



### Main

|                                     |   |
|-------------------------------------|---|
| Range                               | TeSys   |
| Product name                        | TeSys LRD   |
| Product or component type           | Electronic thermal overload relay   |
| Device short name                   | LR9D  |
| Relay application                   | Motor protection  |
| Product compatibility               | NSX circuit breaker<br>LC1D115<br>LC1D150   |
| Network type                        | AC  |
| Thermal overload class              | Class 10/20 IEC 60947-4-1   |
| Signalling function                 | Alarm   |
| Thermal protection adjustment range | 60...100 A  |
| [Ui] rated insulation voltage       | Power circuit 1000 V IEC 60947-4-1<br>Power circuit 600 V CSA<br>Power circuit 600 V UL |

### Complementary

|   |   |
|---|---|
| Network frequency                           | 50...60 Hz  |
| [Us] rated supply voltage                   | 24 V DC   |
| Supply voltage limits                       | 17...32 V   |
| Mounting support                            | Under contactor<br>Rail   |
| Tripping threshold                          | 1.05 +/- 0.06 In alarm IEC 60947-4-1<br>1.12 +/- 0.06 In de-energisation IEC 60947-4-1  |
| Auxiliary contact composition               | 1 NO + 1 NC   |
| [Ith] conventional free air thermal current | 5 A for signalling circuit  |
| [Ue] rated operational voltage              | 690 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 IEC 60947-1  |
| Phase failure sensitivity                   | Tripping in 4 s +/- 20 % IEC 60947-4-1  |
| Control type                                | Red push-button stop<br>Blue push-button reset  |
| Temperature compensation                    | -4...140 °F (-20...60 °C)   |
| Switching capacity in mA                    | 0...150 mA  |
| Maximum voltage drop                        | <2.5 V closed state   |
| Connections - terminals                     | Power circuit bars<br>Control circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.5...1.5 mm <sup>2</sup> ) flexible without cable end<br>Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (0.5...1.5 mm <sup>2</sup> ) flexible without cable end<br>Alarm circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.5...1.5 mm <sup>2</sup> ) flexible without cable end |
| Tightening torque                           | Alarm circuit 3.98 lbf.in (0.45 N.m) screw clamp terminals<br>Power circuit 159.31 lbf.in (18 N.m) bars M8<br>Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals  |
| Height                                      | 4.65 in (118 mm)  |
| Maximum Width                               | 4.53 in (115 mm)  |
| Depth                                       | 4.92 in (125 mm)  |
| Net Weight                                  | 1.98 lb(US) (0.9 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 | -20...60 °C without derating conforming to IEC 60947-4-1   |
| Ambient air temperature for storage   | -76...158 °F (-60...70 °C)   |
| Operating altitude                    | <= 6561.68 ft (2000 m) without derating  |
| Mechanical robustness                 | Vibrations2 Gn, 5...300 Hz IEC 60068-2-6<br>Shocks13 Gn for 11 ms IEC 60068-2-7  |
| Dielectric strength                   | 1.89 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<br>GB/T 14048.4<br>GB/T 14048.5 |
| Product certifications                | UL<br>CSA<br>CCC   |

## Ordering and shipping details

|                       |  |
|-----------------------|--|
| Category              | 22347 - CONTACTOR,D-LINE,OVERLOADS-NEW |
| Discount Schedule     | I12                                    |
| GTIN                  | 00785901806820                         |
| Nbr. of units in pkg. | 1                                      |
| Package weight(Lbs)   | 1.99 lb(US) (0.90 kg)                  |
| Returnability         | No                                     |
| Country of origin     | FR                                     |

## Packing Units

|                        |                   |
|------------------------|-------------------|
| Unit Type of Package 1 | PCE               |
| Package 1 Height       | 5.91 in (15 cm)   |
| Package 1 width        | 6.10 in (15.5 cm) |
| Package 1 Length       | 5.12 in (13 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 Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a>   |
| 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>   |
| 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.  |
| PVC free                   | Yes   |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|