

# Product datasheet

Specifications



## TeSys LRD thermal overload relays - 23...32 A - class 10A

LRD332

### 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               | LC1D40A<br>LC1D65A<br>LC1D50A   |
| Network type                        | AC<br>DC  |
| Thermal overload class              | Class 10A conforming to IEC 60947-4-1   |
| Thermal protection adjustment range | 23...32 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                         | 0.95 A at 380 V AC-15 for signalling circuit<br>0.06 A at 440 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  |

|                          |   |
|--------------------------|---|
|                          | Blue push-button: reset   |
| 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: EverLink BTR screw connectors 1 cable(s) 1...35 mm² flexible without cable end<br>Power circuit: EverLink BTR screw connectors 1 cable(s) 1...35 mm² flexible with cable end<br>Power circuit: EverLink BTR screw connectors 1 cable(s) 1...35 mm² solid without cable end |
| Tightening torque        | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 5 N.m - on EverLink BTR screw connectors  |
| Height                   | 123 mm  |
| Width                    | 55 mm   |
| Depth                    | 123 mm  |
| Net weight               | 0.375 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                 | Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7<br>Vibrations: 4 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>GB/T 14048.4<br>GB/T 14048.5<br>EN 50495 |
| Product certifications                | IEC<br>UL<br>CSA<br>CCC<br>EAC<br>DNV-GL<br>RMRS<br>EU-RO MR<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             | 6.500 cm  |
| Package 1 Width              | 10.400 cm |
| Package 1 Length             | 13.800 cm |
| Package 1 Weight             | 393.000 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 13        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |

|                              |           |
|------------------------------|-----------|
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 5.394 kg  |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 208       |
| Package 3 Height             | 75.000 cm |
| Package 3 Width              | 60.000 cm |
| Package 3 Length             | 80.000 cm |
| Package 3 Weight             | 94.016 kg |

Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope) |
| RoHS exemption information | <a href="#">Yes</a>   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |

Contractual warranty

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

Recommended replacement(s)