# Product data sheet

Specifications

Green Premium™

## Overload relay, TeSys LRD, motor protection, 22A to 110A, 3 phase, electronic thermal

LR9D110S

Discontinued on: Jan 23, 2021

Discontinued

## Main

| | |
|---|---|
| **Range** | TeSys |
| **Product Name** | TeSys LRD |
| **Device Short Name** | LR9D |
| **Product Or Component Type** | Electronic thermal overload relay |
| **Relay Application** | Motor protection |
| **Product Compatibility** | LC1D50A<br>LC1D38<br>LC1D25<br>LC1D40A<br>LC1D80<br>LC1D65A<br>LC1D115<br>LC1D95<br>LC1D32 |
| **Thermal Overload Class** | Class 5…30 |
| **Thermal Protection Adjustment Range** | 22…110 A |
| **Power Consumption In W** | 300 mW |
| **Mounting Support** | Plate<br>Rail |

## Complementary

| | |
|---|---|
| **[Ue] Rated Operational Voltage** | 690 V power circuit<br>660 V signalling circuit |
| **[Ui] Rated Insulation Voltage** | Power circuit 1000 V<br>Signalling circuit 690 V |
| **Tripping Threshold** | 1.25 In IEC 60947-4-1 |
| **Control Type** | Red push-button stop and manual reset<br>White 2 microswitches adjustable trip class<br>Red knob automatic reset<br>White dial full-load current adjustment |
| **Time Range** | 1.5...4 min - automatic reset time |
| **[Ith] Conventional Free Air Thermal Current** | 5 A signalling circuit |
| **Associated Fuse Rating** | 5 A gG for signalling circuit<br>5 A BS for signalling circuit |
| **[Uimp] Rated Impulse Withstand Voltage** | 6 kV |
| **Phase Failure Sensitivity** | Phase difference > 40% 3 s IEC 60947-4-1 |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

| | |
|---|---|
| **Electromagnetic Compatibility** | Surge withstand 2 kV common mode IEC 61000-4-5<br>Resistance to electrostatic discharge 8 kV IEC 61000-4-2<br>Immunity to radiated radio-electrical interference 10 V/m IEC 61000-4-3<br>Immunity to fast transients 2 kV IEC 61000-4-4 |
| **Connections - Terminals** | Control circuit screw clamp terminals 1 0.00 in² (2.5 mm²) solid or flexible - without cable end<br>Power circuit screw clamp terminals 1 0.08 in² (50 mm²) solid or flexible - without cable end |
| **Tightening Torque** | Control circuit 0.8 N.m screw clamp terminals<br>Power circuit 9 N.m screw clamp terminals |
| **Height** | 4.21 in (107 mm) |
| **Width** | 2.56 in (65 mm) |
| **Depth** | 3.15 in (79.9 mm) |
| **Net Weight** | 1.32 lb(US) (0.6 kg) |

## Environment

| | |
|---|---|
| **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** | IECEE CB Scheme<br>UL<br>CSA<br>CCC |
| **Ip Degree Of Protection** | IP20 front face IEC 60529 |
| **Ambient Air Temperature For Operation** | -13…158 °F (-25…70 °C) IEC 60255-8 |
| **Ambient Air Temperature For Storage** | -67…176 °F (-55…80 °C) |
| **Operating Altitude** | 6561.68 ft (2000 m) without derating |
| **Mechanical Robustness** | Vibrations 10...150 Hz6 Gn IEC 60068-2-6<br>Shocks 11 ms15 gn IEC 60068-2-7 |
| **Dielectric Strength** | 6 kV 50 Hz IEC 60255-5 |

## Ordering and shipping details

| | |
|---|---|
| **Category** | 22348-LR9D ELECTRONIC OVERLOAD RELAY 0.1-110A |
| **Discount Schedule** | I12 |
| **Gtin** | 3606485420967 |
| **Returnability** | No |
| **Country Of Origin** | CN |

## Packing Units

| | |
|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 2.64 in (6.7 cm) |
| **Package 1 Width** | 4.76 in (12.1 cm) |
| **Package 1 Length** | 4.84 in (12.3 cm) |
| **Package 1 Weight** | 24.37 oz (690.9 g) |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

RoHS/REACh

## Well-being performance

| | |
|---|---|
| Reach Free Of Svhc | |
| Mercury Free | |
| Rohs Exemption Information | Yes |

## Certifications & Standards

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|---|---|
| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information. |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| **California Proposition 65** | WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov |