LC1D128GD

TeSys Deca contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 25 A - 125 V DC coil





Main

| Range | TeSys |
|--------------------------------|---|
| Range of product | TeSys Deca |
| Product or component type | Contactor |
| Device short name | LC1D |
| Contactor application | Resistive load |
| Utilisation category | AC-1 AC-3 AC-3e AC-4 |
| Poles description | 4P |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC |
| [le] rated operational current | 25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit |
| [Uc] control circuit voltage | 125 V DC |

Complementary

| Complementary | | |
|---|--|--|
| Compatibility code | LC1D | |
| Pole contact composition | 2 NO + 2 NC | |
| Contact compatibility | M7 | |
| Protective cover | With | |
| [lth] conventional free air thermal current | 25 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling 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 | |
| [lcw] 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 25 A 50 Hz for power circuit | |
| Power dissipation per pole | 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 | 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 | 5.4 W (at 20 °C) | |
| Hold-in power consumption in W | 5.4 W at 20 °C | |
| Operating time | 53.5572.45 ms closing 1624 ms opening | |
| Time constant | 28 ms | |
| Maximum operating rate | 3600 cyc/h 60 °C | |
| Connections - terminals | Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end 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: flexible with 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 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end | |
| Tightening torque | Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mn Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No | |
| 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 contact1.5 ms on energisation between NC and NO contact | |
| | | |

Environment

| CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 | |
|---|--|
| IEC 60947-4-1 IEC 60947-5-1 | |
| IEC 60947-5-1 | |
| | |
| UL 508 | |
| | |
| RINA | |
| DNV | |
| LROS (Lloyds register of shipping) | |
| GOST | |
| CSA UL | |
| CCC | |
| BV | |
| GL | |
| IP20 front face conforming to IEC 60529 | |
| TH conforming to IEC 60068-2-30 | |
| Conforming to IACS E10 exposure to damp heat | |
| Conforming to IEC 60947-1 Annex Q category D exposure to damp heat | |
| -4060 °C | |
| 6070 °C with derating | |
| 03000 m | |
| 850 °C conforming to IEC 60695-2-1 | |
| V1 conforming to UL 94 | |
| 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) | |
| 85 mm | |
| 45 mm | |
| 99 mm | |
| 0.525 kg | |
| | |

Packing Units

| r acking critis | | |
|------------------------------|--------|--|
| Unit Type of Package 1 | PCE | |
| Number of Units in Package 1 | 1 | |
| Package 1 Height | 4.5 cm | |
| Package 1 Width | 8.5 cm | |
| Package 1 Length | 9.2 cm | |
| Package 1 Weight | 570 g | |

Offer Sustainability

| Sustainable offer status | Green Premium product |
|----------------------------|---|
| EU RoHS Directive | Compliant EEU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | ₫Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | ☑ End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free | Yes |