

# Product data sheet

## Specifications



## TeSys Deca thermal overload relays - 12...18 A - class 20

LRD318L

**Product availability: Stock - Normally stocked in distribution facility**

## Main

|  |  |
|--|--|
| <b>Range</b>                               | TeSys<br>TeSys Deca  |
| <b>Product name</b>                        | TeSys LRD<br>TeSys Deca  |
| <b>Product or Component Type</b>           | Differential thermal overload relay  |
| <b>Device short name</b>                   | LRD  |
| <b>Relay application</b>                   | Motor protection   |
| <b>Product Compatibility</b>               | LC1D50A<br>LC1D65A<br>LC1D40A  |
| <b>Network type</b>                        | DC<br>AC   |
| <b>Thermal overload class</b>              | Class 20 IEC 60947-4-1   |
| <b>Thermal protection adjustment range</b> | 12...18 A  |
| <b>[Ui] rated insulation voltage</b>       | Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Power circuit 690 V IEC 60947-4-1 |

## Complementary

|  |  |
|--|--|
| <b>Network Frequency</b>                           | 0...400 Hz   |
| <b>Mounting support</b>                            | Plate, with specific accessories<br>Rail, with specific accessories<br>Under contactor |
| <b>Tripping threshold</b>                          | 1.14 +/- 0.06 Ir IEC 60947-4-1   |
| <b>Auxiliary contact composition</b>               | 1 NO + 1 NC  |
| <b>[Ith] conventional free air thermal current</b> | 5 A signalling circuit   |
| <b>Permissible current</b>                         | 3 A 120 V AC-15 signalling circuit<br>0.22 A 125 V DC-13 signalling circuit            |
| <b>[Ue] rated operational voltage</b>              | 690 V AC 0...400 Hz power circuit IEC 60947-4-1  |
| <b>Associated fuse rating</b>                      | 4 A gG for signalling circuit<br>4 A BS for signalling circuit                         |
| <b>[Uimp] rated impulse withstand voltage</b>      | 6 kV   |
| <b>Phase failure sensitivity</b>                   | Tripping current 130 % of Ir on two phase, the last one at 0                           |
| <b>Control type</b>                                | Red push-button stop<br>Blue push-button reset   |
| <b>Temperature compensation</b>                    | -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.

|                                |  |
|--------------------------------|--|
| <b>Connections - terminals</b> | Control circuit screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible without cable end<br>Control circuit screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible with cable end<br>Control circuit screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) solid without cable end<br>Power circuit EverLink BTR screw connectors 1 0.002...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) flexible without cable end<br>Power circuit EverLink BTR screw connectors 1 0.002...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) flexible with cable end<br>Power circuit EverLink BTR screw connectors 1 0.002...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) solid without cable end |
| <b>Tightening torque</b>       | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals<br>Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors  |
| <b>Height</b>                  | 2.8 in (70 mm)   |
| <b>Width</b>                   | 2.2 in (55 mm)   |
| <b>Depth</b>                   | 4.8 in (123 mm)  |
| <b>Product Weight</b>          | 0.827 lb(US) (0.375 kg)  |

## Environment

|  |  |
|--|--|
| <b>Climatic withstand</b>                    | IACS E10   |
| <b>IP degree of protection</b>               | IP20 conforming to IEC 60529   |
| <b>Ambient air temperature for operation</b> | -4...140 °F (-20...60 °C) without derating IEC 60947-4-1   |
| <b>Ambient Air Temperature for Storage</b>   | -76...158 °F (-60...70 °C)   |
| <b>Flame retardance</b>                      | V1 conforming to UL 94   |
| <b>Mechanical robustness</b>                 | Shocks15 Gn for 11 ms IEC 60068-2-7<br>Vibrations4 gn IEC 60068-2-6  |
| <b>Dielectric strength</b>                   | 1.89 kV 50 Hz IEC 60947-1  |
| <b>Standards</b>                             | 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 |
| <b>Product Certifications</b>                | IEC<br>UL<br>CSA<br>CCC<br>EAC<br>DNV-GL<br>RMRS<br>EU-RO MR<br>LROS (Lloyds register of shipping)<br>ATEX INERIS  |

## Ordering and shipping details

|                          |               |
|--------------------------|---------------|
| <b>Category</b>          | US101222347   |
| <b>Discount Schedule</b> | 0112          |
| <b>GTIN</b>              | 3389119215534 |
| <b>Returnability</b>     | No            |
| <b>Country of origin</b> | FR            |

## Packing Units

|                              |                            |
|------------------------------|----------------------------|
| Unit Type of Package 1       | PCE                        |
| Nbr. of units in pkg.        | 1                          |
| Package 1 Height             | 2.36 in (6.000 cm)         |
| Package 1 Width              | 4.13 in (10.500 cm)        |
| Package 1 Length             | 5.51 in (14.000 cm)        |
| Package weight(Lbs)          | 14.497 oz (411.000 g)      |
| Unit Type of Package 2       | S02                        |
| Number of Units in Package 2 | 12                         |
| Package 2 Height             | 5.91 in (15.000 cm)        |
| Package 2 Width              | 11.81 in (30.000 cm)       |
| Package 2 Length             | 15.75 in (40.000 cm)       |
| Package 2 Weight             | 11.446 lb(US) (5.192 kg)   |
| Unit Type of Package 3       | P12                        |
| Number of Units in Package 3 | 192                        |
| Package 3 Height             | 17.72 in (45.000 cm)       |
| Package 3 Width              | 31.50 in (80.000 cm)       |
| Package 3 Length             | 47.24 in (120.000 cm)      |
| Package 3 Weight             | 200.780 lb(US) (91.072 kg) |

## Contractual warranty

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



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 CO<sub>2</sub> eq, Total Life cycle) 4

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Compliant

REACH Regulation [REACH Declaration](#)

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 Again

### Repack and remanufacture

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.

## Technical Illustration

### Assembly's dimensions

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