

# LRD06

thermal overload relay for motor TeSys - 1...1.7 A - class 10A



## Main

|                                     |   |
|-------------------------------------|---|
| Range of product                    | TeSys D   |
| Device short name                   | LRD   |
| Product or component type           | Differential thermal overload relay   |
| Relay application                   | Motor protection  |
| Product compatibility               | GV2L03<br>GV2LE03<br>LC1D09...LC1D38  |
| Network type                        | AC  |
| Overload tripping class             | Class 10A conforming to IEC 60947-4-1   |
| Thermal protection adjustment range | 1...1.6 A   |
| Protection type                     | AM fuses 2 A - for power circuit<br>BS fuse 5 A - for control circuit<br>BS88 fuse 5 A - for power circuit<br>GB2 circuit breaker 5 A - for control circuit<br>GG fuse 4 A - for power circuit<br>GG fuse 5 A - for control circuit   |
| [Ui] rated insulation voltage       | 1000 V power circuit conforming to IEC 60947-4-1<br>600 V power circuit conforming to CSA<br>600 V power circuit conforming to UL   |
| Connections - terminals             | Screw clamp terminals control circuit: 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Screw clamp terminals control circuit: 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Screw clamp terminals control circuit: 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Screw clamp terminals control circuit: 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Screw clamp terminals control circuit: 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Screw clamp terminals control circuit: 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Screw clamp terminals power circuit: 1 cable 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Screw clamp terminals power circuit: 1 cable 1...6 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Screw clamp terminals power circuit: 1 cable 1.5...10 mm <sup>2</sup> - cable stiffness: flexible - without cable end |
| Quantity per set                    | Set of 10   |

## Complementary

|  |  |
|--|--|
| Network frequency  | <= 400 Hz  |
| Mounting support   | Under contactor  |
| Tripping threshold                                       | 1.14 +/- 0.06 I <sub>r</sub> conforming to IEC 60947-4-1   |
| Surge withstand  | 6 kV conforming to IEC 60801-5   |
| [I <sub>th</sub> ] conventional free air thermal current | 5 A for control circuit  |
| [U <sub>e</sub> ] rated operational voltage              | 1000 V AC 50/60 Hz for power circuit conforming to IEC 60947-4-1   |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV   |
| Phase failure sensitivity                                | Tripping current I 30 % of I <sub>r</sub> on one phase, the others at I <sub>r</sub> conforming to IEC 60947-4-1 |
| Reset  | Automatic reset<br>Manual reset  |
| Temperature compensation                                 | -20...60 °C  |
| Tightening torque  | 1.7 N.m control circuit: - on screw clamp terminals<br>1.7 N.m power circuit: - on screw clamp terminals         |

|                |          |
|----------------|----------|
| Height         | 80 mm    |
| Width          | 45 mm    |
| Depth          | 66 mm    |
| Product weight | 0.124 kg |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | CSA C22-2 No 14<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508                       |
| Product certifications                | ATEX INERIS<br>BV<br>CCC<br>CSA<br>GOST<br>RINA<br>UL   |
| Protective treatment                  | TH conforming to IEC 60068  |
| IP degree of protection               | IP2x conforming to VDE 0106   |
| Ambient air temperature for operation | -20...60 °C without derating conforming to IEC 60947-4-1<br>-40...70 °C with 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  |
| Shock resistance                      | 15 gn 11 ms conforming to IEC 60068-2-7   |
| Vibration resistance                  | 6 gn conforming to IEC 60068-2-6  |
| Dielectric strength                   | 6 kV at 50 Hz conforming to IEC 60255-5   |