# Product datasheet

Specifications

## TeSys LRD - electronic thermal overload relay - 3P - 1.6...8 A

LR9D08

## 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** | LC1D12<br>LC1D32<br>LC1D38<br>LC1D09<br>LC1D25<br>LC1D18 |
| **Thermal Overload Class** | Class 5…30 |
| **Thermal Protection Adjustment Range** | 1.6…8 A |
| **Power Consumption In W** | 300 mW |
| **Mounting Support** | Under contactor<br>Plate, with specific accessories<br>Rail, with specific accessories |

## Complementary

| | |
|---|---|
| **[Ue] Rated Operational Voltage** | 690 V for power circuit<br>660 V for signalling circuit |
| **[Ui] Rated Insulation Voltage** | Power circuit: 1000 V<br>Signalling circuit: 690 V |
| **Tripping Threshold** | 1.25 In conforming to 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 for 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 conforming to IEC 60947-4-1 |
| **Electromagnetic Compatibility** | Surge withstand: 2 kV common mode conforming to IEC 61000-4-5<br>Resistance to electrostatic discharge: 8 kV conforming to IEC 61000-4-2<br>Immunity to radiated radio-electrical interference: 10 V/m conforming to IEC 61000-4-3<br>Immunity to fast transients: 2 kV conforming to IEC 61000-4-4 |

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

| | |
|---|---|
| **Connections - Terminals** | Control circuit: screw clamp terminals 1 cable 2.5 mm² - cable stiffness: solid or flexible - without cable end<br>Power circuit: screw clamp terminals 1 cable 16 mm² - cable stiffness: solid or flexible - without cable end |
| **Tightening Torque** | Control circuit: 0.8 N.m on screw clamp terminals<br>Power circuit: 3.1 N.m on screw clamp terminals |
| **Height** | 72.5 mm |
| **Width** | 45 mm |
| **Depth** | 79.9 mm |
| **Net Weight** | 0.18 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 conforming to IEC 60529 |
| **Ambient Air Temperature For Operation** | -25…70 °C conforming to IEC 60255-8 |
| **Ambient Air Temperature For Storage** | -55…80 °C |
| **Operating Altitude** | 2000 m without derating |
| **Mechanical Robustness** | Vibrations 10...150 Hz: 6 Gn conforming to IEC 60068-2-6<br>Shocks 11 ms: 15 gn conforming to IEC 60068-2-7 |
| **Dielectric Strength** | 6 kV 50 Hz conforming to IEC 60255-5 |

# Packing Units

| | |
|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 5.3 cm |
| **Package 1 Width** | 7.4 cm |
| **Package 1 Length** | 9.0 cm |
| **Package 1 Weight** | 220.96 g |
| **Unit Type Of Package 2** | CAR |
| **Number Of Units In Package 2** | 30 |
| **Package 2 Height** | 15.0 cm |
| **Package 2 Width** | 30.0 cm |
| **Package 2 Length** | 40.0 cm |
| **Package 2 Weight** | 6.629 kg |

## 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

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

| | |
|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant with Exemptions |
| **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 |