

Product data sheet

Specifications



thermal overload relays, TeSys Deca, 90...150A, class 10

LR9D5369

Main

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| Range | TeSys |
| Product name | TeSys LRD TeSys Deca |
| Product or component type | Electronic thermal overload relay |
| Device short name | LR9D |
| Relay application | Motor protection |
| Product compatibility | NSX circuit breaker LC1D150 LC1D115 |
| Network type | AC |
| Thermal overload class | Class 10 conforming to IEC 60947-4-1 |
| Signalling function | Alarm |
| Thermal protection adjustment range | 90...150 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 | 50...60 Hz |
| [Us] rated supply voltage | 24 V DC |
| Supply voltage limits | 17...32 V |
| Mounting support | Under contactor Rail |
| Tripping threshold | 1.05 +/- 0.06 In alarm conforming to IEC 60947-4-1 1.12 +/- 0.06 In de-energisation conforming to IEC 60947-4-1 |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Ith] conventional free air thermal current | 5 A 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 4 A BS for signalling circuit |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947-1 |
| Phase failure sensitivity | Tripping in 4 s +/- 20 % conforming to IEC 60947-4-1 |

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| Control type | Red push-button: stop Blue push-button: reset |
| Temperature compensation | -20...60 °C |
| Switching capacity in mA | 0...150 mA |
| Maximum voltage drop | <2.5 V closed state |
| Connections - terminals | Power circuit: bars Control circuit: screw clamp terminals 1 cable(s) 0.5...1.5 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 0.5...1.5 mm ² flexible without cable end Alarm circuit: screw clamp terminals 1 cable(s) 0.5...1.5 mm ² flexible without cable end |
| Tightening torque | Alarm circuit: 0.45 N.m - on screw clamp terminals Power circuit: 18 N.m - on bars M8 Control circuit: 1.2 N.m - on screw clamp terminals |
| Height | 118 mm |
| Width | 115 mm |
| Depth | 125 mm |
| Net weight | 0.885 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 |
| Operating altitude | <= 2000 m without derating |
| Mechanical robustness | Vibrations: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6 Shocks: 13 Gn for 11 ms conforming to IEC 60068-2-7 |
| Dielectric strength | 1.89 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 |
| Product certifications | UL CSA CCC UKCA |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 15.000 cm |
| Package 1 Width | 16.000 cm |
| Package 1 Length | 13.000 cm |
| Package 1 Weight | 924.000 g |
| Unit Type of Package 2 | S04 |
| Number of Units in Package 2 | 12 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 40.000 cm |
| Package 2 Length | 60.000 cm |
| Package 2 Weight | 11.880 kg |

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| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 48 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 60.000 cm |
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 56.804 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free | Yes |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |

Contractual warranty

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| Warranty | 18 months |
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Recommended replacement(s)