



### Main

|                                     |  |
|-------------------------------------|--|
| Range                               | TeSys  |
| Product name                        | TeSys LRD<br>TeSys Deca  |
| Product or component type           | Differential thermal overload relay  |
| Device short name                   | LRD  |
| Relay application                   | Motor protection   |
| Product compatibility               | LC1D80<br>LC1D95   |
| Network type                        | DC<br>AC   |
| Thermal overload class              | Class 10A conforming to IEC 60947-4-1  |
| Thermal protection adjustment range | 63...80 A  |
| [Ui] rated insulation voltage       | Power circuit: 1000 V conforming to IEC 60947-4-1<br>Power circuit: 600 V conforming to CSA<br>Power circuit: 600 V conforming to UL |

### 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  |
| Auxiliary contact composition                            | 1 NO + 1 NC   |
| [I <sub>th</sub> ] conventional free air thermal current | 5 A for signalling circuit  |
| Permissible current                                      | 0.72 A at 500 V AC-15 for signalling circuit<br>0.06 A at 440 V DC-13 for signalling circuit  |
| [U <sub>e</sub> ] rated operational voltage              | 1000 V AC 0...400 Hz for power circuit conforming to IEC 60947-4-1  |
| Associated fuse rating                                   | 4 A gG for signalling circuit<br>4 A BS for signalling circuit  |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV conforming to IEC 60947-1  |
| 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: reset  |
| Temperature compensation                                 | -20...60 °C   |
| Connections - terminals                                  | Power circuit: screw clamp terminals 1 cable(s) 4...35 mm <sup>2</sup> flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 4...35 mm <sup>2</sup> flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 4...35 mm <sup>2</sup> solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> solid without cable end |
| Tightening torque  | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 9 N.m - on screw clamp terminals  |
| Height   | 81 mm   |
| Width  | 70 mm   |
| Depth  | 115 mm  |
| Product weight   | 0.51 kg   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.






## Environment

|                                       |  |
|---------------------------------------|--|
| Climatic withstand                    | Conforming to IACS E10   |
| 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  |
| Flame retardance                      | V1 conforming to UL 94   |
| Mechanical robustness                 | Vibrations: 6 Gn conforming to IEC 60068-2-6<br>Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7  |
| Dielectric strength                   | 2.2 kV at 50 Hz conforming to IEC 60947-1  |
| Standards                             | EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>UL 60947-4-1<br>UL 60947-5-1<br>CSA C22.2 No 60947-4-1<br>CSA C22.2 No 60947-5-1<br>GB/T 14048.4<br>GB/T 14048.5<br>EN 50495 |
| Product certifications                | IEC<br>UL<br>CSA<br>CCC<br>EAC<br>ATEX INERIS<br>UKCA  |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 8.0 cm    |
| Package 1 Width              | 7.6 cm    |
| Package 1 Length             | 12.0 cm   |
| Package 1 Weight             | 512.0 g   |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 12        |
| Package 2 Height             | 15.0 cm   |
| Package 2 Width              | 30.0 cm   |
| Package 2 Length             | 40.0 cm   |
| Package 2 Weight             | 6.49 kg   |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 192       |
| Package 3 Height             | 77.0 cm   |
| Package 3 Width              | 80.0 cm   |
| Package 3 Length             | 60.0 cm   |
| Package 3 Weight             | 112.34 kg |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |

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|---------------------------|---|
| Circularity Profile       | <a href="#">End Of Life Information</a>   |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

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### Contractual warranty

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| Warranty | 18 months |
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