# Product datasheet

Specifications

Green Premium™

## motor controller LTMR TeSys T - 24 V DC 8 A for Ethernet TCP/IP

LTMR08EBD

## Main

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|---|---|
| **Range** | TeSys |
| **Product Name** | TeSys T |
| **Device Short Name** | LTMR |
| **Product Or Component Type** | Motor controller |
| **Device Application** | Equipment monitoring and control |
| **Measurement Current** | 0.4…8 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 TCP/EtherNet/IP |
| **Bus Type** | Ethernet IEEE 802.3 interface, addressing 0...159, transmission rate 10...100 Mbit/s, RJ45 with 2 shielded twisted pairs |

## Complementary

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| **[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** | Phase failure<br>Locked rotor<br>Earth-leakage protection<br>Thermal protection<br>Overload<br>Phase unbalance<br>Reverse polarity protection<br>Power factor variation<br>Overload (long time)<br>Thermal overload protection<br>Load fluctuation |
| **Network And Machine Diagnosis Type** | Event recording<br>Remaining operating time before overload tripping<br>Trip context information<br>Waiting time after overload tripping<br>Running hours counter/operating time<br>Trip history information<br>Fault recording<br>Starting current and time<br>Phase fault and earth fault trip counters<br>Motor control command recording |

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

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|---|---|
| **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** | Average current Iavg<br>Temperature<br>Earth-fault current<br>Phase current I1, I2, I3 RMS<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>1 % current<br>5 % active and reactive power |
| **Overvoltage Category** | III |
| **Connection Pitch** | 5.08 mm |
| **Connections - Terminals** | Control circuit: connector 1 cable(s) 0.25…2.5 mm² (AWG 24...AWG 14) flexible with cable end<br>Control circuit: connector 1 cable(s) 0.2…2.5 mm² (AWG 24...AWG 14) flexible without cable end<br>Control circuit: connector 1 cable(s) 0.25…2.5 mm² (AWG 24...AWG 14) flexible without cable end<br>Control circuit: connector 1 cable(s) 0.2…2.5 mm² (AWG 24...AWG 14) solid without cable end<br>Control circuit: connector 2 cable(s) 0.2…1 mm² (AWG 24...AWG 14) flexible with cable end<br>Control circuit: connector 2 cable(s) 0.2…1.5 mm² (AWG 24...AWG 14) flexible without cable end<br>Control circuit: connector 2 cable(s) 0.5…1.5 mm² (AWG 24...AWG 14) flexible without cable end<br>Control circuit: connector 2 cable(s) 0.2…1 mm² (AWG 24...AWG 14) solid without cable end |
| **Tightening Torque** | Control circuit: 0.5…0.6 N.m flat screwdriver 3 mm |
| **Pollution Degree** | 3 |
| **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 |

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| **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>UL 508<br>CSA C22.2 No 14<br>EN 60947-4-1<br>IEC 60947-4-1 |
| **Product Certifications** | CCC<br>ABS<br>C-Tick<br>NOM<br>CSA<br>RMRoS<br>RINA<br>UL<br>BV<br>KERI<br>DNV<br>GL<br>EAC<br>LROS (Lloyds register of shipping)<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

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|---|---|
| **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** | 5.512 kg |

## Contractual warranty

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| **Warranty** | 12 months |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

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|---|---|
| Mercury Free | |
| Rohs Exemption Information | Yes |
| Pvc Free | |
| Halogen Free Plastic Parts Product | |

## Certifications & Standards

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant with Exemptions |
| **China Rohs Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| **Circularity Profile** | End of Life Information |