

Product datasheet

Specifications



motor controller LTMR TeSys T - 100..240 V AC 8 A for Ethernet TCP/IP

LTMR08EFM

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 | 100...240 V AC 50/60 Hz |
| Current consumption | 8...62.8 mA |
| Supply voltage limits | 93.5...264 V AC |
| 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 60947-1 690 V conforming to CSA C22.2 No 14 690 V conforming to UL 508 |
| [Uimp] rated impulse withstand voltage | 4 kV supply, inputs and outputs conforming to EN/IEC 60947-4-1 6 kV current or voltage measurement circuit conforming to EN/IEC 60947-4-1 0.8 kV communication circuit 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 0.5 A gG for control circuit |
| Protection type | Thermal overload protection Overload Thermal protection Locked rotor Phase failure Phase unbalance Load fluctuation Reverse polarity protection Overload (long time) Earth-leakage protection Power factor variation |
| Network and machine diagnosis type | Trip context information Phase fault and earth fault trip counters Trip history information Event recording Remaining operating time before overload tripping Starting current and time Fault recording Waiting time after overload tripping Running hours counter/operating time Motor control command recording |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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| Logic input number | 6 |
| Input current | 3.1 mA at 100 V 7.5 mA at 240 V |
| Current state 0 guaranteed | Logic input: 0...40 V and \leq 15 mA for 25 ms |
| Current state 1 guaranteed | Logic input: 79...264 V and \geq 2 mA for 25 ms |
| maximum output switching frequency | 2 Hz |
| Load current | 5 A at 250 V AC for logic output 5 A at 30 V DC for logic output |
| Permissible power | 480 VA (AC-15), $I_e = 2$ A, 500000 cycles (output) 30 W (DC-13), $I_e = 1.25$ A, 500000 cycles (output) |
| Maximum operating rate | 1800 cyc/h |
| Contacts type and composition | 1 NO + 1 NC fault signal 3 NO |
| Metering type | Earth-fault current Imbalance current Temperature Average current Iavg Phase current I1, I2, I3 RMS |
| Measurement accuracy | 5...15 % earth fault current internal measurement 1 % voltage (100...830 V) 3 % power factor 5 % earth fault current external measurement +/- 30 min/year internal clock 0,02 temperature 1 % current 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 mm ² (AWG 24...AWG 14) flexible with cable end Control circuit: connector 1 cable(s) 0.2...2.5 mm ² (AWG 24...AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.25...2.5 mm ² (AWG 24...AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.2...2.5 mm ² (AWG 24...AWG 14) solid without cable end Control circuit: connector 2 cable(s) 0.2...1 mm ² (AWG 24...AWG 14) flexible with cable end Control circuit: connector 2 cable(s) 0.2...1.5 mm ² (AWG 24...AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.5...1.5 mm ² (AWG 24...AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.2...1 mm ² (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 |

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| Electromagnetic compatibility | Electrostatic discharge, 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2 Radiated RF fields, 3, 10 V/m, conforming to EN/IEC 61000-4-3 Fast transients immunity test (other circuits), level 3, 2 kV, conforming to EN/IEC 61000-4-4 Fast transients immunity test (on supply and relay outputs), level 4, 4 kV, conforming to EN/IEC 61000-4-4 Voltage dips and interruptions immunity test, 70 %, 500 ms, conforming to EN/IEC 61000-4-11 Conducted RF disturbances, 10 V, conforming to EN/IEC 61000-4-6 Temperature sensor: surges (serial mode), 0.5 kV, conforming to EN/IEC 61000-4-5 Temperature sensor: surges (common mode), 1 kV, conforming to EN/IEC 61000-4-5 Control circuit: surges (serial mode), 1 kV, conforming to EN/IEC 61000-4-5 Communication: surges (common mode), 2 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (serial mode), 2 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (common mode), 4 kV, conforming to EN/IEC 61000-4-5 Control circuit: surges (common mode), 2 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 | EN 60947-4-1 IEC 60947-4-1 CSA C22.2 No 14 IACS E10 UL 508 |
| product certifications | NOM LROS (Lloyds register of shipping) RMRoS CSA BV KERI GL ABS ATEX RINA UL C-Tick EAC CCC DNV |
| Protective treatment | 12 x 24 hour cycles conforming to EN/IEC 60068-2-30 48 h conforming to EN/IEC 60070-2-11 TH conforming to EN/IEC 60068 |
| Fire resistance | 650 °C conforming to EN/IEC 60695-2-12 960 °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 Vibrations plate mounted: 4 Gn, 5...300 Hz conforming to EN/IEC 60068-2-6 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 | 10.0 cm |
| Package 1 Width | 7.1 cm |
| Package 1 Length | 13.5 cm |
| Package 1 Weight | 534.0 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 | 5.661 kg |

Contractual warranty

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|-----------------|-----------|
| Warranty | 18 months |
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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-CO₂ 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

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

✓ Pvc Free

✓ Halogen Free Plastic Parts Product

Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Compliant with Exemptions

China Rohs Regulation

[China RoHS declaration](#)

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](#)