



Main

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| Range | Easy TeSys |
| Range of product | Easy TeSys Protect |
| Product or component type | Differential thermal overload relay |
| Device short name | LRN |
| Relay application | Motor protection |
| Phase failure sensitivity | Tripping current $I \geq 30\% \text{ of } I_r$ on one phase, the others at I_r conforming to IEC 60947-4-1 |
| Colour | Grey (RAL 7011) |

Complementary

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|---|---|
| Product compatibility | LC1N25...38 |
| Range compatibility | EasyPact EasyPact D3N LC1N |
| Network type | AC |
| Network frequency | 50...60 Hz |
| Mounting support | Under contactor Plate, with specific accessories Rail, with specific accessories |
| Thermal overload class | Class 10A conforming to IEC 60947-4-1 |
| Signalling function | Relay trip indicator |
| Thermal protection adjustment range | 23...32 A |
| Tripping threshold | $1.14 \pm 0.06 I_r$ conforming to IEC 60947-4-1 |
| Mechanical robustness | Shocks: 6 G for 11 ms conforming to IEC 60068-2-7 Vibrations: 3 GN conforming to IEC 60068-2-6 |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Ith] conventional free air thermal current | 5 A for signalling circuit |
| [Ue] rated operational voltage | $\leq 690 \text{ V AC}$ |
| Associated fuse rating | 63 A gG for power circuit 40 A aM for power circuit 5 A gG for signalling circuit |
| [Ui] rated insulation voltage | 690 V conforming to IEC 60947-4-1 |
| [Uimp] rated impulse withstand voltage | 6 kV |
| Local signalling | Trip indicator |
| Control type | Push-button red stop: Push-button green reset: |
| Temperature compensation | -20...60 °C |
| Connections - terminals | Signalling circuit: screw clamp terminals 2.1...2.5 mm ² - cable stiffness: flexible without cable end Signalling circuit: screw clamp terminals 2.1...2.5 mm ² - cable stiffness: flexible with cable end Signalling circuit: screw clamp terminals 2.1...2.5 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1.25...10 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1.5...6 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1.25...10 mm ² - cable stiffness: solid without cable end |

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| Recommended tightening torque | 2.5 N.m - on screw clamp terminals |
| Height | 44.5 mm |
| Width | 45 mm |
| Depth | 70 mm |
| Net weight | 0.124 kg |

Environment

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|---------------------------------------|---|
| Standards | IEC 60947-4-1 GB 14048 |
| Product certifications | CCC |
| 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 -20...70 °C with derating |
| Ambient air temperature for storage | -60...80 °C |
| Fire resistance | 850 °C conforming to IEC 60068-2-1 |
| Dielectric strength | 6 kV at 50 Hz conforming to IEC 60255-5 |
| Electromagnetic compatibility | Surge withstand: 6 kV conforming to IEC 60801-5 |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.197 cm |
| Package 1 Width | 8.023 cm |
| Package 1 Length | 8.167 cm |
| Package 1 Weight | 150.0 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 33 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 5.34 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 660 |
| Package 3 Height | 90.0 cm |
| Package 3 Width | 60.0 cm |
| Package 3 Length | 80.0 cm |
| Package 3 Weight | 116.8 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Compliant with Exemptions |
| China RoHS Regulation |  China RoHS Declaration |
| RoHS exemption information |  Yes |
| Environmental Disclosure |  Product Environmental Profile |
| Circularity Profile |  End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |