# Product data sheet
## Characteristics

# LRD12
## TeSys LRD, thermal overload relay, 5.5 to 8 A, class 10A

Green Premium™ Product

Product availability: Stock - Normally stocked in distribution facility

## 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 | LC1D18<br>LC1D25<br>LC1D32<br>LC1D12<br>LC1D09<br>LC1D38 |
| Network type | DC<br>AC |
| Thermal protection adjustment range | 5.5…8 A |
| [Ui] rated insulation voltage | Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Power circuit 690 V 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 IEC 60947-4-1 |
| [Ith] conventional free air thermal current | 5 A signalling circuit |
| Permissible current | 3 A 120 V AC-15 signalling circuit<br>0.22 A 125 V DC-13 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 reset |
| Temperature compensation | -4…140 °F (-20…60 °C) |
| Connections - terminals | Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) flexible without cable end<br>Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) flexible with cable end<br>Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) solid without cable end<br>Power circuit screw clamp terminals 1 0.00…0.02 in² (1.5…10 mm²) flexible without cable end<br>Power circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) flexible with cable end<br>Power circuit screw clamp terminals 1 0.00…0.01 in² (1…6 mm²) solid without cable end |
| Tightening torque | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals<br>Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals |
| Width | 1.77 in (45 mm) |
| Depth | 2.76 in (70 mm) |
| Net weight | 0.27 lb(US) (0.124 kg) |

## Environment

| | |
|---|---|
| Protective treatment | TH IEC 60068 |
| IP degree of protection | IP20 IEC 60529 |
| Ambient air temperature for operation | -4…140 °F (-20…60 °C) without derating IEC 60947-4-1 |
| Ambient air temperature for storage | -76…158 °F (-60…70 °C) |
| Flame retardance | V1 UL 94 |
| Mechanical robustness | Vibrations6 Gn IEC 60068-2-6<br>Shocks15 Gn for 11 ms IEC 60068-2-7 |
| Dielectric strength | 6 kV 50 Hz IEC 60255-5 |
| Standards | IEC 60947-5-1<br>CSA C22.2 No 14<br>ATEX D 94/9/CE<br>EN 60947-4-1<br>UL 508<br>EN 60947-5-1<br>IEC 60947-4-1 |
| Product certifications | LROS (Lloyds register of shipping)<br>GOST<br>DNV<br>ATEX INERIS<br>CCC<br>GL<br>CSA<br>UL<br>BV<br>RINA |

## Ordering and shipping details

| | |
|---|---|
| Category | 22347 - CONTACTOR,D-LINE,OVERLOADS-NEW |
| Discount Schedule | I12 |
| GTIN | 00785901206767 |
| Package weight(Lbs) | 0.15 kg (0.32 lb(US)) |
| Returnability | Yes |
| Country of origin | FR |

## Offer Sustainability

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|---|---|
| Sustainable offer status | Green Premium product |
| 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 Carcinogen harm. For more information go to www.p65warnings.ca.gov |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

## Contractual warranty

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|---|---|
| Warranty | 18 months |