# *Product datasheet*
*Characteristics*

# LRD318
TeSys LRD thermal overload relays - 12...18 A - class 10A

## Main

| | |
|---|---|
| Range | TeSys |
| Product name | TeSys LRD |
| Product or component type | Differential thermal overload relay |
| Device short name | LRD |
| Relay application | Motor protection |
| Product compatibility | LC1D40A<br>LC1D50A<br>LC1D65A |
| Network type | AC<br>DC |
| Thermal protection adjustment range | 12...18 A |
| [Ui] rated insulation voltage | 600 V power circuit conforming to CSA<br>600 V power circuit conforming to UL<br>690 V power circuit conforming to IEC 60947-4-1 |

## 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 |
| [Ith] conventional free air thermal current | 5 A for signalling circuit |
| Permissible current | 0.95 A at 380 V AC-15 for signalling circuit<br>0.06 A at 440 V DC-13 for signalling circuit |
| [Ue] rated operational voltage | 690 V AC 0...400 Hz |
| [Uimp] 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<br>Blue push-button for reset mode |
| Temperature compensation | -20...60 °C |
| Connections - terminals | 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<br>Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 mm² flexible without cable end<br>Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 mm² flexible with cable end<br>Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 mm² solid without cable end |
| Tightening torque | Control circuit : 1.7 N.m on screw clamp terminals<br>Power circuit : 5 N.m on EverLink BTR screw connectors |
| Height | 70 mm |
| Width | 55 mm |
| Depth | 123 mm |
| Product weight | 0.375 kg |

## Environment

| | |
|---|---|
| protective treatment | TH conforming to IEC 60068 |
| 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 IEC 60068-2-7<br>Vibrations 4 gn IEC 60068-2-6 |
| dielectric strength | 6 kV at 50 Hz conforming to IEC 60255-5 |
| standards | ATEX D 94/9/CE<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14 |
| product certifications | ATEX INERIS<br>BV<br>CCC<br>CSA<br>DNV<br>GL<br>GOST<br>LROS (Lloyds register of shipping)<br>RINA<br>UL |

## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0501 - Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |