

# Product data sheet

Specifications



## TeSys Deca thermal overload relays - 0.1...0.16 A - class 10A

LRD01

**Product availability: Stock - 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               | LC1D25<br>LC1D09<br>LC1D12<br>LC1D18<br>LC1D38<br>LC1D32                               |
| Network type                        | DC<br>AC                                                                               |
| Thermal overload class              | Class 10A IEC 60947-4-1                                                                |
| Thermal protection adjustment range | 0.1...0.16 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                         | 3 A 120 V AC-15 signalling circuit<br>0.22 A 125 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.

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 | -4...140 °F (-20...60 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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 without cable end<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 without cable end |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Net Weight               | 0.273 lb(US) (0.124 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 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              | 3389110346718 |
| Returnability     | Yes           |
| Country of origin | FR            |

## Packing Units

|                              |                            |
|------------------------------|----------------------------|
| Unit Type of Package 1       | PCE                        |
| Nbr. of units in pkg.        | 1                          |
| Package 1 Height             | 1.969 in (5.000 cm)        |
| Package 1 Width              | 3.071 in (7.800 cm)        |
| Package 1 Length             | 3.543 in (9.000 cm)        |
| Package weight(Lbs)          | 4.797 oz (136.000 g)       |
| Unit Type of Package 2       | S02                        |
| Number of Units in Package 2 | 24                         |
| 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             | 7.912 lb(US) (3.589 kg)    |
| Unit Type of Package 3       | P06                        |
| Number of Units in Package 3 | 384                        |
| Package 3 Height             | 29.528 in (75.000 cm)      |
| Package 3 Width              | 23.622 in (60.000 cm)      |
| Package 3 Length             | 31.496 in (80.000 cm)      |
| Package 3 Weight             | 144.235 lb(US) (65.424 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                        |                                               |
|------------------------------------------------|-----------------------------------------------|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 13                                            |
| Environmental Disclosure                       | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances               |                                                                                                                                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                       |
| Packaging without single use plastic   | No                                                                                                                                                                                                                                                        |
| <a href="#">EU RoHS Directive</a>      | Compliant                                                                                                                                                                                                                                                 |
| SCIP Number                            | 224fb0ea-2bc1-482e-b6b4-c1bdd9779659                                                                                                                                                                                                                      |
| REACH Regulation                       | <a href="#">REACH Declaration</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> |

Use Again

| Repack and remanufacture |                                                                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                                                                                                          |
| 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

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TeSys Deca  
Thermal Overload Relays



Easy application

Selectable manual, remote or auto reset tripping options for better process management.



Simple to install

Self-powering eliminates the need for an external power supply.



Compatibility

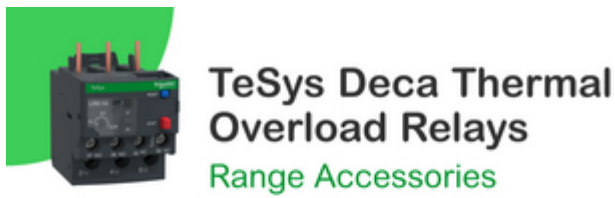
Can be combined with TeSys Deca contactors to form an extremely compact starter



Offer Marketing Illustration

Product benefits / Features

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Terminal block



Electrical remote stop



Mechanical remote control



Pre-wiring kit



Manual overload reset push-button

Image of product / Alternate images

Alternative

