



Product availability : Stock - Normally stocked in distribution facility



Main

Range of product	TeSys D
Range	TeSys
Product name	TeSys D
Product or component type	Reversing contactor
Device short name	LC2D
Contact 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	<= 300 V DC power circuit <= 1000 V AC 25...400 Hz power circuit
[Ie] rated operational current	200 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit 115 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit
Motor power kW	30 kW at 220...230 V AC 50/60 Hz 55 kW at 380...400 V AC 50/60 Hz 65 kW at 1000 V AC 50/60 Hz 75 kW at 500 V AC 50/60 Hz 80 kW at 660...690 V AC 50/60 Hz 59 kW at 415...440 V AC 50/60 Hz
Motor power hp	30 hp at 200/208 V AC 50/60 Hz 3 phases motors 40 hp at 230/240 V AC 50/60 Hz 3 phases motors 75 hp at 460/480 V AC 50/60 Hz 3 phases motors 100 hp at 575/600 V AC 50/60 Hz 3 phases motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	120 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overtension category	III

[Ith] conventional free air thermal current	200 A at ≤ 140 °F (60 °C) power circuit
Irms rated making capacity	1260 A at 440 V power circuit conforming to IEC 60947 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	1100 A at 440 V power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	1100 A ≤ 104 °F (40 °C) 1 s power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 250 A ≤ 104 °F (40 °C) 10 min power circuit 550 A ≤ 104 °F (40 °C) 1 min power circuit 950 A ≤ 104 °F (40 °C) 10 s power circuit
Associated fuse rating	200 A gG at ≤ 690 V coordination type 2 power circuit 250 A gG at ≤ 690 V coordination type 1 power circuit 10 A gG signalling circuit conforming to IEC 60947-5-1
Average impedance	0.6 mOhm at 50 Hz - Ith 200 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	0.8 Mcycles 200 A AC-1 at Ue ≤ 440 V 0.95 Mcycles 115 A AC-3 at Ue ≤ 440 V
Power dissipation per pole	24 W AC-1 7.9 W AC-3
Protective cover	With
Interlocking type	Electrical Mechanical
Mounting support	Rail Plate
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	UL CSA CCC EAC GL BV DNV RINA
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: solid - without cable end Power circuit: connector 1 cable(s) 0.02...0.19 in ² (10...120 mm ²) - cable stiffness: flexible - without cable end Power circuit: connector 2 cable(s) 0.02...0.08 in ² (10...50 mm ²) - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 0.02...0.19 in ² (10...120 mm ²) - cable stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 0.02...0.08 in ² (10...50 mm ²) - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 0.02...0.19 in ² (10...120 mm ²) - cable stiffness: solid - without cable end

Power circuit: connector 2 cable(s) 0.02...0.08 in² (10...50 mm²) - cable stiffness: solid - without cable end

Tightening torque	Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 106.19 lbf.in (12 N.m) - on connector hexagonal 0.16 in (4 mm)
Operating time	6...20 ms opening 20...50 ms closing
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	8000000 cycles
Operating rate	2400 cyc/h at ≤ 140 °F (60 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.3...0.5 U _c drop-out at 131 °F (55 °C), AC 50/60 Hz 0.8...1.15 U _c operational at 131 °F (55 °C), AC 50/60 Hz
Inrush power in VA	280...350 VA at 68 °F (20 °C) (cos φ 0.8) 60 Hz 280...350 VA at 68 °F (20 °C) (cos φ 0.8) 50 Hz
Hold-in power consumption in VA	2...18 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz 2...18 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz
Heat dissipation	3...8 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...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 U _c
Operating altitude	9842.52 ft (3000 m) without derating in temperature
Fire resistance	1562 °F (850 °C) conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms
Height	6.22 in (158 mm)
Width	10.47 in (266 mm)
Depth	5.83 in (148 mm)
Product weight	14 lb(US) (6.35 kg)

Ordering and shipping details

Category	22346 - CTR,D-LINE,OPEN,REVERSING-NEW
Discount Schedule	I12
GTIN	00785901531517
Nbr. of units in pkg.	1
Package weight(Lbs)	14.32

Returnability	Y
Country of origin	CZ

Contractual warranty

Warranty period	18 months
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