

reversing contactor TeSys LC2-D - 3 poles - AC-3 - 440 V 65 A - coil 48 V AC

LC2D65E5

EAN Code: 3389110462227

! Discontinued

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-3 AC-1
Device Presentation	Preassembled with reversing power busbar
Poles Description	3P
Power Pole Contact Composition	3 NO
[Ue] Rated Operational Voltage	Power circuit: <= 1000 V AC 25400 Hz
[le] Rated Operational Current	65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <40 °C) at <= 440 V AC AC-1 for power circuit
Motor Power Kw	18.5 kW at 220230 V AC 50 Hz 30 kW at 380400 V AC 50 Hz 37 kW at 500 V AC 50 Hz 37 kW at 660690 V AC 50 Hz 37 kW at 440 V AC 50 Hz 37 kW at 415 V AC 50 Hz
Motor Power Hp (UI / Csa)	5 hp at 115 V AC 60 Hz for 1 phase motors 20 hp at 200/208 V AC 60 Hz for 3 phases motors 50 hp at 575600 V AC 60 Hz for 3 phases motors 50 hp at 460480 V AC 60 Hz for 3 phases motors 20 hp at 220240 V AC 60 Hz for 3 phases motors 10 hp at 230240 V AC 60 Hz for 1 phase motors
Control Circuit Type	AC at 50 Hz
[Uc] Control Circuit Voltage	48 V AC 50 Hz
Auxiliary Contact Composition	1 NO + 1 NC
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit
Irms Rated Making Capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 1000 A at 440 V for power circuit conforming to IEC 60947-4
Rated Breaking Capacity	1000 A at 220/415/440 V for power circuit conforming to IEC 60947 1000 A at 500 V conforming to IEC 60947 630 A at 690 V conforming to IEC 60947

[Icw] Rated Short-Time Withstand Current	100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 520 A 40 °C - 10 s for power circuit 900 A 40 °C - 1 s for power circuit 110 A 40 °C - 10 min for power circuit 260 A 40 °C - 1 min for power circuit
Associated Fuse Rating	10 A gG for signalling circuit conforming to IEC 60947-5-1
Average Impedance	1 mOhm - Ith 80 A 50 Hz for power circuit
[Ui] Rated Insulation Voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1
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	6.4 W AC-1 4.2 W AC-3
Front Cover	With
Interlocking Type	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	BV CCC CSA DNV GL RINA UL EAC
Connections - Terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: screw clamp terminals 1 cable(s) 2.525 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 2.516 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 2.525 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 2.525 mm²solid without cable end Power circuit: screw clamp terminals 1 cable(s) 2.525 mm²solid without cable end Power circuit: screw clamp terminals 2 cable(s) 2.525 mm²solid without cable end Power circuit: screw clamp terminals 2 cable(s) 2.525 mm²solid without cable end
Tightening Torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw clamp terminals - with screwdriver flat Ø 8 mm Power circuit: 5 N.m - on screw clamp terminals
Operating Time	2026 ms closing 812 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
Maximum Operating Rate	3600 cyc/h 55 °C

Complementary

Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 50 Hz 0.851.1 Uc (-4055 °C):operational AC 50 Hz 11.1 Uc (5570 °C):operational AC 50 Hz
Inrush Power In Va	200 VA 50 Hz cos phi 0.75 (at 20 °C) 220 VA 60 Hz cos phi 0.75 (at 20 °C)
Heat Dissipation	610 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	25400 Hz
Minimum Switching Current	5 mA for signalling circuit
Minimum Switching Voltage	17 V for 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 for 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	-4060 °C 6070 °C with derating
Ambient Air Temperature For Storage	-6080 °C
Operating Altitude	03000 m
Fire Resistance	960 °C conforming to IEC 60695-2-1
Flame Retardance	V1 conforming to UL 94
Mechanical Robustness	Vibrations contactor open: 2 Gn, 5300 Hz Shocks contactor closed: 10 Gn for 11 ms Shocks contactor open: 8 Gn for 11 ms Vibrations contactor closed: 3 Gn, 5300 Hz
Height	127 mm
Width	165 mm
Depth	142 mm
Net Weight	2.4 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	18.5 cm
Package 1 Width	18.8 cm
Package 1 Length	25 cm
Package 1 Weight	3.295 kg

Contractual warranty

Warranty	18 months