# Product datasheet

Specifications

## TeSys LRD thermal overload relays - 37...50 A - class 10A

LRD350

## Main

| | |
|---|---|
| **Range** | TeSys<br>TeSys Deca |
| **Product name** | TeSys LRD<br>TeSys Deca |
| **Product or component type** | Differential thermal overload relay |
| **Device short name** | LRD |
| **Relay application** | Motor protection |
| **Product compatibility** | LC1D65A<br>LC1D50A<br>LC1D40A |
| **Network type** | DC<br>AC |
| **Thermal overload class** | Class 10A conforming to IEC 60947-4-1 |
| **Thermal protection adjustment range** | 37…50 A |
| **[Ui] rated insulation voltage** | Power circuit: 600 V conforming to CSA<br>Power circuit: 600 V conforming to UL<br>Power circuit: 690 V conforming to IEC 60947-4-1 |

## Complementary

| | |
|---|---|
| **Network frequency** | 0...400 Hz |
| **Mounting support** | Plate, with specific accessories<br>Rail, with specific accessories<br>Under contactor |
| **Tripping threshold** | 1.14 +/- 0.06 Ir conforming to IEC 60947-4-1 |
| **Auxiliary contact composition** | 1 NO + 1 NC |
| **[Ith] conventional free air thermal current** | 5 A for signalling circuit |
| **Permissible current** | 0.95 A at 380 V AC-15 for signalling circuit<br>0.06 A at 440 V DC-13 for signalling circuit |
| **[Ue] rated operational voltage** | 690 V AC 0...400 Hz for power circuit conforming to IEC 60947-4-1 |
| **Associated fuse rating** | 4 A gG for signalling circuit<br>4 A BS for signalling circuit |
| **[Uimp] rated impulse withstand voltage** | 6 kV |
| **Phase failure sensitivity** | Tripping current 130 % of Ir on two phase, the last one at 0 |
| **Control type** | Red push-button: stop<br>Blue push-button: reset |
| **Temperature compensation** | -20…60 °C |

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

| | |
|---|---|
| **Connections - terminals** | Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² solid without cable end<br>Power circuit: EverLink BTR screw connectors 1 cable(s) 1…35 mm² flexible without cable end<br>Power circuit: EverLink BTR screw connectors 1 cable(s) 1…35 mm² flexible with cable end<br>Power circuit: EverLink BTR screw connectors 1 cable(s) 1…35 mm² solid without cable end |
| **Tightening torque** | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 5 N.m - on EverLink BTR screw connectors |
| **Height** | 70 mm |
| **Width** | 55 mm |
| **Depth** | 123 mm |
| **Net weight** | 0.375 kg |

# Environment

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|---|---|
| **Climatic withstand** | conforming to IACS E10 |
| **IP degree of protection** | IP20 conforming to IEC 60529 |
| **Ambient air temperature for operation** | -20…60 °C without derating conforming to IEC 60947-4-1 |
| **Ambient air temperature for storage** | -60…70 °C |
| **Flame retardance** | V1 conforming to UL 94 |
| **Mechanical robustness** | Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7<br>Vibrations: 4 gn conforming to IEC 60068-2-6 |
| **Dielectric strength** | 1.89 kV at 50 Hz conforming to IEC 60947-1 |
| **Standards** | EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>UL 60947-4-1<br>UL 60947-5-1<br>CSA C22.2 No 60947-4-1<br>CSA C22.2 No 60947-5-1<br>EN 50495 |
| **product certifications** | IEC<br>UL<br>CSA<br>CCC<br>EAC<br>DNV-GL<br>RMRS<br>EU-RO MR<br>LROS (Lloyds register of shipping)<br>ATEX INERIS<br>UKCA |

# Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 6.4 cm |
| **Package 1 Width** | 10.5 cm |
| **Package 1 Length** | 13.7 cm |
| **Package 1 Weight** | 394.0 g |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 13 |

| | |
|---|---|
| **Package 2 Height** | 15.0 cm |
| **Package 2 Width** | 30.0 cm |
| **Package 2 Length** | 40.0 cm |
| **Package 2 Weight** | 5.504 kg |
| **Unit Type of Package 3** | P06 |
| **Number of Units in Package 3** | 208 |
| **Package 3 Height** | 77.0 cm |
| **Package 3 Width** | 80.0 cm |
| **Package 3 Length** | 60.0 cm |
| **Package 3 Weight** | 96.564 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 >

Sustainable Packaging  Transparency  RoHS/REACh

## Resource performance

- Sustainable Packaging

## Well-being performance

- Reach Free Of Svhc
- Toxic Heavy Metal Free
- Mercury Free
- Rohs Exemption Information — Yes

## Certifications & Standards

| | |
|---|---|
| **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 |
| **Circularity Profile** | End of Life Information |