

# Product datasheet

Specifications



## Thermal overload relay. TeSys LRD. 12...18 A. class 10A

LRD21

### 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               | LC1D32<br>LC1D18<br>LC1D25<br>LC1D38                                                                                                |
| Network Type                        | AC<br>DC                                                                                                                            |
| Thermal Overload Class              | Class 10A conforming to IEC 60947-4-1                                                                                               |
| Thermal Protection Adjustment Range | 12...18 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                         | 1.5 A at 240 V AC-15 for signalling circuit<br>0.1 A at 250 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<br>Power circuit: screw clamp terminals 1 cable(s) 1.5...10 mm² flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1...4 mm² flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1...6 mm² solid |
| Tightening Torque       | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 2.5 N.m - on screw clamp terminals                                                                                                                                                                                                                                                                                                                                                                                                    |
| Height                  | 66 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Width                   | 45 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Depth                   | 70 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Net Weight              | 0.124 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                 | Vibrations: 6 Gn conforming to IEC 60068-2-6<br>Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7                                                                  |
| 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>GB/T 14048.4<br>GB/T 14048.5<br>EN 50495 |
| Product Certifications                | IEC<br>UL<br>CSA<br>CCC<br>EAC<br>BV<br>RINA<br>DNV-GL<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             | 5.000 cm  |
| Package 1 Width              | 7.800 cm  |
| Package 1 Length             | 8.800 cm  |
| Package 1 Weight             | 147.000 g |
| Unit Type Of Package 2       | S02       |
| Number Of Units In Package 2 | 24        |

|                  |           |
|------------------|-----------|
| Package 2 Height | 15.000 cm |
| Package 2 Width  | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 3.842 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.

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Transparency   RoHS/REACH

## Well-being performance

 Mercury Free

 RoHS Exemption Information   [Yes](#)

## Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive        | Compliant with Exemptions                                                                                                   |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                               |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                     |