



### 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               | LC1D18<br>LC1D09<br>LC1D12<br>LC1D38<br>LC1D25<br>LC1D32   |
| Network type                        | DC<br>AC   |
| Overload tripping class             | Class 20 conforming to IEC 60947-4-1   |
| Thermal protection adjustment range | 1.6...2.5 A  |
| [Ui] rated insulation voltage       | 600 V power circuit conforming to CSA<br>600 V power circuit conforming to UL<br>690 V power circuit 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   |
| Associated fuse rating                                   | 4 A aM  |

|  |   |
|--|---|
|  | 6 A gG<br>10 A BS88   |
| [Uimp] 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 for reset mode   |
| Temperature compensation               | -20...60 °C   |
| Connections - terminals                | Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit : screw clamp terminals 1 cable(s) 1.5...10 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit : screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : screw clamp terminals 1 cable(s) 1...6 mm <sup>2</sup> - cable stiffness: 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                                  | 76.1 mm   |
| Product weight                         | 0.144 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   |
| Fire resistance                       | 850 °C conforming to IEC 60695-2-1  |
| Mechanical robustness                 | Vibrations 3 Gn IEC 60068-2-6<br>Shocks 15 Gn for 11 ms IEC 60068-2-7   |
| Dielectric strength                   | 6 kV at 50 Hz conforming to IEC 60255-5   |
| Standards                             | CSA C22.2 No 14<br>EN 60947-5-1<br>EN 60947-4-1<br>ATEX D 94/9/CE<br>UL 508<br>IEC 60947-4-1<br>IEC 60947-5-1 |
| Product certifications                | UL<br>CSA<br>EAC<br>ATEX INERIS<br>ABS  |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 1338 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available   |
| Product end of life instructions | Need no specific recycling operations   |