# Product datasheet

Specifications



## motor controller LTMR TeSys T - 24 V DC 100 A for Modbus

Local distributor code:

389823034 LTMR100MBD

Discontinued on: 9 Jul 2026

**EAN Code: 3389119404662**

Discontinued

## Main

| | |
|---|---|
| **Range** | TeSys |
| **Product name** | TeSys T |
| **Device short name** | LTMR |
| **Product or component type** | Motor controller |
| **Device application** | Equipment monitoring and control |
| **Measurement current** | 5…100 A |
| **[Us] rated supply voltage** | 24 V DC |
| **Current consumption** | 56...127 mA |
| **Supply voltage limits** | 20.4…26.24 V DC |
| **Communication port protocol** | Modbus |
| **Bus type** | Modbus 2-wire RS 485 interface, addressing 1...247, transmission rate 1.2...19.2 kbit/s, RJ45 with 2 shielded twisted pairs<br>Modbus 2-wire RS 485 interface, addressing 1...247, transmission rate 1.2...19.2 kbit/s, terminal block with 2 shielded twisted pairs |

## Complementary

| | |
|---|---|
| **[Ui] rated insulation voltage** | 690 V conforming to EN/IEC 60947-1<br>690 V conforming to CSA C22.2 No 14<br>690 V conforming to UL 508 |
| **[Uimp] rated impulse withstand voltage** | 6 kV current or voltage measurement circuit conforming to EN/IEC 60947-4-1<br>0.8 kV communication circuit conforming to EN/IEC 60947-4-1<br>0.8 kV supply, inputs and outputs conforming to EN/IEC 60947-4-1 |
| **Short-circuit withstand** | 100 kA conforming to EN/IEC 60947-4-1 |
| **Associated fuse rating** | 4 A gG for output<br>0.5 A gG for control circuit |
| **Protection type** | Thermal overload protection<br>Phase unbalance<br>Overload (long time)<br>Phase failure<br>Thermal protection<br>Power factor variation<br>Reverse polarity protection<br>Overload<br>Locked rotor<br>Load fluctuation<br>Earth-leakage protection |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Network and machine diagnosis type** | Remaining operating time before overload tripping<br>Phase fault and earth fault trip counters<br>Fault recording<br>Waiting time after overload tripping<br>Motor control command recording<br>Event recording<br>Starting current and time<br>Trip history information<br>Running hours counter/operating time<br>Trip context information |
| **Logic input number** | 6 |
| **Input current** | 7 mA |
| **Current state 0 guaranteed** | Logic input: < 5 V and <= 15 mA for 5 ms |
| **Current state 1 guaranteed** | Logic input: < 15 V and 2...15 mA for 15 ms |
| **maximum output switching frequency** | 2 Hz |
| **Load current** | 5 A at 250 V AC for logic output<br>5 A at 30 V DC for logic output |
| **Permissible power** | 480 VA (AC-15), Ie = 2 A, 500000 cycles (output)<br>30 W (DC-13), Ie = 1.25 A, 500000 cycles (output) |
| **maximum operating rate** | 1800 cyc/h |
| **Contacts type and composition** | 1 NO + 1 NC fault signal<br>3 NO |
| **Metering type** | Phase current I1, I2, I3 RMS<br>Temperature<br>Average current Iavg<br>Earth-fault current<br>Imbalance current |
| **Measurement accuracy** | 5...15 % earth fault current internal measurement<br>1 % voltage (100...830 V)<br>3 % power factor<br>5 % earth fault current external measurement<br>+/- 30 min/year internal clock<br>0,02 temperature<br>5 % active and reactive power<br>0,02 current |
| **Overvoltage category** | III |
| **Connection pitch** | 5.08 mm |
| **Connections - terminals** | Control circuit: connector 1 cable(s) 0.25…2.5 mm² (24 AWG...14 AWG) flexible with cable end<br>Control circuit: connector 1 cable(s) 0.2…2.5 mm² (24 AWG...14 AWG) flexible without cable end<br>Control circuit: connector 1 cable(s) 0.25…2.5 mm² (24 AWG...14 AWG) flexible without cable end<br>Control circuit: connector 1 cable(s) 0.2…2.5 mm² (24 AWG...14 AWG) solid without cable end<br>Control circuit: connector 2 cable(s) 0.2…1 mm² (24 AWG...14 AWG) flexible with cable end<br>Control circuit: connector 2 cable(s) 0.2…1.5 mm² (24 AWG...14 AWG) flexible without cable end<br>Control circuit: connector 2 cable(s) 0.5…1.5 mm² (24 AWG...14 AWG) flexible without cable end<br>Control circuit: connector 2 cable(s) 0.2…1 mm² (24 AWG...14 AWG) solid without cable end |
| **Tightening torque** | Control circuit: 0.5…0.6 N.m flat screwdriver 3 mm |
| **Pollution degree** | 3 |

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|---|---|
| **Electromagnetic compatibility** | Electrostatic discharge, 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2<br>Radiated RF fields, 3, 10 V/m, conforming to EN/IEC 61000-4-3<br>Fast transients immunity test (other circuits), level 3, 2 kV, conforming to EN/IEC 61000-4-4<br>Fast transients immunity test (on supply and relay outputs), level 4, 4 kV, conforming to EN/IEC 61000-4-4<br>Voltage dips and interruptions immunity test, 70 %, 500 ms, conforming to EN/IEC 61000-4-11<br>Conducted RF disturbances, 10 V, conforming to EN/IEC 61000-4-6<br>Temperature sensor: surges (serial mode), 0.5 kV, conforming to EN/IEC 61000-4-5<br>Temperature sensor: surges (common mode), 1 kV, conforming to EN/IEC 61000-4-5<br>Control circuit: surges (serial mode), 1 kV, conforming to EN/IEC 61000-4-5<br>Control circuit: surges (common mode), 1 kV, conforming to EN/IEC 61000-4-5<br>Communication: surges (common mode), 2 kV, conforming to EN/IEC 61000-4-5<br>Relay outputs and supply: surges (serial mode), 2 kV, conforming to EN/IEC 61000-4-5<br>Relay outputs and supply: surges (common mode), 4 kV, conforming to EN/IEC 61000-4-5 |
| **Width** | 91 mm |
| **Height** | 61 mm |
| **Depth** | 122.5 mm |
| **Net weight** | 0.53 kg |
| **Web services** | Web server |
| **Compatibility code** | LTMR |

## Environment

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|---|---|
| **Standards** | IACS E10<br>CSA C22.2 No 14<br>EN 60947-4-1<br>UL 508<br>IEC 60947-4-1 |
| **Product certifications** | NOM<br>RMRoS<br>DNV<br>C-Tick<br>RINA<br>CSA<br>BV<br>GL<br>KERI<br>EAC<br>LROS (Lloyds register of shipping)<br>ABS<br>UL<br>CCC<br>ATEX |
| **Protective treatment** | 12 x 24 hour cycles conforming to EN/IEC 60068-2-30<br>48 h conforming to EN/IEC 60070-2-11<br>TH conforming to EN/IEC 60068 |
| **Fire resistance** | 650 °C conforming to EN/IEC 60695-2-12<br>960 °C conforming to UL 94 |
| **Ambient air temperature for operation** | -20…60 °C |
| **Ambient air temperature for storage** | -40…80 °C |
| **Operating altitude** | <= 2000 m without derating |
| **Mechanical robustness** | Vibrations mounted on symmetrical rail: 1 Gn, 5...300 Hz conforming to EN/IEC 60068-2-6<br>Vibrations plate mounted: 4 Gn, 5...300 Hz conforming to EN/IEC 60068-2-6<br>Shocks half sine wave acceleration: 15 Gn for 11 ms conforming to EN/IEC 60068-2-27 |
| **IP degree of protection** | IP20 |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 7.1 cm |
| **Package 1 Width** | 10.0 cm |
| **Package 1 Length** | 13.5 cm |
| **Package 1 Weight** | 519.0 g |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 10 |
| **Package 2 Height** | 15.0 cm |
| **Package 2 Width** | 30.0 cm |
| **Package 2 Length** | 40.0 cm |
| **Package 2 Weight** | 5.564 kg |

## Logistical informations

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|---|---|
| **Country of origin** | CN |

## 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 | **25 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **18 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.1 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] | **5 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **1 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 | **Fc01c523-9a07-4dfa-988f-c721d4816782** |
| EU RoHS Directive | **Compliant By Exemption** |
| REACh Regulation | **Reference contains Substances of Very High Concern above the threshold** |
| Halogen-free status | **Halogen free plastic parts product** |
| PVC free | **Yes** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **1** |
| End of life manual availability | **End of Life Information** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |