

Product data sheet

Specifications



Contactor, TeSys Deca,
4P(2NO+2NC), AC-1, <=440V,
125A, 200V AC 50/60Hz coil, screw
clamp terminal

LC1D80008L7

! Discontinued

! Discontinued on: Aug 31, 2023

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: <= 300 V DC Power circuit: <= 690 V AC 25...400 Hz |
| [Ie] Rated Operational Current | 125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit |
| [Uc] Control Circuit Voltage | 200 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 | 125 A (at 60 °C) for power circuit |
| Irms Rated Making Capacity | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| Rated Breaking Capacity | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] Rated Short-Time Withstand Current | 640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s for power circuit 135 A 40 °C - 10 min for power circuit 320 A 40 °C - 1 min for power circuit |
| Associated Fuse Rating | 200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit |
| Average Impedance | 0.8 mOhm - Ith 125 A 50 Hz for power circuit |
| Power Dissipation Per Pole | 12.5 W AC-1 |
| [Ui] Rated Insulation Voltage | Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 |
| Overvoltage Category | III |
| Pollution Degree | 3 |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV conforming to IEC 60947 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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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 | 4 Mcycles |
| Electrical Durability | 0.8 Mcycles 125 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 | 0.85...1.1 Uc (-40...55 °C):operational AC 60 Hz 0.3...0.6 Uc (-40...70 °C):drop-out AC 50/60 Hz 0.8...1.1 Uc (-40...55 °C):operational AC 50 Hz 1...1.1 Uc (55...70 °C):operational AC 50/60 Hz |
| Inrush Power In Va | 245 VA 60 Hz cos phi 0.75 (at 20 °C) 245 VA 50 Hz cos phi 0.75 (at 20 °C) |
| Hold-In Power Consumption In Va | 26 VA 60 Hz cos phi 0.3 (at 20 °C) 26 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Heat Dissipation | 6...10 W at 50/60 Hz |
| Operating Time | 20...35 ms closing 6...20 ms opening |
| Maximum Operating Rate | 3600 cyc/h 60 °C |
| Connections - Terminals | Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...2.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid without cable end Power circuit: connector 1 4...50 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 4...25 mm² - cable stiffness: flexible without cable end Power circuit: connector 1 4...50 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 4...16 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 4...50 mm² - cable stiffness: solid without cable end Power circuit: connector 2 4...25 mm² - cable stiffness: solid without cable end |
| Tightening Torque | Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 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 | LROS (Lloyds register of shipping) UL GL GOST CSA DNV BV RINA CCC |
| Ip Degree Of Protection | IP20 front face conforming to IEC 60529 |

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| 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 |
| Mechanical Robustness | Vibrations contactor open (2 Gn, 5...300 Hz) Shocks contactor open (8 Gn for 11 ms) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor closed (10 Gn for 11 ms) |
| Height | 127 mm |
| Width | 96 mm |
| Depth | 140 mm |
| Net Weight | 1.84 kg |

Environmental

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| Flame Retardance | V1 conforming to UL 94 |
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Packing Units

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| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 15.5 cm |
| Package 1 Width | 11.0 cm |
| Package 1 Length | 13.5 cm |
| Package 1 Weight | 1.819 kg |

Contractual warranty

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| Warranty | 18 months |
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

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|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc | |
| ✓ | Toxic Heavy Metal Free | |
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free | |

Certifications & Standards

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|---------------------------|---|
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Compliant EU RoHS Declaration |
| China Rohs Regulation | China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope) |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | No need of specific recycling operations |
| 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 |