# Product datasheet

Specifications

## Thermal overload relay, TeSys Deca, 690VAC, 0.4 to 0.63A, 1NO+1NC, class 10A, screw clamp

LRD04

## Main

| | |
|---|---|
| **Range** | TeSys<br>TeSys Deca |
| **product name** | TeSys LRD<br>TeSys Deca |
| **Product or component type** | Differential thermal overload relay |
| **Device short name** | LRD |
| **Relay application** | Motor protection |
| **Product compatibility** | LC1D25<br>LC1D38<br>LC1D32<br>LC1D18<br>LC1D12<br>LC1D09 |
| **Network type** | AC<br>DC |
| **Thermal overload class** | Class 10A conforming to IEC 60947-4-1 |
| **Thermal protection adjustment range** | 0.4…0.63 A |
| **[Ui] rated insulation voltage** | Power circuit: 600 V conforming to CSA<br>Power circuit: 600 V conforming to UL<br>Power circuit: 690 V conforming to IEC 60947-4-1 |

## Complementary

| | |
|---|---|
| **Network frequency** | 0...400 Hz |
| **Mounting support** | Plate, with specific accessories<br>Rail, with specific accessories<br>Under contactor |
| **Tripping threshold** | 1.14 +/- 0.06 Ir conforming to IEC 60947-4-1 |
| **Auxiliary contact composition** | 1 NO + 1 NC |
| **[Ith] conventional free air thermal current** | 5 A for signalling circuit |
| **Permissible current** | 3 A at 120 V AC-15 for signalling circuit<br>0.22 A at 125 V DC-13 for signalling circuit |
| **[Ue] 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<br>4 A BS for signalling circuit |
| **[Uimp] rated impulse withstand voltage** | 6 kV |
| **Phase failure sensitivity** | Tripping current 130 % of Ir on two phase, the last one at 0 |
| **Control type** | Red push-button: stop<br>Blue push-button: reset |

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

| | |
|---|---|
| **Temperature compensation** | -20…60 °C |
| **Connections - terminals** | Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² solid without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1.5…10 mm² flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1…4 mm² flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1…6 mm² solid without cable end |
| **Tightening torque** | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 1.7 N.m - on screw clamp terminals |
| **Height** | 66 mm |
| **Width** | 45 mm |
| **Depth** | 70 mm |
| **Product weight** | 0.124 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 |
| **Flame retardance** | V1 conforming to UL 94 |
| **Mechanical robustness** | Vibrations: 6 Gn conforming to IEC 60068-2-6<br>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<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<br>EN 50495 |
| **Product certifications** | IEC<br>UL<br>CSA<br>CCC<br>EAC<br>BV<br>RINA<br>DNV-GL<br>LROS (Lloyds register of shipping)<br>ATEX INERIS<br>UKCA |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 4.9 cm |
| **Package 1 Width** | 7.7 cm |
| **Package 1 Length** | 8.8 cm |
| **Package 1 Weight** | 137 g |
| **Unit Type of Package 2** | S02 |

| | |
|---|---|
| **Number of Units in Package 2** | 24 |
| **Package 2 Height** | 15 cm |
| **Package 2 Width** | 30 cm |
| **Package 2 Length** | 40 cm |
| **Package 2 Weight** | 3.62 kg |
| **Unit Type of Package 3** | P06 |
| **Number of Units in Package 3** | 384 |
| **Package 3 Height** | 75 cm |
| **Package 3 Width** | 60 cm |
| **Package 3 Length** | 80 cm |
| **Package 3 Weight** | 69.924 kg |

## Logistical informations

| | |
|---|---|
| **Country of origin** | FR |

## Contractual warranty

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

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 13 |
| Environmental Disclosure | Product Environmental Profile |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | No |
| EU RoHS Directive | Compliant |
| SCIP Number | 224fb0ea-2bc1-482e-b6b4-c1bdd9779659 |
| REACh Regulation | REACh Declaration |

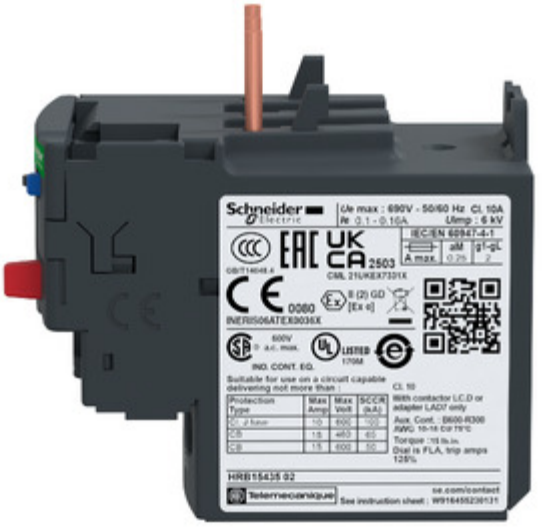
## Use Again

### Repack and remanufacture

| | |
|---|---|
| Circularity Profile | End of Life Information |
| Take-back | No |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Image of product / Alternate images

**Alternative**


Schneider Electric
Ue max : 690V - 50/60 Hz Cl. 10A
Ir 0.1 - 0.16A
Uimp : 6 kV
IEC/EN 60947-4-1
A max
aM
gI-gL
UK CA 2503
CML 21UKEX7101X
INERIS06ATEX0034X
500V a.c. max.
IND. CONT. EQ.
Suitable for use on a circuit capable delivering not more than :
Cl. 10
Protection Type
Max Amp
Max Volt
SCCR (kA)
With contactor LC.D or adapter LAD7 only
Aux. Cont. : B600-R300
AWG 16-14 C@75°C
Torque : 15 lb.in.
Dial is FLA, trip amps 125%
HRB15435 02
Telemecanique
se.com/contact
See instruction sheet : 9991455236131