





Main

| | |
|---|---|
| Commercial Status | Commercialised |
| Range of product | TeSys D |
| Product or component type | Contacteur |
| Device short name | LC1D |
| Contacteur application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 4P |
| Pole contact composition | 2 NO + 2 NC |
| [Ue] rated operational voltage | <= 300 V DC for power circuit <= 690 V AC 25...400 Hz for power circuit |
| [Ie] rated operational current | 25 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit |
| Control circuit type | AC 50/60 Hz |
| Control circuit voltage | 120 V AC 50/60 Hz |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947 |
| Overtoltage category | III |
| [Ith] conventional free air thermal current | 10 A at <= 140 °F (60 °C) for signalling circuit 25 A at <= 140 °F (60 °C) for power circuit |
| Irms rated making capacity | 250 A DC for signalling circuit conforming to IEC 60947-5-1 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 250 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 61 A <= 104 °F (40 °C) 1 min power circuit 30 A <= 104 °F (40 °C) 10 min power circuit 140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 100 A 1 s signalling circuit 210 A <= 104 °F (40 °C) 1 s power circuit 105 A <= 104 °F (40 °C) 10 s power circuit |
| Associated fuse rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1 25 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 1 for power circuit |
| Average impedance | 2.5 mOhm at 50 Hz - Ith 25 A for power circuit |
| [Ui] rated insulation voltage | 600 V for signalling circuit certifications UL 600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications UL 600 V for power circuit certifications CSA 690 V for power circuit conforming to IEC 60947-4-1 |
| Electrical durability | 0.8 Mcycles 25 A AC-1 at Ue <= 440 V |
| Power dissipation per pole | 1.56 W AC-1 |
| Protective cover | With |
| Mounting support | Plate Rail |
| Standards | EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14 |

| | |
|--------------------------|---|
| Product certifications | BV CCC CSA DNV GL GOST RINA UL LROS |
| Connections - terminals | Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - 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 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end |
| Tightening torque | Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm |
| Operating time | 4...19 ms opening 12...22 ms closing |
| Safety reliability level | B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 |
| Mechanical durability | 15 Mcycles |
| Operating rate | 3600 cyc/h at ≤ 140 °F (60 °C) |

Complementary

| | |
|---------------------------------|---|
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.85...1.1 Uc at 140 °F (60 °C) operational 60 Hz 0.8...1.1 Uc at 140 °F (60 °C) operational 50 Hz 0.3...0.6 Uc at 140 °F (60 °C) drop-out 50/60 Hz |
| Inrush power in VA | 70 VA at 68 °F (20 °C) (cos φ 0.75) 50 Hz 70 VA at 68 °F (20 °C) (cos φ 0.75) 60 Hz |
| Hold-in power consumption in VA | 7 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz 7.5 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz |
| Heat dissipation | 2...3 W at 50/60 Hz |
| Auxiliary contacts type | Type mirror contact (1 NC) conforming to IEC 60947-4-1 Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 |

| | |
|------------------------------|---|
| Signalling circuit frequency | 25...400 Hz |
| Minimum switching current | 5 mA for signalling circuit |
| Minimum switching voltage | 17 V for signalling circuit |
| Non-overlap time | 1.5 ms on energisation (between NC and NO contact) 1.5 ms on de-energisation (between NC and NO contact) |
| Insulation resistance | > 10 MOhm for signalling circuit |

Environment

| | |
|---|--|
| IP degree of protection | IP2x 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 Uc |
| 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 | Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 10 Gn for 11 ms Vibrations contactor closed 4 Gn, 5...300 Hz Vibrations contactor open 2 Gn, 5...300 Hz |
| Height | 3.35 in (85 mm) |
| Width | 1.77 in (45 mm) |
| Depth | 3.62 in (92 mm) |
| Product weight | 0.8 lb(US) (0.365 kg) |

Ordering and shipping details

| | |
|-----------------------|---|
| Category | 22345 - CTR,D-LINE,OPEN,NONREV-NEW |
| Discount Schedule | I12 |
| GTIN | 00785901407911 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.84 |
| Product availability | Stock - Normally stocked in distribution facility |
| Returnability | Y |
| Country of origin | FR |

Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS | Compliant - since 0702 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available Download Product Environmental |
| Product end of life instructions | Need no specific recycling operations |

Contractual warranty

| | |
|--------|-----------|
| Period | 18 months |
|--------|-----------|