

Product Datasheet

Characteristic

LC1D40008E7

Contactor, TeSys Deca, 4P(2NO+2NC),
AC-1 , <=440V, 60A,48V AC 50/60Hz
coil, screw clamp terminal



Main

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|--------------------------------|--|
| Range | TeSys |
| 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 25...400 Hz Power circuit: <= 300 V DC |
| [Ie] rated operational current | 60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit |
| [Uc] control circuit voltage | 48 V AC 50/60 Hz |

Complementary

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| Compatibility code | LC1D |
| Pole contact composition | 2 NO + 2 NC |
| Protective cover | Without |
| [Ith] conventional free air thermal current | 60 A (at 60 °C) for power circuit |
| Irms rated making capacity | 800 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 800 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit 72 A 40 °C - 10 min for power circuit 165 A 40 °C - 1 min for power circuit |
| Associated fuse rating | 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit |
| Average impedance | 1.5 mOhm - Ith 60 A 50 Hz for power circuit |
| Power dissipation per pole | 5.4 W AC-1 |
| [Ui] rated insulation voltage | Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-4-1 |
| Overvoltage category | III |
| Pollution degree | 3 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947 |

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| 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 | 6 Mcycles |
| Electrical durability | 1.4 Mcycles 60 A AC-1 at $U_e \leq 440$ V |
| Control circuit type | AC at 50/60 Hz |
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.3...0.6 U_c (-40...70 °C):drop-out AC 50/60 Hz 0.8...1.1 U_c (-40...60 °C):operational AC 50 Hz 0.85...1.1 U_c (-40...60 °C):operational AC 60 Hz 1...1.1 U_c (60...70 °C):operational AC 50/60 Hz |
| Inrush power in VA | 140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz cos phi 0.75 (at 20 °C) |
| Hold-in power consumption in VA | 13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Heat dissipation | 4...5 W at 50/60 Hz |
| Operating time | 4...19 ms opening 12...26 ms closing |
| Maximum operating rate | 3600 cyc/h 60 °C |
| Connections - terminals | Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: solid without cable end Power circuit: screw connection 1 1...35 mm ² - cable stiffness: flexible without cable end Power circuit: screw connection 2 1...25 mm ² - cable stiffness: flexible without cable end Power circuit: screw connection 1 1...35 mm ² - cable stiffness: flexible with cable end Power circuit: screw connection 2 1...25 mm ² - cable stiffness: flexible with cable end Power circuit: screw connection 1 1...35 mm ² - cable stiffness: solid without cable end Power circuit: screw connection 2 1...25 mm ² - 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: 8 N.m - on screw clamp terminals - cable 25...35 mm ² hexagonal screw head 4 mm Power circuit: 5 N.m - on screw clamp terminals - cable 1...25 mm ² hexagonal screw head 4 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 |
| mounting support | Rail Plate |

Environment

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| 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 | CCC CSA BV UL DNV RINA LROS (Lloyds register of shipping) GOST |

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|---|---|
| | 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 |
| Permissible ambient air temperature around the device | -40...60 °C 60...70 °C with derating |
| Operating altitude | 0...3000 m |
| Fire resistance | 850 °C conforming to IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Shocks contactor open (8 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz) |
| Height | 127 mm |
| Width | 85 mm |
| Depth | 125 mm |
| net weight | 1.44 kg |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 15.500 cm |
| Package 1 Width | 11.000 cm |
| Package 1 Length | 13.800 cm |
| Package 1 Weight | 1.466 kg |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 5 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 7.639 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 80 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 60.000 cm |
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 133.060 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | Free of Substances of Very High Concern above the threshold |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Compliant |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| China RoHS Regulation | Pro-active China RoHS declaration (out of China RoHS legal scope) |
| RoHS exemption information | Yes |
| Environmental Disclosure | ENVPEP110205EN |
| Circularity Profile | N/A |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |