

Product data sheet

Specifications



Thermal overload relay, TeSys
Deca, 690VAC, 37 to 50A,
1NO+1NC, class 10A, EverLink
BTR screw

LRD350

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 | LC1D65A LC1D50A LC1D40A |
| Network type | DC 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: 600 V conforming to CSA Power circuit: 600 V conforming to UL Power circuit: 690 V conforming to 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 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 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 4 A BS for signalling circuit |
| [Uiimp] 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 |

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|--------------------------------|---|
| Connections - terminals | 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 Power circuit: EverLink BTR screw connectors 1 cable(s) 1...35 mm ² flexible without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 1...35 mm ² flexible with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 1...35 mm ² solid without cable end |
| Tightening torque | Control circuit: 1.7 N.m - on screw clamp terminals Power circuit: 5 N.m - on EverLink BTR screw connectors |
| Height | 70 mm |
| Width | 55 mm |
| Depth | 123 mm |
| Net weight | 0.375 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 | Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7 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 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 EN 50495 |
| Product certifications | IEC UL CSA CCC EAC DNV-GL RMRS EU-RO MR LROS (Lloyds register of shipping) 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 | 6.4 cm |
| Package 1 Width | 10.5 cm |
| Package 1 Length | 13.7 cm |
| Package 1 Weight | 394.0 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 13 |

| | |
|------------------------------|-----------|
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 5.504 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 208 |
| Package 3 Height | 77.0 cm |
| Package 3 Width | 80.0 cm |
| Package 3 Length | 60.0 cm |
| Package 3 Weight | 96.564 kg |

Contractual warranty

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|----------|-----------|
| Warranty | 18 months |
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Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Total lifecycle Carbon footprint 4

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Compliant

REACH Regulation [REACH Declaration](#)

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](#)

Use Again

Repack and remanufacture

End of life manual availability [End of Life Information](#)

Take-back No

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

Technical Illustration

Assembly's dimensions

