



### 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               | LC1D12<br>LC1D09<br>LC1D25<br>LC1D38<br>LC1D32<br>LC1D18  |
| Network type                        | AC<br>DC  |
| Thermal protection adjustment range | 2.5...4 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                                  |
| [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   |
| [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: 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 |
| Tightening torque        | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 1.7 N.m - on screw clamp terminals  |
| Width                    | 45 mm   |
| Depth                    | 70 mm   |
| Net weight               | 0.124 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                   | 6 kV at 50 Hz conforming to IEC 60255-5   |
| Standards                             | UL 508<br>EN 60947-5-1<br>EN 60947-4-1<br>IEC 60947-4-1<br>ATEX D 94/9/CE<br>IEC 60947-5-1<br>CSA C22.2 No 14 |
| Product certifications                | BV<br>RINA<br>LROS (Lloyds register of shipping)<br>CCC<br>CSA<br>ATEX INERIS<br>GL<br>UL<br>GOST<br>DNV      |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant<br><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><br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |

## Contractual warranty

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