Product datasheet

Specifications





Motor Management, TeSys T, motor controller, Modbus, 6 logic inputs, 3 relay logic outputs, 0.4 to 8A, 24VDC

LTMR08MBD

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 | 0.48 A | |
| [Us] Rated Supply Voltage | 24 V DC | |
| Current Consumption | 56127 mA | |
| Supply Voltage Limits | 20.426.24 V DC | |
| Communication Port Protocol | Modbus | |
| Bus Type | Modbus 2-wire RS 485 interface, addressing 1247, transmission rate 1.219.2 kbit/s, RJ45 with 2 shielded twisted pairs Modbus 2-wire RS 485 interface, addressing 1247, transmission rate 1.219.2 kbit/s, terminal block with 2 shielded twisted pairs | |

Complementary

| [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 | 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 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 0.5 A gG for control circuit |
| Protection Type | Phase unbalance Locked rotor Power factor variation Load fluctuation Overload Overload (long time) Phase failure Thermal protection Tarmal overload protection Earth-leakage protection Reverse polarity protection |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

| Network And Machine Diagnosis Type | Running hours counter/operating time |
|---------------------------------------|--|
| .36~ | Trip history information Phase fault and earth fault trip counters |
| | Fault recording |
| | Waiting time after overload tripping |
| | Remaining operating time before overload tripping |
| | Trip context information |
| | Starting current and time Event recording |
| | Motor control command recording |
| 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 215 mA for 15 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), le = 2 A, 500000 cycles (output) |
| | 30 W (DC-13), le = 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 | Average current lavg |
| | Earth-fault current |
| | Phase current 11, 12, 13 RMS Imbalance current |
| | Temperature |
| Measurement Accuracy | 515 % earth fault current internal measurement |
| • | 1 % voltage (100830 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) 0.252.5 mm² (AWG 24AWG 14) flexible with |
| | cable end Control circuit: connector 1 cable(s) 0.2 2.5 mm² (AWG 24 AWG 14) flevible |
| | Control circuit: connector 1 cable(s) 0.22.5 mm² (AWG 24AWG 14) flexible without cable end |
| | Control circuit: connector 1 cable(s) 0.252.5 mm² (AWG 24AWG 14) flexible |
| | without cable end |
| | Control circuit: connector 1 cable(s) 0.22.5 mm² (AWG 24AWG 14) solid without |
| | cable end Control circuit: connector 2 cable(s) 0.21 mm² (AWG 24AWG 14) flexible with |
| | cable end Control circuit: connector 2 cable(s) 0.21.5 mm² (AWG 24AWG 14) flexible |
| | without cable end |
| | Control circuit: connector 2 cable(s) 0.51.5 mm² (AWG 24AWG 14) flexible |
| | without cable end |
| | Control circuit: connector 2 cable(s) 0.21 mm² (AWG 24AWG 14) solid without cable end |
| Tightening Torque | Control circuit: 0.50.6 N.m flat screwdriver 3 mm |
| Pollution Degree | 3 |
| i onudon Degree | 3 |

| Flectromagnetic Competibility | Electrostatic displayers 2. 9 IAV oir 6 IAV |
|--|--|
| 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 |
| | Control circuit: surges (common 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 |
| Width | 91 mm |
| Height | 61 mm |
| Depth | 122.5 mm |
| Net Weight | 0.53 kg |
| Web Services | Web server |
| Compatibility Code | LTMR |
| Environment | |
| Standards | IACS E10 |
| | EN 60947-4-1 |
| | UL 508 |
| | CSA C22.2 No 14 IEC 60947-4-1 |
| Product Certifications | DNV |
| | EAC |
| | ABS |
| | BV |
| | CSA |
| | UL |
| | RINA |
| | RMRoS |
| | CCC |
| | GL KERI |
| | LROS (Lloyds register of shipping) |
| | NOM |
| | ATEX |
| | C-Tick |
| 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 | -2060 °C |
| Ambient Air Temperature For Storage | -4080 °C |
| Operating Altitude | <= 2000 m without derating |
| Mechanical Robustness | Vibrations mounted on symmetrical rail: 1 Gn, 5300 Hz conforming to EN/IEC |
| | 60068-2-6 |
| | Vibrations plate mounted: 4 Gn, 5300 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 |
| | |

Packing Units

Ip Degree Of Protection

IP20

| Unit Type Of Package 1 | PCE |
|------------------------------|----------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 7.2 cm |
| Package 1 Width | 10.0 cm |
| Package 1 Length | 13.6 cm |
| Package 1 Weight | 515.0 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 | 5.507 kg |

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

| Ø | Mercury Free |
|----------|------------------------------------|
| Ø | Rohs Exemption Information Yes |
| Ø | Pvc Free |
| ② | 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 |