

# Product data sheet

Specifications



## thermal overload relays, TeSys Deca, 110...140A, class 10A, lug clamps

LRD4369

### 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               | LC1D150                                           |
| Network type                        | DC<br>AC                                          |
| Thermal overload class              | Class 10A conforming to IEC 60947-4-1             |
| Thermal protection adjustment range | 110...140 A                                       |
| [Ui] rated insulation voltage       | Power circuit: 1000 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                         | 0.06 A at 440 V DC-13 for signalling circuit<br>0.12 A at 600 V AC-15 for signalling circuit |
| [Ue] rated operational voltage              | 1000 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 conforming to IEC 60947-1                                                               |
| 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 | Power circuit: screw clamp terminals 1 cable(s) 4...35 mm² flexible with cable end<br>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) 4...50 mm² flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 4...50 mm² solid without cable end |
| Tightening torque       | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 9 N.m - on screw clamp terminals                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Depth                   | 132 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Product weight          | 0.9 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                   | 2.2 kV at 50 Hz conforming to IEC 60947-1                                                           |
| Standards                             | EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>GB/T 14048.4<br>GB/T 14048.5<br>EN 50495                    |
| Product certifications                | IEC<br>CCC<br>EAC<br>ATEX INERIS                                                                    |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 13.800 cm |
| Package 1 Width              | 10.500 cm |
| Package 1 Length             | 15.500 cm |
| Package 1 Weight             | 833.000 g |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 10        |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 8.835 kg  |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 80        |
| Package 3 Height             | 75.000 cm |
| Package 3 Width              | 60.000 cm |

|                  |           |
|------------------|-----------|
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 77.680 kg |

## Contractual warranty

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

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