

# Product datasheet

Specifications



## TeSys LRD thermal overload relays - 1.6...2.5 A - class 10A

LRD07

### Main

|  |   |
|--|---|
| <b>Range</b>                               | TeSys<br>TeSys Deca   |
| <b>Product Name</b>                        | TeSys LRD<br>TeSys Deca   |
| <b>Product Or Component Type</b>           | Differential thermal overload relay   |
| <b>Device Short Name</b>                   | LRD   |
| <b>Relay Application</b>                   | Motor protection  |
| <b>Product Compatibility</b>               | LC1D18<br>LC1D38<br>LC1D32<br>LC1D25<br>LC1D12<br>LC1D09  |
| <b>Network Type</b>                        | DC<br>AC  |
| <b>Thermal Overload Class</b>              | Class 10A conforming to IEC 60947-4-1   |
| <b>Thermal Protection Adjustment Range</b> | 1.6...2.5 A   |
| <b>[Ui] Rated Insulation Voltage</b>       | 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

|   |   |
|---|---|
| <b>Network Frequency</b>                                      | 0...400 Hz  |
| <b>Mounting Support</b>                                       | Plate, with specific accessories<br>Rail, with specific accessories<br>Under contactor    |
| <b>Tripping Threshold</b>                                     | 1.14 +/- 0.06 I <sub>r</sub> conforming to IEC 60947-4-1                                  |
| <b>Auxiliary Contact Composition</b>                          | 1 NO + 1 NC   |
| <b>[I<sub>th</sub>] Conventional Free Air Thermal Current</b> | 5 A for signalling circuit  |
| <b>Permissible Current</b>                                    | 3 A at 120 V AC-15 for signalling circuit<br>0.22 A at 125 V DC-13 for signalling circuit |
| <b>[U<sub>e</sub>] Rated Operational Voltage</b>              | 690 V AC 0...400 Hz for power circuit conforming to IEC 60947-4-1                         |
| <b>Associated Fuse Rating</b>                                 | 4 A gG for signalling circuit<br>4 A BS for signalling circuit                            |
| <b>[U<sub>imp</sub>] Rated Impulse Withstand Voltage</b>      | 6 kV  |
| <b>Phase Failure Sensitivity</b>                              | Tripping current 130 % of I <sub>r</sub> on two phase, the last one at 0                  |
| <b>Control Type</b>   | Red push-button: stop<br>Blue push-button: reset  |

|                                 |   |
|---------------------------------|---|
| <b>Temperature Compensation</b> | -20...60 °C   |
| <b>Connections - Terminals</b>  | Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> solid without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1.5...10 mm <sup>2</sup> flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1...6 mm <sup>2</sup> solid without cable end |
| <b>Tightening Torque</b>        | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 1.7 N.m - on screw clamp terminals  |
| <b>Height</b>                   | 66 mm   |
| <b>Width</b>                    | 45 mm   |
| <b>Depth</b>                    | 70 mm   |
| <b>Net Weight</b>               | 0.124 kg  |

## Environment

|  |  |
|--|--|
| <b>Climatic Withstand</b>                    | conforming to IACS E10   |
| <b>Ip Degree Of Protection</b>               | IP20 conforming to IEC 60529   |
| <b>Ambient Air Temperature For Operation</b> | -20...60 °C without derating conforming to IEC 60947-4-1   |
| <b>Ambient Air Temperature For Storage</b>   | -60...70 °C  |
| <b>Flame Retardance</b>                      | V1 conforming to UL 94   |
| <b>Mechanical Robustness</b>                 | Vibrations: 6 Gn conforming to IEC 60068-2-6<br>Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7  |
| <b>Dielectric Strength</b>                   | 1.89 kV at 50 Hz conforming to IEC 60947-1   |
| <b>Standards</b>                             | 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 |
| <b>Product Certifications</b>                | 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

|                                     |           |
|-------------------------------------|-----------|
| <b>Unit Type Of Package 1</b>       | PCE       |
| <b>Number Of Units In Package 1</b> | 1         |
| <b>Package 1 Height</b>             | 8.800 cm  |
| <b>Package 1 Width</b>              | 7.700 cm  |
| <b>Package 1 Length</b>             | 4.900 cm  |
| <b>Package 1 Weight</b>             | 138.000 g |
| <b>Unit Type Of Package 2</b>       | S02       |

|                                     |           |
|-------------------------------------|-----------|
| <b>Number Of Units In Package 2</b> | 24        |
| <b>Package 2 Height</b>             | 15.000 cm |
| <b>Package 2 Width</b>              | 30.000 cm |
| <b>Package 2 Length</b>             | 40.000 cm |
| <b>Package 2 Weight</b>             | 3.653 kg  |
| <b>Unit Type Of Package 3</b>       | P06       |
| <b>Number Of Units In Package 3</b> | 384       |
| <b>Package 3 Height</b>             | 75.000 cm |
| <b>Package 3 Width</b>              | 60.000 cm |
| <b>Package 3 Length</b>             | 80.000 cm |
| <b>Package 3 Weight</b>             | 72.827 kg |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 12 months |
|-----------------|-----------|

## Sustainability

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information

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 [End of Life Information](#)