

# Product data sheet

Specifications



## Thermal overload relay, TeSys Deca, 1-1.6A, 1NO+1NC, class 20, lugs ring terminal

LRD06L6

### Main

|                                     |                                                                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Range                               | TeSys                                                                                                                               |
| 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               | LC1D38<br>LC1D12<br>LC1D25<br>LC1D32<br>LC1D18<br>LC1D09                                                                            |
| Network Type                        | AC<br>DC                                                                                                                            |
| Thermal Overload Class              | Class 20 conforming to IEC 60947-4-1                                                                                                |
| Thermal Protection Adjustment Range | 1...1.6 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 Ir conforming to IEC 60947-4-1                                              |
| Auxiliary Contact Composition               | 1 NO + 1 NC                                                                               |
| [Ith] 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 |
| [Ue] 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                            |
| [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                    | -20...60 °C                                                                               |

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 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: lugs-ring terminals |
| Tightening Torque       | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 2.3 N.m - on lugs-ring terminals M4                                                                                                                                                                                                        |
| Height                  | 66 mm                                                                                                                                                                                                                                                                                                            |
| Width                   | 45 mm                                                                                                                                                                                                                                                                                                            |
| Depth                   | 76 mm                                                                                                                                                                                                                                                                                                            |
| Net Weight              | 0.144 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                                                                                                                          |
| Mechanical Robustness                 | Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7<br>Vibrations: 3 GN conforming to IEC 60068-2-6                                  |
| 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>EN 50495 |
| Product Certifications                | IEC<br>UL<br>CSA<br>EAC<br>ABS<br>ATEX INERIS<br>UKCA                                                                                |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type Of Package 1       | PCE     |
| Number Of Units In Package 1 | 1       |
| Package 1 Height             | 8.3 cm  |
| Package 1 Width              | 7.2 cm  |
| Package 1 Length             | 4.5 cm  |
| Package 1 Weight             | 144.0 g |

## Contractual warranty

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

## Sustainability

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Transparency   RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   [Yes](#)

## Certifications & Standards

|                           |                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation          | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive         | Compliant with Exemptions                                                                                                   |
| China Rohs Regulation     | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| 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: Cancer - <a href="#">www.P65Warnings.ca.gov</a>                                                                    |