



Main

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| Range of product | TeSys D thermal overload relays |
| Product or component type | Differential thermal overload relay |
| Device short name | LRD |
| Relay application | Motor protection |
| Product compatibility | LC1D40A...LC1D65A |
| Network type | AC DC |
| Overload tripping class | Class 20 conforming to IEC 60947-4-1 |
| Thermal protection adjustment range | 37...50 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

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| Network frequency | 0...400 Hz |
| Mounting support | Under contactor |
| 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 | 0.75 A at 480 V AC-15 for power circuit 0.06 A at 440 V DC-13 for power circuit |
| [U _e] rated operational voltage | 690 V |
| [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 |
| Temperature compensation | -30...60 °C |
| Connections - terminals | Power circuit: EverLink BTR screw connectors 1 cable(s) 1...35 mm ² - cable stiffness: solid - without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 1...35 mm ² - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 1...35 mm ² - cable stiffness: flexible - without cable end 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: 5 N.m - on EverLink BTR screw connectors Control circuit: 1.7 N.m - on screw clamp terminals |
| Height | 70 mm |
| Width | 55 mm |
| Depth | 123 mm |
| Product weight | 0.375 kg |
| Quantity per set | Set of 10 |

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Environment

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| Standards | CSA C22-2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 |
| Product certifications | ATEX INERIS BV CCC CSA DNV GL GOST RINA UL LROS |
| Protective treatment | TH conforming to IEC 60068 |
| IP degree of protection | IP2x conforming to VDE 0106 |
| 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 | Vibrations 4 Gn IEC 60068-2-6 Shocks 15 Gn for 11 ms IEC 60068-2-7 |
| Dielectric strength | 6 kV at 50 Hz conforming to 60255-5 |