Product datasheet





Contactor, TeSys Deca, 4P(2NO+2NC), AC-1, 440V, 125A, 24V DC coil, screw clamp terminals

LP1D80008BD

Main

| Range | TeSys | |
|--------------------------------|---|--|
| Range Of Product | TeSys Deca | |
| Product Or Component Type | Contactor | |
| Device Short Name | LP1D | |
| 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 | 125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit | |
| [Uc] Control Circuit Voltage | 24 V DC | |

Complementary

| - · · · · · · · · · · · · · · · · · · · | | |
|--|---|--|
| Compatibility Code | LP1D | |
| 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 | 135 A 40 °C - 10 min for power circuit 320 A 40 °C - 1 min for power circuit 640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s 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 | r 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 | |
| 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 | |

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| Mechanical Durability | 10 Mcycles |
|--|--|
| Electrical Durability | 0.8 Mcycles 125 A AC-1 at Ue <= 440 V |
| Control Circuit Type | DC DC standard |
| Coil Technology | Without built-in suppressor module |
| Control Circuit Voltage Limits | 0.10.3 Uc (-4055 °C):drop-out DC 0.851.1 Uc (-4055 °C):operational DC |
| Inrush Power In W | 22 W (at 20 °C) |
| Hold-In Power Consumption In W | 22 W at 20 °C |
| Operating Time | 620 ms opening 2035 ms closing |
| Time Constant | 75 ms |
| 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 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid Power circuit: connector 1 450 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 425 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 450 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 416 mm² - cable stiffness: solid Power circuit: connector 1 450 mm² - cable stiffness: solid Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with 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 | Plate Rail |
| 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 | UL CSA CCC EAC UKCA CB DNV-GL RINA BV LROS (Lloyds register of shipping) |
| | |
| Ip Degree Of Protection | IP20 front face conforming to IEC 60529 |
| Ip Degree Of Protection Permissible Ambient Air Temperature Around The Device | |
| Permissible Ambient Air | IP20 front face conforming to IEC 60529 -4060 °C |

V1 conforming to UL 94

Flame Retardance

| Mechanical Robustness | Vibrations contactor open (2 Gn, 5300 Hz) Vibrations contactor closed (3 Gn, 5300 Hz) Shocks contactor open (8 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms) | |
|-----------------------|--|--|
| Height | 127 mm | |
| Width | 96 mm | |
| Depth | 196 mm | |
| Net Weight | 2.91 kg | |

Packing Units

| _ | |
|------------------------------|----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 22.5 cm |
| Package 1 Width | 14.8 cm |
| Package 1 Length | 18.0 cm |
| Package 1 Weight | 2.955 kg |

Contractual warranty

Warranty 18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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

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

Certifications & Standards

| 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 |

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