# Product data sheet

Specifications




## Thermal overload relay, TeSys Deca, 9...13 A, class 10A, TQ 10

LRD16TQ

**Product availability: Non-Stock - Not normally stocked in distribution facility**

## 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** | LC1D18<br>LC1D32<br>LC1D25<br>LC1D12<br>LC1D38 |
| **Network type** | DC<br>AC |
| **Thermal overload class** | Class 10A IEC 60947-4-1 |
| **Thermal protection adjustment range** | 9…13 A |
| **[Ui] rated insulation voltage** | Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Power circuit 690 V 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 IEC 60947-4-1 |
| **Auxiliary contact composition** | 1 NO + 1 NC |
| **[Ith] conventional free air thermal current** | 5 A signalling circuit |
| **Permissible current** | 1.5 A 240 V AC-15 signalling circuit<br>0.1 A 250 V DC-13 signalling circuit |
| **[Ue] rated operational voltage** | 690 V AC 0...400 Hz power circuit 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 |
| **Temperature compensation** | -4…140 °F (-20…60 °C) |

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

| | |
|---|---|
| **Connections - terminals** | Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²) flexible without cable end<br>Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²) flexible with cable end<br>Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²) solid<br>Power circuit screw clamp terminals 1 0.002…0.02 in² (1.5…10 mm²) flexible without cable end<br>Power circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²) flexible with cable end<br>Power circuit screw clamp terminals 1 0.002…0.009 in² (1…6 mm²) solid |
| **Tightening torque** | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals<br>Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals |
| **Height** | 2.6 in (66 mm) |
| **Width** | 1.8 in (45 mm) |
| **Depth** | 2.8 in (70 mm) |
| **Product Weight** | 0.273 lb(US) (0.124 kg) |
| **Quantity per Set** | Set of 10 |

## Environment

| | |
|---|---|
| **Climatic withstand** | IACS E10 |
| **IP degree of protection** | IP20 conforming to IEC 60529 |
| **Ambient air temperature for operation** | -4…140 °F (-20…60 °C) without derating IEC 60947-4-1 |
| **Ambient Air Temperature for Storage** | -76…158 °F (-60…70 °C) |
| **Flame retardance** | V1 conforming to UL 94 |
| **Mechanical robustness** | Vibrations6 Gn IEC 60068-2-6<br>Shocks15 Gn for 11 ms IEC 60068-2-7 |
| **Dielectric strength** | 1.89 kV 50 Hz 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 |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US10I1222347 |
| **Discount Schedule** | 0I12 |
| **GTIN** | 3389110701623 |
| **Returnability** | No |
| **Country of origin** | FR |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 5.906 in (15.000 cm) |
| **Package 1 Width** | 11.811 in (30.000 cm) |
| **Package 1 Length** | 15.748 in (40.000 cm) |
| **Package weight(Lbs)** | 7.725 oz (219.000 g) |
| **Unit Type of Package 2** | BB2 |
| **Number of Units in Package 2** | 36 |
| **Package 2 Height** | 5.906 in (15.000 cm) |
| **Package 2 Width** | 11.811 in (30.000 cm) |
| **Package 2 Length** | 15.748 in (40.000 cm) |
| **Package 2 Weight** | 17.988 lb(US) (8.159 kg) |
| **Unit Type of Package 3** | S02 |
| **Number of Units in Package 3** | 36 |
| **Package 3 Height** | 5.906 in (15.000 cm) |
| **Package 3 Width** | 11.811 in (30.000 cm) |
| **Package 3 Length** | 15.748 in (40.000 cm) |
| **Package 3 Weight** | 17.988 lb(US) (8.159 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## 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

| | |
|---|---|
| Total lifecycle Carbon footprint | **13 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **1 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **12 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.2 kg CO2 eq.** |
| Environmental Disclosure | Product Environmental Profile |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **224fb0ea-2bc1-482e-b6b4-c1bdd9779659** |
| EU RoHS Directive | Compliant |
| REACh Regulation | Free of Substances of Very High Concern above the threshold |
| California proposition 65 | **WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Repair | **No** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **50** |
| Circularity Profile | End of Life Information |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.** |

Offer Marketing Illustration

**Product benefits / Features**



Offer Marketing Illustration

**Product benefits / Features**

