



### Main

|                                     |  |
|-------------------------------------|--|
| Range                               | TeSys  |
| Product name                        | TeSys LRD  |
| Device short name                   | LR9D   |
| Product or component type           | Electronic thermal overload relay  |
| Relay application                   | Motor protection   |
| Product compatibility               | LC1D12<br>LC1D32<br>LC1D38<br>LC1D09<br>LC1D25<br>LC1D18                               |
| Thermal overload class              | Class 5...30   |
| Thermal protection adjustment range | 1.6...8 A  |
| Maximum power consumption in W      | 300 mW   |
| Mounting support                    | Under contactor<br>Plate, with specific accessories<br>Rail, with specific accessories |

### Complementary

|   |   |
|---|---|
| [Ue] rated operational voltage              | 690 V for power circuit<br>660 V for signalling circuit   |
| [Ui] rated insulation voltage               | Power circuit: 1000 V<br>Signalling circuit: 690 V  |
| Tripping threshold                          | 1.25 In conforming to IEC 60947-4-1   |
| Control type                                | Red push-button: stop and manual reset<br>White 2 microswitches: adjustable trip class<br>Red knob: automatic reset<br>White dial: full-load current adjustment |
| Time range                                  | 1.5...4 min - automatic reset time  |
| [Ith] conventional free air thermal current | 5 A for signalling circuit  |

|  |   |
|--|---|
| Associated fuse rating                 | 5 A gG for signalling circuit<br>5 A BS for signalling circuit  |
| [Uimp] rated impulse withstand voltage | 6 kV  |
| Phase failure sensitivity              | Phase difference > 40% 3 s conforming to IEC 60947-4-1  |
| Electromagnetic compatibility          | Surge withstand: 2 kV common mode conforming to IEC 61000-4-5<br>Resistance to electrostatic discharge: 8 kV conforming to IEC 61000-4-2<br>Immunity to radiated radio-electrical interference: 10 V/m conforming to IEC 61000-4-3<br>Immunity to fast transients: 2 kV conforming to IEC 61000-4-4 |
| Connections - terminals                | Control circuit: screw clamp terminals 1 cable 2.5 mm <sup>2</sup> - cable stiffness: solid or flexible - without cable end<br>Power circuit: screw clamp terminals 1 cable 16 mm <sup>2</sup> - cable stiffness: solid or flexible - without cable end   |
| Tightening torque                      | Control circuit: 0.8 N.m on screw clamp terminals<br>Power circuit: 3.1 N.m on screw clamp terminals  |
| Height                                 | 72.5 mm   |
| Width                                  | 45 mm   |
| Depth                                  | 79.9 mm   |
| Product weight                         | 0.18 kg   |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | UL 60947-4-1<br>IEC 60947-4-1<br>GB 14048.4<br>CSA C22.2  |
| Product certifications                | TÜV<br>CSA<br>CULus<br>CCC  |
| IP degree of protection               | IP20 front face conforming to IEC 60529<br>IP20 front face conforming to VDE 0106                           |
| Ambient air temperature for operation | -25...70 °C conforming to IEC 60255-8   |
| Ambient air temperature for storage   | -55...80 °C   |
| Operating altitude                    | 2000 m without derating   |
| Mechanical robustness                 | Vibrations 10...150 Hz: 6 Gn conforming to IEC 60068-2-6<br>Shocks 11 ms: 15 gn conforming to IEC 60068-2-7 |
| Dielectric strength                   | 6 kV 50 Hz conforming to IEC 60255-5  |

## 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>  |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</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>   |
| 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 |
|----------|-----------|