

Product datasheet

Specifications



Thermal overload relay, TeSys Deca, 690VAC, 0.63 to 1A, 1NO+1NC, class 20, screw clamp

LRD05L

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 | LC1D12 LC1D25 LC1D18 LC1D38 LC1D09 LC1D32 |
| Network type | DC AC |
| Thermal overload class | Class 20 conforming to IEC 60947-4-1 |
| Thermal protection adjustment range | 0.63...1 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 |

| | |
|---------------------------------|---|
| 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 | 76 mm |
| Net weight | 0.144 kg |

Environment

| | |
|--|--|
| 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 |
| Mechanical robustness | Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7 Vibrations: 3 GN conforming to IEC 60068-2-6 |
| 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 EN 50495 |
| product certifications | IEC UL CSA EAC ABS ATEX INERIS UKCA |

Packing Units

| | |
|-------------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 8.3 cm |
| Package 1 Width | 7.2 cm |
| Package 1 Length | 4.5 cm |
| Package 1 Weight | 144.0 g |
| Unit Type of Package 2 | S01 |
| Number of Units in Package 2 | 12 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 15.0 cm |
| Package 2 Length | 40.0 cm |

| | |
|------------------------------|-----------|
| Package 2 Weight | 1.728 kg |
| Unit Type of Package 3 | P12 |
| Number of Units in Package 3 | 384 |
| Package 3 Height | 100 cm |
| Package 3 Width | 125 cm |
| Package 3 Length | 55 cm |
| Package 3 Weight | 80.296 kg |

Contractual warranty

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

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 >](#)



Sustainable Packaging Transparency RoHS/REACH

Resource performance

Sustainable Packaging

Well-being performance

Reach Free Of Svhc

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)

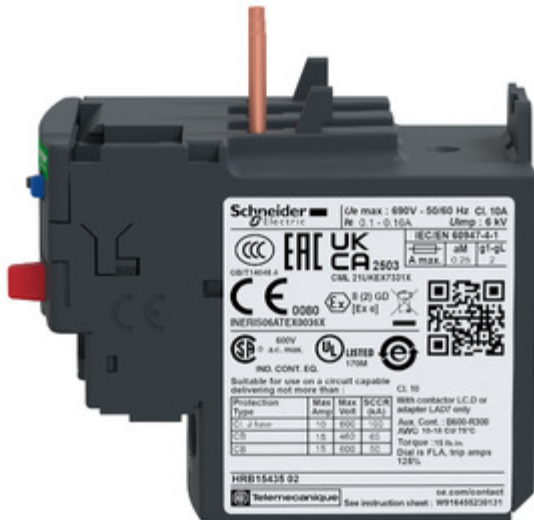
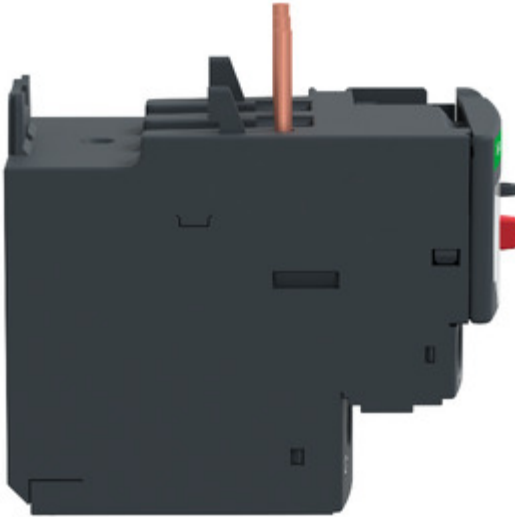
Environmental Disclosure [Product Environmental Profile](#)

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](#)

Image of product / Alternate images

Alternative



Schneider Electric | U_e max : 800V - 50/60 Hz, C1 10A
 (I_e 2.1 - 0.15A) | U_{imp} : 6 kV

CCC | **EAC** | **UK** | **CA** | **2503** | REC-EN 60947-4-1
 000118084 | CML 216KEX7301X | A max 0.2% | 0.1-gL

CE | **0080** | **8 (2) GD** | **UL** | **170M** | **LRD05L**

INFRASONATE R3038X | **600V** | **1.5** | **400** | **10**

REG. CONT. EG.

Suitable for use on a circuit capable
 delivering not more than

| Protection Type | Max Amp | Max Volt | SCCR |
|-----------------|---------|----------|------|
| C, 2 factor | 10 | 500 | 100 |
| CB | 1.5 | 400 | 60 |
| CS | 1.5 | 500 | 10 |

CI 10 | With contactor L.C.D or
 adapter LAD7 only
 App. Cont. : 8000 R300
 I_{sc} : 10-14 kA 10°C
 Torque : 13 in.lbs.
 Dist in P.L.A. trip amps
 125%

H9B15435 02 | **See instruction sheet : W91645R230131**

