



### Main

|                              |                             |
|------------------------------|-----------------------------|
| Range of product             | LT3                         |
| Device short name            | LT3SE                       |
| Product or component type    | Thermistor protection units |
| [Uc] control circuit voltage | 24...48 V DC                |
| Reset                        | Manual                      |

### Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Control circuit voltage limits              | 0.8...1.25 Uc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Contacts type and composition               | 1 NC + 1 NO dual voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [Ith] conventional free air thermal current | 5 A for output control relay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [Ui] rated insulation voltage               | 500 V AC output control relay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [Ue] rated operational voltage              | 250 V AC 50/60 Hz for output control relay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Signalling function                         | Voltage indication<br>Fault indication                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Control type                                | Manual reset<br>Manual test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Probe interchangeability                    | Label mark A conforming to IEC 60034-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Hold-in power consumption W                 | < 1 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Hold-in power consumption VA                | >= 2.5 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Resistance                                  | 2700...3100 Ohm tripping<br>1500...1650 Ohm reset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Number of probes                            | <= 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Input voltage                               | < 7.5 V (4000 Ohm) for probe conforming to IEC 60034-11<br>< 2.5 V (1500 Ohm) for probe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Short circuit detection resistance          | < 20 Ohm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Condition of use                            | Connection of probes 500 m for >= 1.5 mm <sup>2</sup><br>Connection of probes 1000 m for >= 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage      | 2.5 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Operational power in VA                     | 100 VA at 220 V - electrical durability: 500000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Breaking capacity                           | 6 A at 120 V AC AC-16<br>3 A at 250 V AC AC-16<br>2 A at 24 V DC DC-13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Connections - terminals                     | Power circuit: cage type connector 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit: cage type connector 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit: cage type connector 2 cable 0.75...2.5 mm <sup>2</sup> - cable stiffness: solid - with cable end<br>Power circuit: cage type connector 2 cable 0.75...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit: cage type connector 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit: cage type connector 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit: cage type connector 1 cable 0.75...2.5 mm <sup>2</sup> - cable stiffness: solid - with cable end<br>Power circuit: cage type connector 1 cable 0.75...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end |

|                   |         |
|-------------------|---------|
| Tightening torque | 0.8 N.m |
| Height            | 100 mm  |
| Width             | 22.5 mm |
| Depth             | 100 mm  |
| Product weight    | 0.22 kg |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | IEC 60034-11<br>VDE 0660                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product certifications                | LROS (Lloyds register of shipping)                                                                                                                                                                                                                                                                                                                                                                                              |
| IP degree of protection               | IP20 conforming to VDE 0106<br>IP20 conforming to IEC 60529                                                                                                                                                                                                                                                                                                                                                                     |
| Ambient air temperature for operation | -25...60 °C                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Ambient air temperature for storage   | -40...85 °C conforming to IEC 60068-2-2<br>-40...85 °C conforming to IEC 60068-2-1                                                                                                                                                                                                                                                                                                                                              |
| Operating altitude                    | > 1500...3000 m with derating in temperature<br><= 1500 m without derating in temperature                                                                                                                                                                                                                                                                                                                                       |
| Vibration resistance                  | 2.5 gn 2...25 Hz conforming to IEC 60068-2-6<br>1 gn 25...150 Hz conforming to IEC 60068-2-6                                                                                                                                                                                                                                                                                                                                    |
| Shock resistance                      | 5 gn 11 ms conforming to IEC 60068-2-27                                                                                                                                                                                                                                                                                                                                                                                         |
| Electromagnetic compatibility         | Susceptibility to electromagnetic fields - test level level 3 conforming to IEC 61000-4-3<br>Surge resistance 1.2/50-8/20 - test level level 4 conforming to IEC 61000-4-5<br>Resistance to fast transient - test level level 3 conforming to IEC 61000-4-4<br>Resistance to electrostatic discharge - test level level 3 conforming to IEC 61000-4-2<br>Immunity to microbreaks and voltage drops conforming to IEC 61000-4-11 |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|