Product data sheet Characteristics

LT4760M7S

TeSys LT47 electronic over current relays manual - 5...60 A - 200...240 V AC



| 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 x Isetting Overload Imax > Isetting Sensitivity to phase failure | |
| [Us] rated supply voltage | 200240 V AC | |

| [OS] rated supply voltage | 200240 V AC |
|-------------------------------------|-------------|
| Thermal protection adjustment range | 560 A |
| | |

Complementary

| Range TeSys | Main | | |
|--|--|--|----|
| Product or component type Electronic over current relay Device short name LT47 Device application Protection Relay application Locked rotor, mechanical jamming I > 3 x Isetting Overload Imax > Isetting Sensitivity to phase failure [Us] rated supply voltage 200240 V AC Thermal protection adjustment range 560 A [Ui] rated insulation voltage 600 V AC power circuit conforming to CSA 600 V AC power circuit conforming to ILC 60947-4-1 Complementary Network frequency 5060 Hz Mounting support Rail Tripping threshold 550 A Electromagnetic compatibility Conducted emission class A conforming to EC 61004-3 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 610004-2 Immunity to fast transients 2 kV conforming to IEC 610004-4 Surge withstand 6 kV conforming to IEC 610004-5 Conducted HF disturbances 10 V conforming to IEC 610004-6 Conducted HF disturbances 10 V conforming to IEC 610004-8 Auxiliary contact composition 1 NO + 1 NC [Uith) conventional free air thermal current 3 A GG for signalling circuit 3 A SS for signalling circuit [Utimp] rated impulse withstand voltage 6 kV Time range 0.5.30 s - control type 0-time 1 LED (green) 1 LED (gree | Range | TeSys | |
| Device short name LT47 Device application Relay application Coverdoad Imax > Isetting Sensitivity to phase failure [Us] rated supply voltage 200240 V AC Thermal protection adjustment range 560 A (Ui] rated insulation voltage 600 V AC power circuit conforming to CSA 600 V AC power circuit conforming to UL 690 V AC power circuit conforming to IEC 60947-4-1 Complementary Network frequency 5060 Hz Mounting support Rail Tripping threshold S50 A Electromagnetic compatibility Conducted emission class A conforming to EN 55011 Immunity to electromagnetic interference 10 V/m conforming to IEC 61000-4-3 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-5 Conducted HF disturbances 10 V conforming to IEC 61000-4-6 Auxiliary contact composition 1 NO + 1 NC [Uint] conventional free air thermal current Associated fuse rating 3 A GG for signalling circuit (Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type 0-time 0.310 s - control type 0-time 0.310 s - control type 0-time 0.51EED (green) 1 LED (green) 1 LED (green) 1 LED (green) | Product name | TeSys LT | |
| Device application Protection Relay application Locked rotor, mechanical jamming I > 3 x Isetting Overload Imax > Isetting Sensitivity to phase failure [Us] rated supply voltage 200240 V AC Thermal protection adjustment range 560 A [Ui] rated insulation voltage 600 V AC power circuit conforming to CSA 600 V AC power circuit conforming to UL 690 V AC power circuit conforming to IEC 60947-4-1 Complementary Network frequency 5060 Hz Mounting support Rail Tripping threshold 550 A Electromagnetic compatibility Conducted emission class A conforming to EN 55011 Immunity to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Resistance to electrostatic discharge 8 kV in direct mode conforming to IEC 61000-4-2 Resistance to electrostatic discharge 8 kV in direct mode conforming to IEC 61000-4-2 Resistance to electrostatic discharge 8 kV in direct mode conforming to IEC 61000-4-2 Resistance to electrostatic discharge 8 kV in direct mode conforming to IEC 61000-4-3 Surge withstand 6 kV conforming to IEC 61000-4-5 Conducted HF disturbances 10 V conforming to IEC 61000-4-6 Auxiliary contact composition 1 NO + 1 NC [Ith] conventional free air thermal 3 A for signalling circuit 3 A BS for signalling circuit 3 A BS for signalling circuit 3 A BS for signalling circuit 1 (Uimp] rated impulse withstand voltage 6 kV Time range 0.5.30 s - control type 0-time 0.310 s - control type 0-time 1 LED (green) 1 LED (green) 1 LED (green) | Product or component type | Electronic over current relay | |
| Relay application Locked rotor, mechanical jamming I > 3 x Isetting Overload Imax > Isetting Sensitivity to phase failure [Us] rated supply voltage 200240 V AC Thermal protection adjustment range 560 A [Ui] rated insulation voltage 600 V AC power circuit conforming to CSA 600 V AC power circuit conforming to UL 690 V AC power circuit conforming to IEC 60947-4-1 Complementary Network frequency 5060 Hz Mounting support Rail Electromagnetic compatibility Conducted emission class A conforming to EN 55011 Immunity to electromagnetic interference 10 V/m conforming to IEC 61000-4-3 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-5 Conducted HF disturbances 10 V conforming to IEC 61000-4-5 Conducted HF disturbances 10 V conforming to IEC 61000-4-6 Auxiliary contact composition 1 NO + 1 NC [Ith] conventional free air thermal current Associated fuse rating 3 A gG for signalling circuit current 3.4 gG or signalling circuit [Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type D-time 0.310 s - control type O-time 1. LED (green) | Device short name | LT47 | |
| Coverbad Imax > Isetting | Device application | Protection | |
| Thermal protection adjustment range 560 A [Ui] rated insulation voltage 600 V AC power circuit conforming to CSA 600 V AC power circuit conforming to UL 690 V AC power circuit conforming to IEC 60947-4-1 Complementary Network frequency 5060 Hz Mounting support Rail Tripping threshold 550 A Electromagnetic compatibility Conducted emission class A conforming to EN 55011 Immunity to electromagnetic interference 10 V/m conforming to IEC 61000-4-3 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Resistance to electrostatic discharge 8 kV in direct mode conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-5 Conducted HF disturbances 10 V conforming to IEC 61000-4-6 Auxiliary contact composition 1 NO + 1 NC [Ith] conventional free air thermal 3 A for signalling circuit 3 A BS for signalling circuit Associated fuse rating 3 A gG for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type D-time 0.310 s - control type O-time Local signalling 1 LED (green) 1 LED (green) 1 LED (green) | Relay application | Overload Imax > Isetting | |
| [Ui] rated insulation voltage 600 V AC power circuit conforming to CSA 600 V AC power circuit conforming to UL 690 V AC power circuit conforming to UL 690 V AC power circuit conforming to IEC 60947-4-1 Complementary Network frequency 5060 Hz Mounting support Rail Tripping threshold 550 A Electromagnetic compatibility Conducted emission class A conforming to EN 55011 Immunity to electromagnetic interference 10 V/m conforming to IEC 61000-4-3 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-2 Surge withstand 6 kV conforming to IEC 61000-4-5 Conducted HF disturbances 10 V conforming to IEC 61000-4-6 Auxiliary contact composition 1 NO + 1 NC [Ith] conventional free air thermal current Associated fuse rating 3 A gG for signalling circuit 3 A BS for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type D-time 0.310 s - control type D-time 1. LED (green) 1. LED (green) 1. LED (green) | [Us] rated supply voltage | 200240 V AC | |
| Complementary Network frequency 5060 Hz Mounting support Rail Tripping threshold 550 A Electromagnetic compatibility Electromagnetic compatibility Conducted emission class A conforming to EN 55011 Immunity to electromagnetic interference 10 V/m conforming to IEC 61000-4-3 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Resistance to electrostatic discharge 6 kV in direct mode conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-4 Surge withstand 6 kV conforming to IEC 61000-4-5 Conducted HF disturbances 10 V conforming to IEC 61000-4-6 Auxiliary contact composition 1 NO + 1 NC [Ith] conventional free air thermal current Associated fuse rating 3 A gG for signalling circuit 3 A BS for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type D-time 0.310 s - control type O-time Local signalling 1 LED (green) 1 LED (green) 1 LED (green) | Thermal protection adjustment range | 560 A | |
| Network frequency 5060 Hz | [Ui] rated insulation voltage | 600 V AC power circuit conforming to UL | |
| Mounting support Rail Tripping threshold 550 A Electromagnetic compatibility Conducted emission class A conforming to EN 55011 Immunity to electromagnetic interference 10 V/m conforming to IEC 61000-4-3 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Resistance to electrostatic discharge 6 kV in direct mode conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-5 Surge withstand 6 kV conforming to IEC 61000-4-5 Conducted HF disturbances 10 V conforming to IEC 61000-4-6 Auxiliary contact composition 1 NO + 1 NC [Ith] conventional free air thermal current Associated fuse rating 3 A gG for signalling circuit 3 A BS for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type D-time 0.310 s - control type O-time Local signalling 1 LED (green) 1 LED (green) 1 LED (red) | | | : |
| Tripping threshold 550 A Electromagnetic compatibility Conducted emission class A conforming to EN 55011 Immunity to electromagnetic interference 10 V/m conforming to IEC 61000-4-3 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Resistance to electrostatic discharge 6 kV in direct mode conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-4 Surge withstand 6 kV conforming to IEC 61000-4-5 Conducted HF disturbances 10 V conforming to IEC 61000-4-6 Auxiliary contact composition 1 NO + 1 NC [Ith] conventional free air thermal current Associated fuse rating 3 A for signalling circuit 3 A BS for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type D-time 0.310 s - control type O-time Local signalling 1 LED (green) 1 LED (green) 1 LED (red) | Network frequency | 5060 Hz | |
| Electromagnetic compatibility Conducted emission class A conforming to EN 55011 Immunity to electromagnetic interference 10 V/m conforming to IEC 61000-4-3 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Resistance to electrostatic discharge 6 kV in direct mode conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-4 Surge withstand 6 kV conforming to IEC 61000-4-5 Conducted HF disturbances 10 V conforming to IEC 61000-4-6 Auxiliary contact composition 1 NO + 1 NC [Ith] conventional free air thermal current Associated fuse rating 3 A gG for signalling circuit 3 A BS for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type D-time 0.310 s - control type O-time Local signalling 1 LED (green) 1 LED (red) | Mounting support | Rail | |
| Immunity to electromagnetic interference 10 V/m conforming to IEC 61000-4-3 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Resistance to electrostatic discharge 6 kV in direct mode conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-4 Surge withstand 6 kV conforming to IEC 61000-4-5 Conducted HF disturbances 10 V conforming to IEC 61000-4-6 Auxiliary contact composition 1 NO + 1 NC [Ith] conventional free air thermal current 3 A for signalling circuit 3 A gG for signalling circuit 3 A BS for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type D-time 0.310 s - control type O-time Local signalling 1 LED (green) 1 LED (red) | Tripping threshold | 550 A | |
| [Ith] conventional free air thermal current Associated fuse rating 3 A gG for signalling circuit 3 A BS for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type D-time 0.310 s - control type O-time Local signalling 1 LED (green) 1 LED (red) | Electromagnetic compatibility | Immunity to electromagnetic interference 10 V/m conforming to IEC 61000-4-3 Resistance to electrostatic discharge 8 kV in open air conforming to IEC 61000-4-2 Resistance to electrostatic discharge 6 kV in direct mode conforming to IEC 61000-4-2 Immunity to fast transients 2 kV conforming to IEC 61000-4-4 Surge withstand 6 kV conforming to IEC 61000-4-5 | : |
| Associated fuse rating 3 A gG for signalling circuit 3 A BS for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type D-time 0.310 s - control type O-time Local signalling 1 LED (green) 1 LED (red) | Auxiliary contact composition | 1 NO + 1 NC | |
| 3 A BS for signalling circuit [Uimp] rated impulse withstand voltage 6 kV Time range 0.530 s - control type D-time 0.310 s - control type O-time Local signalling 1 LED (green) 1 LED (red) | | 3 A for signalling circuit | |
| Time range 0.530 s - control type D-time 0.310 s - control type O-time Local signalling 1 LED (green) 1 LED (red) | Associated fuse rating | | |
| 0.310 s - control type O-time Local signalling 1 LED (green) 1 LED (red) | [Uimp] rated impulse withstand voltage | 6 kV | |
| 1 LED (red) | Time range | | |
| Control type Push-button for reset mode | Local signalling | (0) | —; |
| | Control type | Push-button for reset mode | |

| | Electrical for reset mode |
|---------------------------------------|---|
| Connections - terminals | Signalling circuit: screw clamp terminals 1 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end cable end Signalling circuit: screw clamp terminals 1 cable(s) 12.5 mm² - cable stiffness: flexible - without cable end cable end Signalling circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end cable end Signalling circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - without cable end cable end |
| Tightening torque | Signalling circuit: 1.7 N.m screw: M3.5 |
| Height | 70.3 mm |
| Width | 71 mm |
| Depth | 77.2 mm |
| Product weight | 0.192 kg |
| Environment | |
| Standards | IEC 60255-6 IEC 60947 |
| Product certifications | CSA UL |
| Protective treatment | TH conforming to IEC 60068 |
| IP degree of protection | IP20 conforming to VDE 0106 IP20 conforming to IEC 60529 |
| Ambient air temperature for operation | -2560 °C without derating conforming to IEC 60947-4-1 |
| Ambient air temperature for storage | -3080 °C |
| Operating altitude | 2000 m |
| Mechanical robustness | Shocks 15 Gn for 11 ms IEC 60068-2-7 Vibrations 4 gn IEC 60068-2-6 |
| Dielectric strength | 2 kV at 50 Hz conforming to IEC 60255-5 |
| Offer Sustainability | |
| RoHS (date code: YYWW) | Compliant |
| | Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold |
| | Reference not containing SVHC above the threshold |

18 months

Contractual warranty

Warranty period