

Product datasheet

Specifications



TeSys LRD thermal overload relays - 30...40 A - class 10A

LRD3355

Main

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|-------------------------------------|--|
| Range | TeSys |
| Product name | TeSys LRD TeSys Deca |
| Product or component type | Differential thermal overload relay |
| Device short name | LRD |
| Relay application | Motor protection |
| Product compatibility | LC1D80 LC1D95 |
| Network type | DC AC |
| Thermal overload class | Class 10A conforming to IEC 60947-4-1 |
| Thermal protection adjustment range | 30...40 A |
| [Ui] rated insulation voltage | Power circuit: 1000 V conforming to IEC 60947-4-1 Power circuit: 600 V conforming to CSA Power circuit: 600 V conforming to UL |

Complementary

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| Network frequency | 0...400 Hz |
| Mounting support | Plate, with specific accessories Rail, with specific accessories Under contactor |
| Tripping threshold | 1.14 +/- 0.06 I _r conforming to IEC 60947-4-1 |
| Auxiliary contact composition | 1 NO + 1 NC |
| [I _{th}] conventional free air thermal current | 5 A for signalling circuit |
| Permissible current | 0.72 A at 500 V AC-15 for signalling circuit 0.06 A at 440 V DC-13 for signalling circuit |
| [U _e] 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 4 A BS for signalling circuit |
| [U _{imp}] rated impulse withstand voltage | 6 kV conforming to IEC 60947-1 |
| Phase failure sensitivity | Tripping current 130 % of I _r on two phase, the last one at 0 |
| Control type | Red push-button: stop Blue push-button: reset |

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|---------------------------------|---|
| Temperature compensation | -20...60 °C |
| Connections - terminals | Power circuit: screw clamp terminals 1 cable(s) 4...35 mm ² flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 4...35 mm ² flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 4...35 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² solid without cable end |
| Tightening torque | Control circuit: 1.7 N.m - on screw clamp terminals 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 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 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4 GB/T 14048.5 EN 50495 |
| Product certifications | IEC UL CSA CCC EAC ATEX INERIS UKCA |

Packing Units

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|-------------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 7.800 cm |
| Package 1 Width | 12.000 cm |
| Package 1 Length | 8.600 cm |
| Package 1 Weight | 498.000 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 | 6.315 kg |
| Unit Type of Package 3 | P06 |

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|-------------------------------------|------------|
| 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 | 111.396 kg |

Offer Sustainability

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

Contractual warranty

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| Warranty | 18 months |
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Recommended replacement(s)