# Product data sheet

Specifications


## Sensor Module, TeSys Tera, CTVT Horizontal 2.5 to 25A, 690V, W110mm, inbuilt Input for ZCT, NEMA type, Motor Management

LTMTCTV25UT

## Main

| | |
|---|---|
| **Range** | TeSys |
| **Product name** | TeSys Tera |
| **Device short name** | LTMT |
| **Product or component type** | Sensor |
| **Device application** | Motor protection |

## Complementary

| | |
|---|---|
| **[Ui] rated insulation voltage** | 690 V EN/IEC 60947-1 |
| **Overvoltage category** | III |
| **Pollution degree** | 3 |
| **[In] rated current** | 2.5…25 A at 60...690 V, AC 45...65 Hz |
| **[Uimp] rated impulse withstand voltage** | 6 kV current or voltage measurement circuit |
| **Protection type** | Overload protection<br>Stalled rotor<br>Locked rotor<br>Short-circuit<br>Undercurrent<br>Overcurrent<br>Current unbalance<br>Phase reversal<br>Phase loss<br>Earth fault protection internal<br>Earth fault protection external<br>Excessive starting time<br>Max number of start<br>Undervoltage<br>Overvoltage<br>Voltage unbalance<br>Underfrequency<br>Overfrequency<br>Reacceleration<br>Communication failure<br>Fail to stop<br>Under power<br>Over power<br>Power factor variation<br>Anti-backspin timer<br>Block output |
| **Short-circuit withstand** | 100 kA conforming to EN/IEC 60947-4-1 |
| **Measurement accuracy** | +/- 1 % voltage<br>+/- 1 % current |
| **Mounting mode** | Horizontal |
| **Connection pitch** | 0.2 in (5.0 mm) |
| **Connections - terminals** | Voltage circuit connector 0.0003…0.004 in² (0.2…2.5 mm²) 12 AWG...24 AWG) |

| | |
|---|---|
| **Input type** | Analog |
| **Sensor type** | Current sensor<br>Voltage sensor |
| **Electromagnetic compatibility** | Immunity to radiated electromagnetic interference (in open air), level 3, 10 Vrms, conforming to EN/IEC 61000-4-3<br>Resistance to electrostatic discharge (in open air), level 3, 8 kV, conforming to EN/IEC 61000-4-2<br>Digital output: resistance to electrostatic discharge (on contact), level 3, 6 kV, conforming to EN/IEC 61000-4-2<br>Digital output: immunity to shock waves (common mode), 4 kV, conforming to EN/IEC 61000-4-5<br>24 V DC sensors: immunity to shock waves (common mode), 1 kV, conforming to EN/IEC 61000-4-5<br>100...240 V inputs: immunity to shock waves (common mode), 2 kV, conforming to EN/IEC 61000-4-5<br>Communication: immunity to shock waves (common mode), 2 kV, conforming to EN/IEC 61000-4-5<br>Temperature sensor: immunity to shock waves (common mode), 1 kV, conforming to EN/IEC 61000-4-5<br>Digital output: immunity to shock waves (serial mode), 2 kV, conforming to EN/IEC 61000-4-5<br>24 V DC sensors: immunity to shock waves (serial mode), level 3, 1 kV, conforming to EN/IEC 61000-4-5<br>100...240 V inputs: immunity to shock waves (serial mode), 1 kV, conforming to EN/IEC 61000-4-5<br>Temperature sensor: immunity to shock waves (serial mode), 0.5 kV, conforming to EN/IEC 61000-4-5<br>Immunity to radiated radio-electrical interference, level 3, 10 Vrms, conforming to EN/IEC 61000-4-6 |
| **Depth** | 2.4 in (60.5 mm) |
| **Height** | 2.5 in (63.9 mm) |
| **Width** | 5.1 in (129.8 mm) |
| **Tightening torque** | Control circuit 4.4 lbf.in (0.5 N.m) flat 0.1 in (3 mm) |

# Environment

| | |
|---|---|
| **Product certifications** | IEC<br>UL<br>cUL |
| **Standards** | EN/IEC 60947-4-1<br>UL/CSA 60947-4-1 |
| **Fire resistance** | 1202 °F (650 °C) EN/IEC 60695-2-12<br>1760 °F (960 °C) UL 94 |
| **Protective treatment** | 12 x 24 hour cycles EN/IEC 60068-2-30 |
| **Ambient air temperature for storage** | -40…176 °F (-40…80 °C) |
| **Operating altitude** | <= 2000 m without derating |
| **Mechanical robustness** | Shocks half sine wave acceleration15 Gn for 11 ms EN/IEC 60068-2-27<br>Vibrations mounted on symmetrical rail1 Gn, 5...300 Hz EN/IEC 60068-2-6<br>Vibrations plate mounted4 Gn, 5...300 Hz EN/IEC 60068-2-6 |
| **Ambient air temperature for operation** | -4…158 °F (-20…70 °C) |

# Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 2.6 in (6.5 cm) |
| **Package 1 Width** | 3.0 in (7.5 cm) |
| **Package 1 Length** | 5.5 in (14 cm) |
| **Package 1 Weight** | 7.5 oz (213 g) |

| | |
|---|---|
| **Unit Type of Package 2** | S01 |
| **Number of Units in Package 2** | 2 |
| **Package 2 Height** | 5.9 in (15 cm) |
| **Package 2 Width** | 5.9 in (15 cm) |
| **Package 2 Length** | 15.7 in (40 cm) |
| **Package 2 Weight** | 30.6 oz (867 g) |
| **Unit Type of Package 3** | P06 |
| **Number of Units in Package 3** | 96 |
| **Package 3 Height** | 413.4 in (1050 cm) |
| **Package 3 Width** | 37.008 in (94 cm) |
| **Package 3 Length** | 44.9 in (114 cm) |
| **Package 3 Weight** | 71.536 lb(US) (32.448 kg) |

## Contractual warranty

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|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **16 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **5 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0.2 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **10 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.4 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **91deacc6-c4f3-4ba8-a61d-c6cf885fa9eb** |
| EU RoHS Directive | **Compliant By Exemption** |
| REACh Regulation | **Reference contains Substances of Very High Concern above the threshold** |
| Halogen content performance | **Halogen free plastic parts product** |
| PVC free | **Yes** |
| Silicon free | **Yes** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **10** |
| Circularity Profile | **End of Life Information** |
| Take-back | **No** |