

Contactor, TeSys Deca, 4P(2NO+2NC), AC-1, <= 440V 40A, 208V AC 50/60Hz coil, screw terminal

LC1D258LE7

① Discontinued

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 | 40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit | | |
| [Uc] Control Circuit Voltage | 208 V AC 50/60 Hz | | |

Complementary

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|--|---|--|--|--|
| Compatibility Code | LC1D | | | |
| Pole Contact Composition | 2 NO + 2 NC | | | |
| Contact Compatibility | M6 | | | |
| Protective Cover | With | | | |
| [Ith] Conventional Free Air Thermal Current | 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 60947-5-1 250 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 - 10 min for power circuit 120 A 40 °C - 1 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 | | | |
| Associated Fuse Rating | 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 | | | |
| 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: 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 | | | | |
| Control Circuit Type | AC at 50/60 Hz | | | | |
| Coil Technology | Without built-in suppressor module | | | | |
| Control Circuit Voltage Limits | 0.30.6 Uc (-4070 °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 11.1 Uc (6070 °C):operational AC 50/60 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 Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible without cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 2.516 mm² - cable stiffness: solid without cable end Power circuit: connector 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 Power circuit: 1.8 N.m - on connector - with screwdriver flat Ø 6 mm Power circuit: 1.8 N.m - on connector - with screwdriver Philips 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 | | |
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| Mounting Support | Rail Plate | | |
| 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 CCC UL LROS (Lloyds register of shipping) GL BV RINA GOST DNV | | |
| p 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 | -6080 °C storage -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 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 | | |

| Unit Type Of Package 1 | PCE |
|------------------------------|-----|
| Number Of Units In Package 1 | 1 |

Contractual warranty

| Warrantv | 18 months | |
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