

# Product datasheet

Specifications



## TeSys LRD thermal overload relays - 5.5...8 A - class 10A

LRD126

### 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               | LC1D12<br>LC1D18<br>LC1D32<br>LC1D38<br>LC1D25<br>LC1D09                                                                            |
| Network type                        | DC<br>AC                                                                                                                            |
| Thermal overload class              | Class 10A conforming to IEC 60947-4-1                                                                                               |
| Thermal protection adjustment range | 5.5...8 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                         | 3 A at 120 V AC-15 for signalling circuit<br>0.22 A at 125 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                                          |

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

|                          |                                                                                                                                                                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature compensation | -20...60 °C                                                                                                                                                                                                                                                                                                      |
| Connection pitch         | 14.5 mm                                                                                                                                                                                                                                                                                                          |
| 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: lugs-ring terminals |
| Tightening torque        | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 2.3 N.m - on lugs-ring terminals M4                                                                                                                                                                                                        |
| 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             | 8.8 cm  |
| Package 1 Width              | 7.7 cm  |
| Package 1 Length             | 4.9 cm  |
| Package 1 Weight             | 150.0 g |
| Unit Type of Package 2       | S02     |
| Number of Units in Package 2 | 24      |

|                  |          |
|------------------|----------|
| Package 2 Height | 15 cm    |
| Package 2 Width  | 30 cm    |
| Package 2 Length | 40 cm    |
| Package 2 Weight | 4.002 kg |

## Contractual warranty

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

Sustainability



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Transparency   RoHS/REACH

## Well-being performance

✓

Reach Free Of Svhc

✓

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>                                                                                     |

Image of product / Alternate images

Alternative

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