

# Product datasheet

Specifications



## TeSys LRD thermal overload relays - 1.6...2.5 A - class 10A

Local distributor code:  
381816722 LRD07

EAN Code: 3389110346770

### 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>LC1D38<br>LC1D32<br>LC1D25<br>LC1D12<br>LC1D09                                                                            |
| Network type                        | DC<br>AC                                                                                                                            |
| Thermal overload class              | Class 10A conforming to IEC 60947-4-1                                                                                               |
| Thermal protection adjustment range | 1.6...2.5 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 I <sub>r</sub> conforming to IEC 60947-4-1                                  |
| Auxiliary contact composition                            | 1 NO + 1 NC                                                                               |
| [I <sub>th</sub> ] 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 |
| [U <sub>e</sub> ] 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                            |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV                                                                                      |
| Phase failure sensitivity                                | Tripping current 130 % of I <sub>r</sub> 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             | 4.900 cm  |
| Package 1 Width              | 7.700 cm  |
| Package 1 Length             | 8.800 cm  |
| Package 1 Weight             | 140.000 g |
| Unit Type of Package 2       | S02       |

|                              |           |
|------------------------------|-----------|
| Number of Units in Package 2 | 24        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 3.688 kg  |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 384       |
| Package 3 Height             | 75.000 cm |
| Package 3 Width              | 60.000 cm |
| Package 3 Length             | 80.000 cm |
| Package 3 Weight             | 68.500 kg |

## Logistical informations

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

## 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                               | <a href="#">Product Environmental Profile</a> |

## 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                      | <a href="#">Compliant</a>                                                   |
| REACH Regulation                       | <a href="#">Free of Substances of Very High Concern above the threshold</a> |

## Use Longer



### Lifetime extension

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

## Use Again



### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 50                                                                                                                                                                                                              |
| End of life manual availability | <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

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

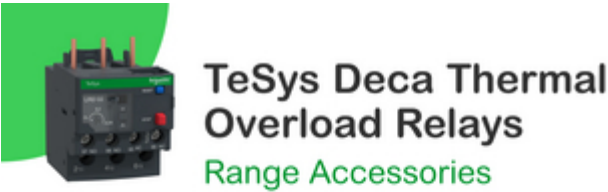
Can be combined with TeSys Deca contactors to form an extremely compact starter



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

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