# Product datasheet

Specifications



## TeSys LRD thermal overload relays - 37...50 A - class 10A

LRD3357

## 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** | LC1D95<br>LC1D80 |
| **Network type** | DC<br>AC |
| **Thermal overload class** | Class 10A conforming to IEC 60947-4-1 |
| **Thermal protection adjustment range** | 37…50 A |
| **[Ui] rated insulation voltage** | Power circuit: 1000 V conforming to IEC 60947-4-1<br>Power circuit: 600 V conforming to CSA<br>Power circuit: 600 V conforming to UL |

## 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** | 0.72 A at 500 V AC-15 for signalling circuit<br>0.06 A at 440 V DC-13 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 without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 4…35 mm² flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 4…35 mm² solid without 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 |
| **Tightening torque** | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 9 N.m - on screw clamp terminals |
| **Height** | 81 mm |
| **Width** | 70 mm |
| **Depth** | 115 mm |
| **Net weight** | 0.51 kg |

## Environment

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|---|---|
| **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>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>ATEX INERIS<br>UKCA |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 8.000 cm |
| **Package 1 Width** | 12.000 cm |
| **Package 1 Length** | 8.700 cm |
| **Package 1 Weight** | 492.000 g |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 12 |
| **Package 2 Height** | 15.000 cm |
| **Package 2 Width** | 30.000 cm |
| **Package 2 Length** | 40.000 cm |

| | |
|---|---|
| **Package 2 Weight** | 6.203 kg |
| **Unit Type of Package 3** | P06 |
| **Number of Units in Package 3** | 192 |
| **Package 3 Height** | 75.000 cm |
| **Package 3 Width** | 60.000 cm |
| **Package 3 Length** | 80.000 cm |
| **Package 3 Weight** | 110.628 kg |

## Contractual warranty

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

## Sustainability

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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency



RoHS/REACh

## Well-being performance

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|---|---|
| Reach Free Of Svhc | |
| Toxic Heavy Metal Free | |
| Mercury Free | |
| Rohs Exemption Information | Yes |

## Certifications & Standards

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>Pro-active China RoHS declaration (out of China RoHS legal scope) |
| **Environmental Disclosure** | Product Environmental Profile |
| **Circularity Profile** | End of Life Information |