

# 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                                                                                  |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

|                                       |                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 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

|          |           |
|----------|-----------|
| 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<sub>2</sub> 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 |

## Certifications & Standards

|                          |                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                           |
| Eu Rohs Directive        | Compliant<br><a href="#">EU RoHS Declaration</a>                                                            |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope) |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                               |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                     |