

# Product data sheet

Specifications



## TeSys Deca, thermal overload relay, 5.5 to 8 A, class 10A

LRD12

Product availability: Stock - Normally stocked in distribution facility

Price\*: 62.00 USD

### 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>LC1D25<br>LC1D32<br>LC1D12<br>LC1D09<br>LC1D38                               |
| network type                        | DC<br>AC   |
| Thermal overload class              | Class 10A IEC 60947-4-1  |
| Thermal protection adjustment range | 5.5...8 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   |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

|                                 |  |
|---------------------------------|--|
| <b>Temperature compensation</b> | -4...140 °F (-20...60 °C)  |
| <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<br>Power circuit screw clamp terminals 1 0.002...0.02 in <sup>2</sup> (1.5...10 mm <sup>2</sup> ) flexible without cable end<br>Power circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible with cable end<br>Power circuit screw clamp terminals 1 0.002...0.009 in <sup>2</sup> (1...6 mm <sup>2</sup> ) solid |
| <b>Tightening torque</b>        | 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   |
| <b>Height</b>                   | 2.6 in (66 mm)   |
| <b>Width</b>                    | 1.8 in (45 mm)   |
| <b>Depth</b>                    | 2.8 in (70 mm)   |
| <b>Net Weight</b>               | 0.273 lb(US) (0.124 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>                 | Vibrations 6 Gn IEC 60068-2-6<br>Shocks 15 Gn for 11 ms IEC 60068-2-7  |
| <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>BV<br>RINA<br>DNV-GL<br>LROS (Lloyds register of shipping)<br>ATEX INERIS<br>UKCA  |

## Ordering and shipping details

|                          |               |
|--------------------------|---------------|
| <b>Category</b>          | US10I1222347  |
| <b>Discount Schedule</b> | 0I12          |
| <b>GTIN</b>              | 3389110346800 |
| <b>Returnability</b>     | Yes           |
| <b>Country of origin</b> | FR            |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Number of Units in Package 1 | 1                        |
| Package 1 Height             | 2.0 in (5 cm)            |
| Package 1 Width              | 3.1 in (7.9 cm)          |
| Package 1 Length             | 3.5 in (9 cm)            |
| Package 1 Weight             | 5.009 oz (142 g)         |
| Unit Type of Package 2       | S02                      |
| Number of Units in Package 2 | 24                       |
| Package 2 Height             | 5.9 in (15 cm)           |
| Package 2 Width              | 11.8 in (30 cm)          |
| Package 2 Length             | 15.7 in (40 cm)          |
| Package 2 Weight             | 8.728 lb(US) (3.959 kg)  |
| Unit Type of Package 3       | P06                      |
| Number of Units in Package 3 | 384                      |
| Package 3 Height             | 31.5 in (80 cm)          |
| Package 3 Width              | 31.5 in (80 cm)          |
| Package 3 Length             | 23.6 in (60 cm)          |
| Package 3 Weight             | 153.31 lb(US) (69.54 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-CO<sub>2</sub> 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          | <a href="#">REACH Declaration</a>   |
| Eu Rohs Directive         | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| China Rohs Regulation     | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope)   |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a>   |
| Weee                      | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.  |
| Circularity Profile       | <a href="#">End of Life Information</a>   |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Dimensions Drawings

Approximate Dimensions

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