Product data sheet
Characteristics

LC2D65F7
reversing contactor TeSys LC2-D - 3 poles - AC-3 440V 65 A - coil 110 V AC

Product availability : Stock - Normally stocked in distribution facility

Price* : 1088.00 USD



Main

Range	TeSys
Product name	TeSys D
Product or component type	Reversing contactor
Device short name	LC2D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Device presentation	Preassembled with reversing power busbar
Poles description	3P
Pole contact composition	3 NO
System Voltage	<= 1000 V AC 25...400 Hz power circuit
[Ie] rated operational current	80 A (<= 104 °F (40 °C)) at <= 440 V AC AC-1 power circuit 65 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit
Motor power kW	30 kW at 380...400 V AC 50/60 Hz 37 kW at 415 V AC 50/60 Hz 37 kW at 440 V AC 50/60 Hz 37 kW at 500 V AC 50/60 Hz 37 kW at 660...690 V AC 50/60 Hz 18.5 kW at 220...230 V AC 50/60 Hz
Motor power hp	50 hp at 575...600 V AC 50/60 Hz 3 phases motors 20 hp at 220...240 V AC 50/60 Hz 3 phases motors 50 hp at 460...480 V AC 50/60 Hz 3 phases motors 10 hp at 230...240 V AC 50/60 Hz 1 phase motors 5 hp at 115 V AC 50/60 Hz 1 phase motors 20 hp at 200/208 V AC 50/60 Hz 3 phases motors
Control circuit type	AC 50/60 Hz
Control circuit voltage	110 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947

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

Overvoltage category	III
[Ith] conventional free air thermal current	10 A at <= 140 °F (60 °C) signalling circuit
Irms rated making capacity	1000 A at 440 V power circuit conforming to IEC 60947-4 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	1000 A at 500 V conforming to IEC 60947 1000 A at 220/415/440 V power circuit conforming to IEC 60947 630 A at 690 V conforming to IEC 60947
[Icw] rated short-time withstand current	100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 520 A <= 104 °F (40 °C) 10 s power circuit 900 A <= 104 °F (40 °C) 1 s power circuit 110 A <= 104 °F (40 °C) 10 min power circuit 260 A <= 104 °F (40 °C) 1 min power circuit
Associated fuse rating	10 A gG signalling circuit conforming to IEC 60947-5-1
Average impedance	1 mOhm at 50 Hz - Ith 80 A power circuit
[Ui] rated insulation voltage	1000 V power circuit conforming to IEC 60947-4-1 600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL
Electrical durability	1.4 Mcycles 80 A AC-1 at Ue <= 440 V 1.5 Mcycles 65 A AC-3 at Ue <= 440 V
Power dissipation per pole	4.2 W AC-3 6.4 W AC-1
Protective cover	With
Interlocking type	Mechanical
Mounting support	Plate Rail
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	BV CCC CSA DNV GL RINA UL EAC
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 0...0 in² (1...2.5 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in² (1...4 mm²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in² (1...4 mm²) - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 0...0.04 in² (2.5...25 mm²) - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) 0...0.02 in² (2.5...16 mm²) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 0...0.02 in² (2.5...10 mm²) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 0...0.04 in² (2.5...25 mm²) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 0...0.02 in² (2.5...16 mm²) - cable stiffness: solid - without cable end

	Power circuit: screw clamp terminals 1 cable(s) 0...0.04 in² (2.5...25 mm²) - cable stiffness: flexible - with cable end
Tightening torque	Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 44.25 lbf.in (5 N.m) - on screw clamp terminals Power circuit: 44.25 lbf.in (5 N.m) - on screw clamp terminals - with screwdriver flat Ø 8 mm
Operating time	20...26 ms closing 8...12 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	16000000 cycles
Operating rate	3600 cyc/h at <= 131 °F (55 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.85...1.1 Uc operational at 131 °F (55 °C), AC 60 Hz 0.3...0.6 Uc drop-out at 131 °F (55 °C), AC 60 Hz 0.3...0.6 Uc drop-out at 131 °F (55 °C), AC 50/60 Hz 0.8...1.1 Uc operational at 131 °F (55 °C), AC 50/60 Hz
Inrush power in VA	200 VA at 68 °F (20 °C) (cos ϕ 0.75) 50 Hz 220 VA at 68 °F (20 °C) (cos ϕ 0.75) 60 Hz
Heat dissipation	6...10 W at 50/60 Hz
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
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Non-overlap time	1.5 ms on de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)
Insulation resistance	> 10 MOhm signalling circuit

Environment

IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	23...131 °F (-5...55 °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	1760 °F (960 °C) conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor open 8 Gn for 11 ms Vibrations contactor closed 3 Gn, 5...300 Hz Shocks contactor closed 10 Gn for 11 ms
Height	5 in (127 mm)
Width	6.5 in (165 mm)
Depth	5.59 in (142 mm)
Product weight	5.29 lb(US) (2.4 kg)

Ordering and shipping details

Category	22346 - CTR,D-LINE,OPEN,REVERSING-NEW
Discount Schedule	I12
GTIN	00785901462279
Nbr. of units in pkg.	1
Package weight(Lbs)	7.1799999999999997

Returnability	N
Country of origin	CZ

Contractual warranty

Warranty period	18 months