

Product data sheet

Specifications



Thermal overload relay, TeSys Deca, 9...13 A, class 10A, TQ 10

LRD16TQ

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 62.00 USD

Main

| | |
|-------------------------------------|--|
| Range | TeSys TeSys Deca |
| Product name | TeSys LRD TeSys Deca |
| Product or Component Type | Differential thermal overload relay |
| Device short name | LRD |
| relay application | Motor protection |
| Product Compatibility | LC1D18 LC1D32 LC1D25 LC1D12 LC1D38 |
| Network type | DC AC |
| Thermal overload class | Class 10A IEC 60947-4-1 |
| Thermal protection adjustment range | 9...13 A |
| [U] rated insulation voltage | Power circuit 600 V CSA Power circuit 600 V UL Power circuit 690 V IEC 60947-4-1 |

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 IEC 60947-4-1 |
| Auxiliary contact composition | 1 NO + 1 NC |
| [I _{th}] conventional free air thermal current | 5 A signalling circuit |
| Permissible current | 1.5 A 240 V AC-15 signalling circuit 0.1 A 250 V DC-13 signalling circuit |
| [U _e] rated operational voltage | 690 V AC 0...400 Hz power circuit 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 |
| 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 |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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|---------------------------------|--|
| Temperature compensation | -4.0000000000...140.0000000000 °F (-20...60 °C) |
| Connections - terminals | Control circuit screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²) flexible without cable end Control circuit screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²) flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²) solid Power circuit screw clamp terminals 1 0.002...0.02 in ² (1.5...10 mm ²) flexible without cable end Power circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) flexible with cable end Power circuit screw clamp terminals 1 0.002...0.009 in ² (1...6 mm ²) solid |
| Tightening torque | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals |
| Height | 2.6 in (66 mm) |
| Width | 1.8 in (45 mm) |
| Depth | 2.8 in (70 mm) |
| Net Weight | 0.273 lb(US) (0.124 kg) |
| Quantity per Set | Set of 10 |

Environment

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| Climatic withstand | IACS E10 |
| IP degree of protection | IP20 conforming to IEC 60529 |
| Ambient air temperature for operation | -4.0000000000...140.0000000000 °F (-20...60 °C) without derating IEC 60947-4-1 |
| Ambient Air Temperature for Storage | -76.0000000000...158.0000000000 °F (-60...70 °C) |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Vibrations6 Gn IEC 60068-2-6 Shocks15 Gn for 11 ms IEC 60068-2-7 |
| Dielectric strength | 1.89 kV 50 Hz 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 BV RINA DNV-GL LROS (Lloyds register of shipping) ATEX INERIS UKCA |

Ordering and shipping details

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|--------------------------|---------------|
| Category | US10I1222347 |
| Discount Schedule | 0I12 |
| GTIN | 3389110701623 |
| Returnability | No |
| Country of origin | FR |

Packing Units

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|------------------------------|--------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.906 in (15.000 cm) |
| Package 1 Width | 11.811 in (30.000 cm) |
| Package 1 Length | 15.748 in (40.000 cm) |
| Package 1 Weight | 7.725 oz (219.000 g) |
| Unit Type of Package 2 | BB2 |
| Number of Units in Package 2 | 36 |
| Package 2 Height | 5.906 in (15.000 cm) |
| Package 2 Width | 11.811 in (30.000 cm) |
| Package 2 Length | 15.748 in (40.000 cm) |
| Package 2 Weight | 17.988 lb(US) (8.159 kg) |
| Unit Type of Package 3 | S02 |
| Number of Units in Package 3 | 36 |
| Package 3 Height | 5.906 in (15.000 cm) |
| Package 3 Width | 11.811 in (30.000 cm) |
| Package 3 Length | 15.748 in (40.000 cm) |
| Package 3 Weight | 17.988 lb(US) (8.159 kg) |

Contractual warranty

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| Warranty | 18 months |
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Sustainable Packaging Transparency RoHS/REACH

Resource performance

Sustainable Packaging

Well-being performance

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant
[EU RoHS Declaration](#)

China Rohs Regulation [China RoHS declaration](#)
Pro-active China RoHS declaration (out of China RoHS legal scope)

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Circularity Profile [End of Life Information](#)

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