



## Main

|                                     |  |
|-------------------------------------|--|
| Range                               | TeSys  |
| Product name                        | TeSys LT   |
| Product or component type           | Electronic over current relay  |
| Device short name                   | LT47   |
| Device application                  | Protection   |
| Relay application                   | Locked rotor, mechanical jamming $I > 3 \times I_{setting}$<br>Overload $I_{max} > I_{setting}$<br>Sensitivity to phase failure              |
| [Us] rated supply voltage           | 24 V AC<br>24 V DC   |
| Thermal protection adjustment range | 0.5...6 A  |
| [Ui] rated insulation voltage       | Power circuit: 600 V AC conforming to CSA<br>Power circuit: 600 V AC conforming to UL<br>Power circuit: 690 V AC conforming to IEC 60947-4-1 |

## Complementary

|  |  |
|--|--|
| Network frequency  | 50...60 Hz   |
| Mounting support   | Rail   |
| Tripping threshold                                       | 0.5...5 A  |
| Electromagnetic compatibility                            | Resistance to electrostatic discharge: 8 kV in open air conforming to IEC 61000-4-2<br>Resistance to electrostatic discharge: 6 kV in direct mode conforming to IEC 61000-4-2<br>Conducted emission: class A conforming to EN 55011<br>Immunity to electromagnetic interference: 10 V/m conforming to IEC 61000-4-3<br>Immunity to fast transients: 2 kV conforming to IEC 61000-4-4<br>Surge withstand: 6 kV conforming to IEC 61000-4-5<br>Conducted HF disturbances: 10 V conforming to IEC 61000-4-6 |
| Auxiliary contact composition                            | 1 NO + 1 NC  |
| [I <sub>th</sub> ] conventional free air thermal current | 3 A for signalling circuit   |
| Associated fuse rating                                   | 3 A gG for signalling circuit<br>3 A BS for signalling circuit   |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV   |
| Time range   | 1...120 s - control type R-time<br>0.3...30 s - control type O-time  |
| Local signalling   | 1 LED (green)  |

|                         |   |
|-------------------------|---|
|                         | 1 LED (red)   |
| Control type            | automatic: reset  |
| Connections - terminals | Signalling circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Signalling circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Signalling circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Signalling circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Signalling circuit: lugs-ring terminals - external diameter: 7 mm |
| Tightening torque       | Signalling circuit: 1.7 N.m M3.5  |
| Height                  | 70.3 mm   |
| Width                   | 71 mm   |
| Depth                   | 77.2 mm   |
| Product weight          | 0.192 kg  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | IEC 60255-6<br>IEC 60947  |
| Product certifications                | UL<br>CSA   |
| Protective treatment                  | TH conforming to IEC 60068  |
| IP degree of protection               | IP20 conforming to IEC 60529<br>IP20 conforming to VDE 0106   |
| Ambient air temperature for operation | -25...60 °C without derating conforming to IEC 60947-4-1  |
| Ambient air temperature for storage   | -30...80 °C   |
| Operating altitude                    | 2000 m  |
| Mechanical robustness                 | Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7<br>Vibrations: 4 gn conforming to IEC 60068-2-6 |
| Dielectric strength                   | 2 kV at 50 Hz conforming to IEC 60255-5   |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">Download RoHS China Declaration</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

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