



### Main

|                                     |   |
|-------------------------------------|---|
| Range                               | TeSys   |
| Product name                        | TeSys LRD   |
| Product or component type           | Differential thermal overload relay   |
| Device short name                   | LRD   |
| Relay application                   | Motor protection  |
| Product compatibility               | LC1D38<br>LC1D09<br>LC1D18<br>LC1D12<br>LC1D32<br>LC1D25  |
| Network type                        | AC<br>DC  |
| 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 I <sub>r</sub> conforming to IEC 60947-4-1   |
| Auxiliary contact composition                            | 1 NO + 1 NC  |
| [I <sub>th</sub> ] 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  |
| [U <sub>e</sub> ] 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   |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV   |
| Phase failure sensitivity                                | Tripping current 130 % of I <sub>r</sub> on two phase, the last one at 0   |
| Control type   | Red push-button: stop<br>Blue push-button: reset   |
| Temperature compensation                                 | -20...60 °C  |
| Connections - terminals                                  | Control circuit: spring terminals 1 cable(s) 1...2.5 mm <sup>2</sup> solid without cable end<br>Control circuit: spring terminals 1 cable(s) 1...2.5 mm <sup>2</sup> flexible without cable end<br>Power circuit: spring terminals 1 cable(s) 1.5...4 mm <sup>2</sup> flexible without cable end<br>Power circuit: spring terminals 1 cable(s) 1.5...4 mm <sup>2</sup> flexible with cable end |
| Height   | 93 mm  |
| Width  | 45 mm  |
| Depth  | 72 mm  |
| Net weight   | 0.14 kg  |







## Environment

|                                       |  |
|---------------------------------------|--|
| Protective treatment                  | TH conforming to IEC 60068   |
| 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  |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 189 g    |
| Package 1 Height             | 5.4 cm   |
| Package 1 width              | 7.8 cm   |
| Package 1 Length             | 10 cm    |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 23       |
| Package 2 Weight             | 4.714 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 30 cm    |
| Package 2 Length             | 40 cm    |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes   |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile        |  <a href="#">End Of Life Information</a>       |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins       |

## Contractual warranty

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