

TeSys Deca contactor , 3P(3 NO) , AC-3 , <= 440V, 38 A , 100V DC standard coil

LC1D385KD

! Discontinued

Main

| Range | TeSys |
|--------------------------------|---|
| Range Of Product | TeSys D |
| Product Or Component Type | Contactor |
| Device Short Name | LC1D |
| Contactor Application | Resistive load Motor control |
| Utilisation Category | AC-1 AC-3 |
| Poles Description | 3P |
| [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 |
| [Uc] Control Circuit Voltage | 100 V DC |

Complementary

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| Motor Power Kw | 18.5 kW at 500 V AC 50/60 Hz 18.5 kW at 660690 V AC 50/60 Hz 18.5 kW at 380400 V AC 50/60 Hz 9 kW at 220230 V AC 50/60 Hz 18.5 kW at 415440 V AC 50/60 Hz |
| Motor Power Hp | 10 hp at 230/240 V AC 50/60 Hz for 3 phases motors 10 hp at 200/208 V AC 50/60 Hz for 3 phases motors 5 hp at 240 V AC 50/60 Hz for 1 phase motors 20 hp at 480 V AC 50/60 Hz for 3 phases motors 25 hp at 600 V AC 50/60 Hz for 3 phases motors |
| Compatibility Code | LC1D |
| Pole Contact Composition | 3 NO |
| Contact Compatibility | M4 |
| Protective Cover | Without |
| [Ith] Conventional Free Air Thermal Current | 10 A (at 60 °C) for signalling circuit 50 A (at 60 °C) for power 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 60947-5-1 550 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 | 60 A 40 °C - 10 min for power circuit |
|--|---|
| Current | 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 |
| | 100 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 |
| Power Dissipation Per Pole | 5 W AC-1 |
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| | 3 W AC-3 |
| [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: 690 V conforming to IEC 60947-4-1 |
| Overvoltage Category | III |
| Pollution Degree | 3 |
| [Uimp] Rated Impulse Withstand Voltage | 6 kV conforming to IEC 60947 |
| 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 |
| | 13043-1 |
| Mechanical Durability | 30 Mcycles |
| Electrical Durability | 1.4 Mcycles 50 A AC-1 at Ue <= 440 V |
| · · · · · · · · · · · · · · · · · · · | 1.4 Mcycles 38 A AC-3 at Ue <= 440 V |
| | 1.4 Moyeles 55 7776 5 at 55 4-445 V |
| Control Circuit Type | DC standard |
| 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 |
| | 11.25 OC (6070 C):Operational DC |
| Inrush Power In W | 5.4 W (at 20 °C) |
| Hold-In Power Consumption In W | 5.4 W at 20 °C |
| Operating Time | 16. 24 ma ananing |
| Operating time | 1624 ms opening |
| | 53.5572.45 ms closing |
| Time Constant | 28 ms |
| Maximum Operating Rate | 3600 cyc/h 60 °C |
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| Connections - Terminals | Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end |
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| | Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without |
| | cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without |
| | cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable |
| | end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without |
| | cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without |
| | cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible without |
| | cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible without |
| | cable end Power circuit: screw clamp terminals 1 110 mm² - cable stiffness: flexible with |
| | cable end Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: flexible with |
| | cable end |
| | Power circuit: screw clamp terminals 1 1.510 mm ² - cable stiffness: solid without cable end |
| | Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: solid 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: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm |
| | Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2 |
| Auxiliary Contact Composition | 1 NO + 1 NC |
| 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 Voltage | 17 V for signalling circuit |
| Minimum Switching Current | 5 mA for signalling circuit |
| Insulation Resistance | > 10 MOhm 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 |
| Mounting Support | Plate Rail |
| Environment | |
| Standards | CSA C22.2 No 14 |
| otania ao | EN 60947-4-1 |
| | EN 60947-5-1 IEC 60947-4-1 |
| | IEC 60947-5-1 UL 508 |
| Product Certifications | GOST |
| | RINA |
| | CCC CSA |
| | UL |
| | LROS (Lloyds register of shipping) GL |
| | BV |
| | DNV |
| Ip Degree Of Protection | IP20 front face conforming to IEC 60529 |
| Protective Treatment | TH conforming to IEC 60068-2-30 |
| Climatic Withstand | conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat |
| Permissible Ambient Air Temperature Around The Device | -6080 °C storage |
| porataro rabana ino bevide | -4060 °C operation 6070 °C with derating |
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| 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 | 45 mm | |
| Depth | 99 mm | |
| Net Weight | 0.54 kg | |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|-----|
| Number Of Units In Package 1 | 1 |

Contractual warranty

Warranty 18 months