



### Main

|                                     |   |
|-------------------------------------|---|
| Range                               | TeSys   |
| Product name                        | TeSys LRD   |
| Product or component type           | Non differential thermal overload relay   |
| Device short name                   | LR3D  |
| Relay application                   | Motor protection  |
| Product compatibility               | LC1D80<br>LC1D95  |
| Network type                        | AC<br>DC  |
| Overload tripping class             | Class 20 conforming to IEC 60947-4-1  |
| Thermal protection adjustment range | 37...50 A   |
| [Ui] rated insulation voltage       | 600 V power circuit conforming to UL<br>600 V power circuit conforming to CSA<br>1000 V power circuit conforming to IEC 60947-4-1 |

### 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  |
| [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                                  | 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<br>Power circuit : screw clamp terminals 1 cable(s) 4...35 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit : screw clamp terminals 1 cable(s) 4...35 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : screw clamp terminals 1 cable(s) 4...35 mm <sup>2</sup> - cable stiffness: flexible - without cable end |
| Tightening torque  | Power circuit : 9 N.m - on screw clamp terminals<br>Control circuit : 1.7 N.m - on screw clamp terminals  |
| Width  | 75 mm   |
| Depth  | 121 mm  |
| Product weight   | 0.535 kg  |

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## 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                | ATEX INERIS<br>BV<br>CCC<br>CSA<br>DNV<br>GL<br>GOST<br>RINA<br>UL<br>LROS                                    |
| 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                 | Shocks 15 Gn for 11 ms IEC 60068-2-7<br>Vibrations 6 Gn IEC 60068-2-6   |
| Dielectric strength                   | 6 kV at 50 Hz conforming to IEC 60255-5   |