

Product datasheet

Specifications



TeSys LRD thermal overload relays - 4...6 A - class 10A

LRD10

Main

| | |
|-------------------------------------|---|
| Range | TeSys TeSys Deca |
| Product Name | TeSys LRD TeSys Deca |
| Product Or Component Type | Differential thermal overload relay |
| Device Short Name | LRD |
| Relay Application | Motor protection |
| Product Compatibility | LC1D09 LC1D32 LC1D38 LC1D12 LC1D18 LC1D25 |
| Network Type | DC AC |
| Thermal Overload Class | Class 10A conforming to IEC 60947-4-1 |
| Thermal Protection Adjustment Range | 4...6 A |
| [Ui] Rated Insulation Voltage | Power circuit: 600 V conforming to CSA Power circuit: 600 V conforming to UL Power circuit: 690 V conforming to IEC 60947-4-1 |

Complementary

| | |
|--|---|
| Network Frequency | 0...400 Hz |
| Mounting Support | Plate, with specific accessories Rail, with specific accessories Under contactor |
| Tripping Threshold | 1.14 +/- 0.06 I _r conforming to IEC 60947-4-1 |
| Auxiliary Contact Composition | 1 NO + 1 NC |
| [I _{th}] Conventional Free Air Thermal Current | 5 A for signalling circuit |
| Permissible Current | 3 A at 120 V AC-15 for signalling circuit 0.22 A at 125 V DC-13 for signalling circuit |
| [U _e] Rated Operational Voltage | 690 V AC 0...400 Hz for power circuit conforming to IEC 60947-4-1 |
| Associated Fuse Rating | 4 A gG for signalling circuit 4 A BS for signalling circuit |
| [U _{imp}] Rated Impulse Withstand Voltage | 6 kV |
| Phase Failure Sensitivity | Tripping current 130 % of I _r on two phase, the last one at 0 |
| Control Type | Red push-button: stop Blue push-button: reset |

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|---------------------------------|---|
| Temperature Compensation | -20...60 °C |
| Connections - Terminals | Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² solid without cable end Power circuit: screw clamp terminals 1 cable(s) 1.5...10 mm ² flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1...6 mm ² solid without cable end |
| Tightening Torque | Control circuit: 1.7 N.m - on screw clamp terminals Power circuit: 1.7 N.m - on screw clamp terminals |
| Height | 66 mm |
| Width | 45 mm |
| Depth | 70 mm |
| Net Weight | 0.124 kg |

Environment

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|--|--|
| 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 Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7 |
| Dielectric Strength | 1.89 kV at 50 Hz conforming to IEC 60947-1 |
| Standards | EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4 GB/T 14048.5 EN 50495 |
| Product Certifications | IEC UL CSA CCC EAC BV RINA DNV-GL LROS (Lloyds register of shipping) ATEX INERIS UKCA |

Packing Units

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|-------------------------------------|-----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 9.000 cm |
| Package 1 Width | 7.200 cm |
| Package 1 Length | 4.900 cm |
| Package 1 Weight | 138.000 g |
| Unit Type Of Package 2 | S02 |

| | |
|------------------------------|-----------|
| Number Of Units In Package 2 | 24 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 3.648 kg |

Contractual warranty

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|----------|-----------|
| Warranty | 18 months |
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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-CO₂ 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 >](#)



Transparency RoHS/REACH

Well-being performance

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant
[EU RoHS Declaration](#)

China Rohs Regulation [China RoHS declaration](#)
Pro-active China RoHS declaration (out of China RoHS legal scope)

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)