# Product data sheet

Specifications

## TeSys Deca contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 125 A - 110 V DC coil

LP1D80008FD

Discontinued

## 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 25...400 Hz |
| **[Ie] Rated Operational Current** | 125 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit |
| **[Uc] Control Circuit Voltage** | 110 V DC |

## Complementary

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|---|---|
| **Compatibility Code** | LP1D |
| **Pole Contact Composition** | 2 NO + 2 NC |
| **Protective Cover** | Without |
| **[Ith] Conventional Free Air Thermal Current** | 125 A (at 140 °F (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 104 °F (40 °C) - 10 min for power circuit<br>320 A 104 °F (40 °C) - 1 min for power circuit<br>640 A 104 °F (40 °C) - 10 s for power circuit<br>990 A 104 °F (40 °C) - 1 s for power circuit |
| **Associated Fuse Rating** | 200 A gG at <= 690 V coordination type 1 for power circuit<br>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<br>Power circuit 600 V UL<br>Power circuit 1000 V IEC 60947-4-1 |
| **Overvoltage Category** | III |
| **Pollution Degree** | 3 |
| **[Uimp] Rated Impulse Withstand Voltage** | 8 kV IEC 60947 |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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|---|---|
| **Safety Reliability Level** | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| **Mechanical Durability** | 10 Mcycles |
| **Electrical Durability** | 0.8 Mcycles 125 A AC-1 <= 440 V |
| **Control Circuit Type** | DC DC standard |
| **Coil Technology** | Without built-in suppressor module |
| **Control Circuit Voltage Limits** | 0.1...0.3 Uc -40…131 °F (-40…55 °C) drop-out DC<br>0.85...1.1 Uc -40…131 °F (-40…55 °C) operational DC |
| **Inrush Power In W** | 22 W 68 °F (20 °C)) |
| **Hold-In Power Consumption In W** | 22 W 68 °F (20 °C) |
| **Operating Time** | 6...20 ms opening<br>20...35 ms closing |
| **Time Constant** | 75 ms |
| **Maximum Operating Rate** | 3600 cyc/h 140 °F (60 °C) |
| **Connections - Terminals** | Control circuit: screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) - cable stiffness: solid<br>Control circuit: screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) - cable stiffness: solid<br>Power circuit: connector 1 0.01…0.08 in² (4…50 mm²) - cable stiffness: flexible without cable end<br>Power circuit: connector 2 0.01…0.04 in² (4…25 mm²) - cable stiffness: flexible without cable end<br>Power circuit: connector 1 0.01…0.08 in² (4…50 mm²) - cable stiffness: flexible with cable end<br>Power circuit: connector 2 0.01…0.02 in² (4…16 mm²) - cable stiffness: flexible with cable end<br>Power circuit: connector 1 0.01…0.08 in² (4…50 mm²) - cable stiffness: solid<br>Power circuit: connector 2 0.01…0.04 in² (4…25 mm²) - cable stiffness: solid<br>Control circuit: screw clamp terminals 1 0.00…0.00 in² (1…2.5 mm²) - cable stiffness: flexible with cable end |
| **Tightening Torque** | Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm<br>Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2<br>Power circuit 106.21 lbf.in (12 N.m) connector flat Ø 6 to Ø 8 mm<br>Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm)<br>Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2 |
| **Mounting Support** | Rail<br>Plate |

## Environment

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|---|---|
| **Standards** | CSA C22.2 No 14<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508 |
| **Product Certifications** | UL<br>CSA<br>CCC<br>EAC<br>UKCA<br>CB<br>DNV-GL<br>RINA<br>BV<br>LROS (Lloyds register of shipping) |
| **Ip Degree Of Protection** | IP20 front face IEC 60529 |

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|---|---|
| **Permissible Ambient Air Temperature Around The Device** | -40…140 °F (-40…60 °C)<br>140…158 °F (60…70 °C) with derating |
| **Operating Altitude** | 0...9842.52 ft (0...3000 m) |
| **Fire Resistance** | 1562 °F (850 °C) IEC 60695-2-1 |
| **Flame Retardance** | V1 conforming to UL 94 |
| **Mechanical Robustness** | Vibrations contactor open 2 Gn, 5...300 Hz)<br>Vibrations contactor closed 3 Gn, 5...300 Hz)<br>Shocks contactor open 8 Gn for 11 ms)<br>Shocks contactor closed 10 Gn for 11 ms) |
| **Height** | 5.00 in (127 mm) |
| **Width** | 3.78 in (96 mm) |
| **Depth** | 7.72 in (196 mm) |
| **Net Weight** | 6.42 lb(US) (2.91 kg) |

## Ordering and shipping details

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|---|---|
| **Category** | 22359-CTR,TESYS D,OPEN,80-150A AC&DC |
| **Discount Schedule** | I12 |
| **Gtin** | 3389110203646 |
| **Returnability** | No |

## Packing Units

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 8.07 in (20.5 cm) |
| **Package 1 Width** | 4.33 in (11.0 cm) |
| **Package 1 Length** | 5.51 in (14.0 cm) |
| **Package 1 Weight** | 6.18 lb(US) (2.804 kg) |

## Contractual warranty

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|---|---|
| **Warranty** | 18 months |

## 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-$CO_2$ 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<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>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 |