



### Main

|                                     |  |
|-------------------------------------|--|
| Range                               | TeSys  |
| Product name                        | TeSys LRD  |
| Product or component type           | Differential thermal overload relay  |
| Device short name                   | LR2D   |
| Relay application                   | Motor protection   |
| Product compatibility               | LC1D80<br>LC1D95   |
| Network type                        | DC<br>AC   |
| Thermal overload class              | Class 20 IEC 60947-4-1   |
| Thermal protection adjustment range | 37...50 A  |
| [Ui] rated insulation voltage       | Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Power circuit 690 V IEC 60947-4-1 |

### 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 Ir IEC 60947-4-1  |
| Auxiliary contact composition               | 1 NO + 1 NC   |
| [Ith] conventional free air thermal current | 5 A signalling circuit  |
| Permissible current                         | 0.72 A 500 V AC-15 signalling circuit<br>0.06 A 440 V DC-13 signalling circuit  |
| [Ue] rated operational voltage              | 1000 V AC 0...400 Hz power circuit IEC 60947-4-1  |
| Associated fuse rating                      | 4 A gG signalling circuit<br>4 A BS signalling circuit  |
| [Uimp] rated impulse withstand voltage      | 6 kV  |
| Phase failure sensitivity                   | Tripping current 130 % of Ir on two phase, the last one at 0  |
| Control type                                | Red push-button stop<br>Blue push-button reset  |
| Temperature compensation                    | -4...140 °F (-20...60 °C)   |
| Connections - terminals                     | Power circuit screw clamp terminals 1 0.01...0.05 in <sup>2</sup> (4...35 mm <sup>2</sup> ) flexible without cable end<br>Power circuit screw clamp terminals 1 0.01...0.05 in <sup>2</sup> (4...35 mm <sup>2</sup> ) flexible with cable end<br>Power circuit screw clamp terminals 1 0.01...0.05 in <sup>2</sup> (4...35 mm <sup>2</sup> ) solid without cable end<br>Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible without cable end<br>Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible with cable end<br>Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) solid without cable end |
| Tightening torque                           | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals<br>Power circuit 79.66 lbf.in (9 N.m) screw clamp terminals  |
| Height                                      | 3.94 in (100 mm)  |
| Width                                       | 2.95 in (75 mm)   |
| Depth                                       | 4.76 in (121 mm)  |
| Net Weight                                  | 1.18 lb(US) (0.535 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

|                                       |  |
|---------------------------------------|--|
| Protective treatment                  | TH conforming to IEC 60068   |
| IP degree of protection               | IP20 conforming to IEC 60529   |
| Ambient air temperature for operation | -4...140 °F (-20...60 °C) without derating IEC 60947-4-1   |
| Ambient air temperature for storage   | -76...158 °F (-60...70 °C)   |
| Flame retardance                      | V1 conforming to UL 94   |
| Mechanical robustness                 | Vibrations6 Gn IEC 60068-2-6<br>Shocks15 Gn for 11 ms IEC 60068-2-7  |
| Dielectric strength                   | 2.2 kV 50 Hz 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 |
| Product certifications                | IEC<br>UL<br>CSA<br>EAC<br>BV<br>DNV-GL<br>LROS (Lloyds register of shipping)  |

## Ordering and shipping details

|                       |  |
|-----------------------|--|
| Category              | 22347 - CONTACTOR,D-LINE,OVERLOADS-NEW |
| Discount Schedule     | I12                                    |
| GTIN                  | 00785901258490                         |
| Nbr. of units in pkg. | 1                                      |
| Package weight(Lbs)   | 1.16 lb(US) (0.53 kg)                  |
| Returnability         | Yes                                    |
| Country of origin     | FR                                     |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 3.07 in (7.8 cm)        |
| Package 1 width              | 3.35 in (8.5 cm)        |
| Package 1 Length             | 4.65 in (11.8 cm)       |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 12                      |
| Package 2 Weight             | 14.58 lb(US) (6.615 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| 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> |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant <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>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |

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|                     |  |
|---------------------|--|
| 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. |

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**Contractual warranty**

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| Warranty | 18 months |
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