



TeSys D reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 38 A - 72 V DC coil

LC2D386SD

! End-of-service on: 04-Nov-2020

① Discontinued

Main

| Walli | | |
|--|---|--|
| 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 | |
| Power Pole Contact Composition | 3 NO | |
| [Ue] Rated Operational Voltage | Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC | |
| [le] Rated Operational Current | 50 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 38 A (at <60 °C) at <= 440 V AC AC-3 for power circuit | |
| Motor Power Kw | 9 kW at 220230 V AC 50 Hz 18.5 kW at 380400 V AC 50 Hz 18.5 kW at 415440 V AC 50 Hz 18.5 kW at 500 V AC 50 Hz 18.5 kW at 660690 V AC 50 Hz | |
| Motor Power Hp (UI / Csa) | 10 hp at 230/240 V AC 60 Hz for 3 phases motors 5 hp at 240 V AC 60 Hz for 1 phase motors 10 hp at 200/208 V AC 60 Hz for 3 phases motors 20 hp at 480 V AC 60 Hz for 3 phases motors 25 hp at 600 V AC 60 Hz for 3 phases motors | |
| Control Circuit Type | DC standard | |
| [Uc] Control Circuit Voltage | 72 V DC | |
| Auxiliary Contact Composition | ontact Composition 1 NO + 1 NC | |
| [Uimp] Rated Impulse Withstand Voltage | 6 kV conforming to IEC 60947 | |
| Overvoltage Category | III | |
| [lth] Conventional Free Air Thermal Current | 2 Air 10 A (at 60 °C) for signalling circuit 50 A (at 60 °C) for power circuit | |
| Irms Rated Making Capacity | ated Making Capacity 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947 | |
| Rated Breaking Capacity | 550 A at 440 V for power circuit conforming to IEC 60947 | |

| [Icw] Rated Short-Time Withstand Current | 60 A 40 °C - 10 min for power circuit 430 A 40 °C - 1 s for power circuit 150 A 40 °C - 1 min for power circuit 310 A 40 °C - 10 s for power circuit 310 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit | |
|---|---|--|
| Associated Fuse Rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 63 A gG at <= 690 V coordination type 2 for power circuit | |
| Average Impedance | 2 mOhm - Ith 50 A 50 Hz for power circuit | |
| [Ui] Rated Insulation Voltage | Power circuit: 690 V conforming to IEC 60947-4-1 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 | |
| Electrical Durability | 1.4 Mcycles 50 A AC-1 at Ue <= 440 V 1.4 Mcycles 38 A AC-3 at Ue <= 440 V | |
| Power Dissipation Per Pole | 5 W AC-1 3 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 | LROS (Lloyds register of shipping) GL CCC CSA GOST DNV UL RINA BV | |
| Connections - Terminals | Control circuit: lugs-ring terminals (external diameter: 8 mm) Power circuit: lugs-ring terminals (external diameter: 10 mm) | |
| Tightening Torque | Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M4 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M4 | |
| Operating Time | 53.5572.45 ms closing 1624 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 | 30 Mcycles | |
| Maximum Operating Rate | 3600 cyc/h 60 °C | |
| Complementary | | |
| Coil Technology | Built-in bidirectional peak limiting diode suppressor | |
| Control Circuit Voltage Limits | 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC | |
| Time Constant | 28 ms | |

| Inrush Power In W | 5.4 W (at 20 °C) | |
|--------------------------------|---|--|
| Hold-In Power Consumption In W | 5.4 W at 20 °C | |
| 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 | -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 | 850 °C conforming to IEC 60695-2-1 | |
| Flame Retardance | V1 conforming to UL 94 | |
| Mechanical Robustness | Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor closed: 15 Gn for 11 ms Shocks contactor open: 8 Gn for 11 ms | |
| Height | 85 mm | |
| Width | 90 mm | |
| Depth | 101 mm | |
| Net Weight | 1.137 kg | |

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

| ⊘ | Reach Free Of Svhc | |
|----------|------------------------------|-----|
| ⊘ | Toxic Heavy Metal Free | |
| ⊘ | Mercury Free | |
| ⊘ | Rohs Exemption Information Y | res |
| Ø | Pvc Free | |

Certifications & Standards

| Eu Rohs Directive | Compliant |
|--------------------------|---|
| | EU RoHS Declaration |
| China Rohs Regulation | China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope) |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |