



TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 200 V DC coil

LC1D1235LD

! Discontinued

Main

| Range | TeSys | |
|--------------------------------|--|--|
| Range Of Product | TeSys Deca | |
| 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 | 16 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit | |
| [Uc] Control Circuit Voltage | 200 V DC | |

Complementary

| o o mpromontary | | |
|-----------------------------|--|--|
| Motor Power Kw | 3 kW at 220230 V AC 50/60 Hz 5.5 kW at 380400 V AC 50/60 Hz | |
| | 5.5 kW at 415440 V AC 50/60 Hz | |
| | 7.5 kW at 500 V AC 50/60 Hz 7.5 kW at 660690 V AC 50/60 Hz | |
| | 7.5 KW at 660690 V AC 50/60 HZ | |
| Motor Power Hp | 0.5 hp at 115 V AC 50/60 Hz for 1 phase motors | |
| | 2 hp at 230/240 V AC 50/60 Hz for 1 phase motors | |
| | 3 hp at 200/208 V AC 50/60 Hz for 3 phases motors | |
| | 3 hp at 230/240 V AC 50/60 Hz for 3 phases motors | |
| | 7.5 hp at 460/480 V AC 50/60 Hz for 3 phases motors | |
| | 10 hp at 575/600 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 | 10 A (at 60 °C) for signalling circuit | |
| Thermal Current | 16 A (at 60 °C) for power circuit | |
| Irms Rated Making Capacity | 250 A at 440 V for power circuit conforming to IEC 60947 | |
| | 140 A AC for signalling circuit conforming to IEC 60947-5-1 | |
| | 250 A DC for signalling circuit conforming to IEC 60947-5-1 | |
| Rated Breaking Capacity | 250 A at 440 V for power circuit conforming to IEC 60947 | |

| [Icw] Rated Short-Time Withstand | |
|---|---|
| Current | 105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min 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 40 A gG at <= 690 V coordination type 1 for power circuit 25 A gG at <= 690 V coordination type 2 for power circuit |
| Average Impedance | 2.5 mOhm - Ith 16 A 50 Hz for power circuit |
| Power Dissipation Per Pole | 0.36 W AC-3 1.56 W AC-1 |
| [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 |
| 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 |
| Mechanical Durability | 30 Mcycles |
| Electrical Durability | 2 Mcycles 12 A AC-3 at Ue <= 440 V 0.8 Mcycles 25 A AC-1 at Ue <= 440 V |
| Control Circuit Type | DC standard |
| Coil Technology | With integral suppression device |
| 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 |
| Inrush Power In W | · · · · · · · · · · · · · · · · · · · |
| Inrush Power In W Hold-In Power Consumption In W | 11.25 Uc (6070 °C):operational DC |
| | 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) |
| Hold-In Power Consumption In W | 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing |
| Hold-In Power Consumption In W Operating Time | 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening |
| Hold-In Power Consumption In W Operating Time Time Constant | 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms |
| Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate | 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end |
| Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals | 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end |
| Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Auxiliary Contact Composition | 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end 1 NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 |
| Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Auxiliary Contact Composition Auxiliary Contacts Type | 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end 1 NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1 |
| Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Auxiliary Contact Composition Auxiliary Contacts Type Signalling Circuit Frequency | 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end 1 NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1 |
| Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Auxiliary Contact Composition Auxiliary Contacts Type Signalling Circuit Frequency Minimum Switching Voltage | 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end T NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz |

| Mounting Support | Plate Rail |
|-------------------------------|---|
| | |
| Environment | |
| 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 | CSA DNV |
| | LROS (Lloyds register of shipping) |
| | GL |
| | CCC UL |
| | BV |
| | RINA |
| | GOST |
| 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 | -6080 °C storage |
| Temperature Around The Device | -4060 °C operation |
| | 6070 °C with derating |
| 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 open (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms) |
| Height | 99 mm |
| Width | 45 mm |
| Depth | 93 mm |
| Net Weight | 0.485 kg |
| | |
| Packing Units | |
| Unit Type Of Package 1 | PCE |

Contractual warranty

Number Of Units In Package 1

| Warranty | 18 months |
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