness: flexible - with cable end

	Power circuit: screwclamp terminal 1 cable 0...0.05 in² (1...35 mm²) - cable stiffness: flexible - without cable end Power circuit: screwclamp terminal 1 cable 0...0.05 in² (1...35 mm²) - cable stiffness: solid - without cable end Power circuit: screwclamp terminal 2 cable 0...0.04 in² (1...25 mm²) - cable stiffness: flexible - with cable end Power circuit: screwclamp terminal 2 cable 0...0.04 in² (1...25 mm²) - cable stiffness: flexible - without cable end Power circuit: screwclamp terminal 2 cable 0...0.04 in² (1...25 mm²) - cable stiffness: solid - without cable end Power circuit: screwclamp terminal 2 cable 0...0.05 in² (1...35 mm²) - cable stiffness: flexible - with cable end Power circuit: screwclamp terminal 2 cable 0...0.05 in² (1...35 mm²) - cable stiffness: flexible - without cable end Power circuit: screwclamp terminal 2 cable 0...0.05 in² (1...35 mm²) - cable stiffness: solid - without cable end

Complementary

Assembly style	Ready assembled
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
Interlocking type	Mechanical
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	6 kV conforming to IEC 60947
Overvoltage category	III
Mounting support	Rail Plate
Flame retardance	V1 conforming to UL 94
Tightening torque	Control circuit: 15.04 lbf.in (1.7 N.m) - on screwclamp terminal - cable 0...0 in² (1...2.5 mm²) - with screwdriver flat Ø 6 mm Control circuit: 15.04 lbf.in (1.7 N.m) - on screwclamp terminal - cable 0...0 in² (1...2.5 mm²) - with screwdriver Philips No 2 Power circuit: 44.25 lbf.in (5 N.m) - on screwclamp terminal - cable 0...0.04 in² (1...25 mm²) hexagonal Control circuit: 15.04 lbf.in (1.7 N.m) - on screwclamp terminal - cable 0...0.01 in² (1...4 mm²) - with screwdriver Philips No 2 Control circuit: 15.04 lbf.in (1.7 N.m) - on screwclamp terminal - cable 0...0.01 in² (1...4 mm²) - with screwdriver flat Ø 6 mm Power circuit: 70.8 lbf.in (8 N.m) - on screwclamp terminal - cable 0...0.05 in² (1...35 mm²) hexagonal
System Voltage	<= 1000 V AC 25...400 Hz power circuit
[Ith] conventional free air thermal current	10 A at <= 140 °F (60 °C) control circuit 60 A at <= 140 °F (60 °C) power circuit
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 800 A at 440 V power circuit conforming to IEC 60947
Rated breaking capacity	800 A at 440 V power circuit conforming to IEC 60947
Associated fuse rating	10 A gG control circuit conforming to IEC 60947-5-1 80 A gG at <= 690 V coordination type 1 power circuit 80 A gG at <= 690 V coordination type 2 power circuit
Average impedance	At 50 Hz - Ith 60 A for power circuit
Power dissipation per pole	2.4 W AC-3 - Ith 60 A
Inrush power in VA	200 VA at 68 °F (20 °C) (cos φ: 0.75) 220 VA at 68 °F (20 °C) (cos φ: 0.75)
Hold-in power consumption in VA	20 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz 22 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz

	26 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz 26 VA at 68 °F (20 °C) (cos φ 0.3) 60 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	5.2 in (132 mm)
Width	6.5 in (165 mm)
Depth	5.59 in (142 mm)
Product weight	5.29 lb(US) (2.4 kg)

Environment

Standards	IEC 60947-5-1 IEC 60947-4-1 EN 60947-4-1 CSA C22.2 No 14 UL 508 EN 60947-5-1
Product certifications	BV CCC DNV LROS (Lloyds register of shipping) UL GOST CSA GL RINA
IP degree of protection	IP2x conforming to IEC 60529 IP2x conforming to VDE 0106
Protective treatment	TH (pollution degree: 3) conforming to IEC 60068
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 closed 8 gn contactor opened
Vibration resistance	2 gn 5...300 Hz contactor opened 4 gn 5...300 Hz contactor closed
Heat dissipation	6...10 W at 50/60 Hz for control circuit

Ordering and shipping details

Category	22346 - CTR,D-LINE,OPEN,REVERSING-NEW
Discount Schedule	I12
GTIN	00785901455257
Nbr. of units in pkg.	1
Package weight(Lbs)	7.1200000000000001
Returnability	Y
Country of origin	CZ

Contractual warranty

Warranty period	18 months