Product data sheet Characteristics

LC1D258D7

Contactor, TeSys Deca, 4P(2NO+2NC), AC-1, <= 440V, 40A, 42V AC 50/60Hz coil, screw terminal





Main

| 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 |
| [le] rated operational current | 40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit |
| [Uc] control circuit voltage | 42 V AC 50/60 Hz |
| | |

Complementary

| LC1D |
|---|
| |
| 2 NO + 2 NC |
| M6 |
| With |
| 10 A (at 60 °C) for signalling circuit 40 A (at 60 °C) for power circuit |
| 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947 |
| 450 A at 440 V for power circuit conforming to IEC 60947 |
| 240 A 40 °C - 10 s for power circuit 380 A 40 °C - 1 s for power circuit 50 A 40 °C - 10 min for power circuit 120 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 |
| 10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit |
| 2 MOhm - Ith 40 A 50 Hz for power circuit |
| 3.2 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- |
| Salety Tellability level | to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming- to EN/ISO 13849-1 |
| Mechanical durability | 15 Mcycles |
| Electrical durability | 1.4 Mcycles 40 A AC-1 at Ue <= 440 V |
| Control circuit type | AC at 50/60 Hz |
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.30.6 Uc (-4060 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz |
| Inrush power in VA | 70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) |
| Hold-in power consumption in VA | 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Heat dissipation | 23 W at 50/60 Hz |
| Operating time | 1222 ms closing 419 ms opening |
| Maximum operating rate | 3600 Cyc/H 60 °C |
| Table size that | 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 withcable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexiblewith cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid withoutcable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid withoutcable end Power circuit: screw clamp terminals 1 2.510 mm² - cable stiffness: flexiblewithout cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexiblewithout cable end Power circuit: screw clamp terminals 1 2.510 mm² - cable stiffness: flexiblewith cable end Power circuit: screw clamp terminals 1 2.510 mm² - cable stiffness: flexiblewith cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 2.516 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.516 mm² - 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 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver-pozidriv No 2 Power circuit: 1.8 N.m - on screw clamps terminals - with screwdriver flat Ø 6 mm Power circuit: 1.8 N.m - on screw clamps terminals - with screwdriver Philips No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver-pozidriv 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 | Rail Plate |

Environment

| Liviloimon | |
|---|--|
| Standards | EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4 |
| Product certifications | UL CSA CCC EAC UKCA CB EU-RO-MR by DNV-GL |
| 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 | -4060 °C 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 closed (15 Gn for 11 ms) Shocks contactor open (8 Gn for 11 ms) |
| Height | 91 Mm |
| Width | 45 Mm |
| Depth | 99 Mm |
| Net weight | 0.425 Kg |
| | |

Packing Units

| PCE |
|-----------|
| 1 |
| 5.5 Cm |
| 9.5 Cm |
| 12.0 Cm |
| 468.0 G |
| S02 |
| 15 |
| 15.0 Cm |
| 30.0 Cm |
| 40.0 Cm |
| 7.505 Kg |
| P06 |
| 240 |
| 77.0 Cm |
| 80.0 Cm |
| 60.0 Cm |
| 128.58 Kg |
| |



Offer Sustainability

| Sustainable offer status | Green Premium product |
|----------------------------|---|
| REACh Regulation | ☑ REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Compliant EEU RoHS Declaration |
| Toxic heavy metal free | Yes |
| 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 |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |

Contractual warranty

Product Life Status: Commercialised