

Main

| | |
|-------------------------------------|--|
| Range | TeSys |
| Product name | TeSys LRD |
| Product or component type | Non differential thermal overload relay |
| Device short name | LR3D |
| Relay application | Motor protection |
| Product compatibility | LC1D09 LC1D12 LC1D18 LC1D25 LC1D32 LC1D38 |
| Network type | AC DC |
| Overload tripping class | Class 10A conforming to IEC 60947-4-1 |
| Thermal protection adjustment range | 1.6...2.5 A |
| [Ui] rated insulation voltage | 690 V power circuit conforming to IEC 60947-4-1 600 V power circuit conforming to UL 600 V power circuit conforming to CSA |

Complementary

| | |
|--|---|
| Network frequency | 0...400 Hz |
| Mounting support | Under contactor Rail with specific accessories Plate with specific accessories |
| Tripping threshold | 1.14 +/- 0.06 I _r conforming to IEC 60947-4-1 |
| [I _{th}] conventional free air thermal current | 5 A for signalling circuit |
| Permissible current | 0.22 A at 125 V DC-13 for signalling circuit 3 A at 120 V AC-15 for signalling circuit |
| [U _e] rated operational voltage | 690 V AC 0...400 Hz |
| [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 | Blue push-button for reset mode Red push-button stop |
| Temperature compensation | -20...60 °C |
| Connection pitch | 14.5 mm |
| Connections - terminals | Power circuit : lugs-ring terminals Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - without cable end |
| Tightening torque | Power circuit : 2.3 N.m - on lugs-ring terminals screw : M4 Control circuit : 1.7 N.m - on screw clamp terminals |
| Width | 45 mm |
| Depth | 70 mm |
| Product weight | 0.124 kg |

Environment

| | |
|---------------------------------------|---|
| Standards | ATEX D 94/9/CE EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14 |
| Product certifications | ATEX INERIS BV CCC CSA DNV GL GOST RINA UL LROS |
| 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 |
| Fire resistance | 850 °C conforming to IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Shocks 15 Gn for 11 ms IEC 60068-2-7 Vibrations 6 Gn IEC 60068-2-6 |
| Dielectric strength | 6 kV at 50 Hz conforming to IEC 60255-5 |