



### 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               | LC1D40A<br>LC1D50A<br>LC1D65A  |
| Network type                        | AC<br>DC   |
| Overload tripping class             | Class 20 conforming to IEC 60947-4-1   |
| Thermal protection adjustment range | 9...13 A   |
| [Ui] rated insulation voltage       | 690 V power circuit conforming to IEC 60947-4-1<br>600 V power circuit conforming to UL<br>600 V power circuit conforming to CSA |

### Complementary

|  |   |
|--|---|
| Network frequency  | 0...400 Hz  |
| Mounting support   | Under contactor<br>Rail with specific accessories<br>Plate with specific accessories  |
| 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                                      | 0.22 A at 125 V DC-13 for signalling circuit<br>3 A at 120 V AC-15 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   | Blue push-button for reset mode<br>Red push-button stop   |
| Temperature compensation                                 | -20...60 °C   |
| Connections - terminals                                  | Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 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: solid - 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: flexible - without cable end |
| Tightening torque  | Power circuit : 5 N.m - on EverLink BTR screw connectors<br>Control circuit : 1.7 N.m - on screw clamp terminals  |
| Height   | 70 mm   |
| Width  | 55 mm   |
| Depth  | 123 mm  |
| Product weight   | 0.375 kg  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | ATEX D 94/9/CE<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14 |
| Product certifications                | ABS<br>ATEX INERIS<br>CSA<br>UL<br>EAC  |
| 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  |
| Flame retardance                      | V1 conforming to UL 94  |
| Mechanical robustness                 | Vibrations 4 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   |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 0501 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations   |