

# Product datasheet

Specifications



## TeSys LRD thermal overload relays - 95...120 A - class 10A

Local distributor code:  
381829612

LRD33676

EAN Code: 3389110522167

### Main

|                                     |                                                                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Range                               | TeSys                                                                                                                               |
| 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               | LC1D150<br>LC1D115                                                                                                                  |
| Network Type                        | AC<br>DC                                                                                                                            |
| Thermal Overload Class              | Class 10A conforming to IEC 60947-4-1                                                                                               |
| Thermal Protection Adjustment Range | 95...120 A                                                                                                                          |
| [Ui] Rated Insulation Voltage       | Power circuit: 600 V conforming to CSA<br>Power circuit: 600 V conforming to UL<br>Power circuit: 750 V conforming to IEC 60947-4-1 |

### Complementary

|                                             |                                                                                              |
|---------------------------------------------|----------------------------------------------------------------------------------------------|
| Network Frequency                           | 0...400 Hz                                                                                   |
| Mounting Support                            | Plate<br>Rail                                                                                |
| 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                         | 0.72 A at 500 V AC-15 for signalling circuit<br>0.06 A at 440 V DC-13 for signalling circuit |
| [Ue] Rated Operational Voltage              | 1000 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 | Power circuit: screw clamp terminals 1 cable(s) 4...35 mm² flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 4...35 mm² flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 4...35 mm² solid without cable end<br>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 |
| Tightening Torque       | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 9 N.m - on screw clamp terminals                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Height                  | 123 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Net Weight              | 1 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                   | 2.2 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>ATEX INERIS<br>UKCA                                                                                                                |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type Of Package 1       | PCE       |
| Number Of Units In Package 1 | 1         |
| Package 1 Height             | 11.000 cm |
| Package 1 Width              | 14.000 cm |
| Package 1 Length             | 20.500 cm |
| Package 1 Weight             | 1.017 kg  |
| Unit Type Of Package 2       | S02       |
| Number Of Units In Package 2 | 3         |
| Package 2 Height             | 15 cm     |
| Package 2 Width              | 30 cm     |
| Package 2 Length             | 40 cm     |
| Package 2 Weight             | 3.295 kg  |
| Unit Type Of Package 3       | P06       |

|                              |           |
|------------------------------|-----------|
| Number Of Units In Package 3 | 48        |
| Package 3 Height             | 75.000 cm |
| Package 3 Width              | 80.000 cm |
| Package 3 Length             | 60.000 cm |
| Package 3 Weight             | 60.720 kg |

## Contractual warranty

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

Sustainability



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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>                                                                     |