LC1D258F7

Contactor, TeSys Deca, 4P(2NO+2NC), AC-1, 0 to 440V, 40A, 110VAC 50/60Hz coil





Main

| Range of product | TeSys Deca |
|--------------------------------|--|
| Product or component type | Contactor |
| Device short name | LC1D |
| Contactor application | Resistive load |
| Utilisation category | AC-1 |
| 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 | 110 V AC 50/60 Hz |

Complementary

| Pole contact composition 2 NO + 2 NC Contact compatibility M6 Protective cover With 10 A (at 60 °C) for signalling circuit 40 A (at 60 °C) for power circuit Irms rated making capacity 140 A AC for signalling circuit conforming to IEC 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947 Rated breaking capacity 450 A at 440 V for power circuit conforming to IEC 60947 Rated short-time withstand current 240 A 40 °C - 10 s for power circuit conforming to IEC 60947 Rated short-time withstand current 240 A 40 °C - 10 s for power circuit 50 A 40 °C - 10 s for power circuit 50 A 40 °C - 10 s for power circuit 120 A 500 ms for signalling circuit 120 A | Complementary | |
|--|---|--|
| Contact compatibility M6 Protective cover With 10 A (at 60 °C) for signalling circuit 40 A (at 60 °C) for power circuit 17 A A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-1 Rated breaking capacity 450 A at 440 V for power circuit conforming to IEC 60947 Rated breaking capacity 450 A at 440 V for power circuit conforming to IEC 60947 Rated breaking capacity 450 A 40 °C - 10 s for power circuit 260 A 40 °C - 10 min for power circuit 270 A 40 °C - 1 min for power circuit 270 A - 500 ms for signalling circuit | Compatibility code | LC1D |
| Protective cover With | Pole contact composition | 2 NO + 2 NC |
| The property of the property | Contact compatibility | M6 |
| 40 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 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947 Rated breaking capacity 450 A at 440 V for power circuit conforming to IEC 60947 [Icw] rated short-time withstand current 240 A 40 °C - 10 s for power circuit 50 A 40 °C - 1 s for power circuit 50 A 40 °C - 1 s for power circuit 120 A 40 °C - 1 s for power circuit 120 A 40 °C - 1 min for power circuit 120 A - 500 ms for signalling circuit 120 A - 500 ms fo | Protective cover | With |
| 250 A DC for signalling circuit conforming to IEC 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947 Rated breaking capacity 450 A at 440 V for power circuit conforming to IEC 60947 [Icw] rated short-time withstand current 240 A 40 °C - 10 s for power circuit 380 A 40 °C - 1 s for power circuit 50 A 40 °C - 1 s for power circuit 120 A 40 °C - 1 min for power circuit 120 A 40 °C - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 140 A - 100 ms for signalling circuit 140 A - 100 ms for signalling circuit 140 A gG at signalling circuit conforming to IEC 60947-5-1 63 A gG at signalling circuit conforming to IEC 60947-5-1 63 A gG at signalling circuit conforming to IEC 60947-6-1 83 EV Acrage impedance 2 mOhm - Ith 40 A 50 Hz for power circuit 40 A gG at signalling circuit signalling circuit conforming to IEC 60947-4-1 Power circuit: 600 V Conforming to IEC 60947-4-1 Power circuit: 600 V UL certified Signalling | [Ith] conventional free air thermal current | |
| [[cw] rated short-time withstand current 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 120 A - 500 ms for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 140 A - 100 ms for signalling circuit 140 A - 100 ms for signalling circuit 140 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 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 2 | Irms rated making capacity | 250 A DC for signalling circuit conforming to IEC 60947-5-1 |
| 380 A 40 °C - 1 s for power circuit 50 A 40 °C - 10 min for power circuit 120 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 120 A 40 °C - 1 min for power circuit 120 A - 500 ms for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 140 A - 100 ms for signalling circuit 140 A - 100 ms for signalling circuit 153 A gG at <= 690 V coordination type 1 for power circuit 154 Average impedance 155 A gG at <= 690 V coordination type 2 for power circuit 156 A verage impedance 157 Average impedance 158 A gG at <= 690 V coordination type 2 for power circuit 159 Average impedance 159 A gG at <= 690 V coordination type 2 for power circuit 150 A verage impedance 160 A verage impedance 170 A verage impedance 170 A verage impedance 170 A verage impedance 170 A gG at <= 690 V coordination type 2 for power circuit 170 A verage impedance 170 A verage impedance 170 A verage impedance 180 A verage imped | Rated breaking capacity | 450 A at 440 V for power circuit conforming to IEC 60947 |
| 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit Average impedance 2 mOhm - Ith 40 A 50 Hz for power circuit Power dissipation per pole 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: 690 V conforming to IEC 60947-1 Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 690 V UL certified Signalling circuit: 600 V UL certified Signalling circui | [lcw] rated short-time withstand current | 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 |
| Power dissipation per pole [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 UL 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 15 Mcycles Electrical durability 1.4 Mcycles 40 A AC-1 at Ue <= 440 V | Associated fuse rating | 63 A gG at <= 690 V coordination type 1 for power circuit |
| [Ui] rated insulation voltage Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V UL certified Signalling circuit: 600 V UL 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 15 Mcycles Electrical durability 1.4 Mcycles 40 A AC-1 at Ue <= 440 V | Average impedance | 2 mOhm - Ith 40 A 50 Hz for power circuit |
| 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 15 Mcycles Electrical durability 1.4 Mcycles 40 A AC-1 at Ue <= 440 V | Power dissipation per pole | 3.2 W AC-1 |
| 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 15 Mcycles Electrical durability 1.4 Mcycles 40 A AC-1 at Ue <= 440 V | [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 |
| [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 15 Mcycles Electrical durability 1.4 Mcycles 40 A AC-1 at Ue <= 440 V | Overvoltage category | III |
| 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 15 Mcycles Electrical durability 1.4 Mcycles 40 A AC-1 at Ue <= 440 V | Pollution degree | 3 |
| 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 | [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947 |
| Electrical durability 1.4 Mcycles 40 A AC-1 at Ue <= 440 V | Safety reliability level | 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO |
| | Mechanical durability | 15 Mcycles |
| Control circuit type AC at 50/60 Hz | Electrical durability | 1.4 Mcycles 40 A AC-1 at Ue <= 440 V |
| | Control circuit type | AC at 50/60 Hz |

| 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 |
| Connections - terminals | 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 2 12.5 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 mm² - 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 2.510 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 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 contact1.5 ms on energisation between NC and NO contact |
| Mounting support | Rail Plate |

Environment

| Livilorit | |
|---|--|
| 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 | 105 mm |
| Width | 45 mm |
| Depth | 99 mm |
| Net weight | 0.425 kg |
| | |

Packing Units

| r doking office | |
|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.800 cm |
| Package 1 Width | 9.500 cm |
| Package 1 Length | 12.000 cm |
| Package 1 Weight | 465 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 16 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 8.021 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 128 |
| Package 3 Height | 45.000 cm |
| Package 3 Width | 60.000 cm |
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 72.168 kg |
| | |

Offer Sustainability

Contractual warranty

Warranty

| Sustainable offer status | Green Premium product |
|----------------------------|---|
| REACh Regulation | ☑ REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Compliant EPEU 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 |

18 months