



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 | CANopen |
| Bus type | CANopen ISO 1198 interface, addressing 1...127, transmission rate 10...1000 kbit/s, SUB-D 9 with 4 twisted shielded pairs cable CANopen ISO 1198 interface, addressing 1...127, transmission rate 10...1000 kbit/s, terminal block with 4 twisted shielded pairs cable |

Complementary

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

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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| | Locked rotor Overload (long time) Load fluctuation Power factor variation |
| Network and machine diagnosis type | Phase fault and earth fault trip counters Remaining operating time before overload tripping Running hours counter/operating time Starting current and time Waiting time after overload tripping Fault recording Event recording Trip context information Trip history information Motor control command recording |
| 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 ≤ 15 mA for 25 ms |
| Current state 1 guaranteed | Logic input : 79...264 V and ≥ 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) |
| Operating rate | 1800 cyc/h |
| Contacts type and composition | 1 NO + 1 NC fault signal 3 NO |
| Metering type | Earth-fault current Phase current I1, I2, I3 RMS Temperature Average current Iavg Imbalance current |
| Measurement accuracy | 3 % power factor ($\cos \varphi > 0.6$) +/- 30 min/year internal clock 0,02 temperature 5...15 % earth fault current internal measurement (for current > 0.1 A) 1 % current 1 % voltage (100...830 V) 5 % active and reactive power 5 % earth fault current external measurement (< 5 % or 0.01 A) |
| Overvoltage category | III |
| Connection pitch | 5.08 mm |
| Connections - terminals | Connector, 1 flexible cable with cable end 0.25...2.5 mm ² /AWG 24...AWG 14 for control circuit Connector, 1 flexible cable without cable end 0.2...2.5 mm ² /AWG 24...AWG 14 for control circuit Connector, 1 flexible cable without cable end 0.25...2.5 mm ² /AWG 24...AWG 14 for control circuit Connector, 1 solid cable without cable end 0.2...2.5 mm ² /AWG 24...AWG 14 for control circuit Connector, 2 flexible cable with cable end 0.2...1 mm ² /AWG 24...AWG 14 for control circuit Connector, 2 flexible cable without cable end 0.2...1.5 mm ² /AWG 24...AWG 14 for control circuit Connector, 2 flexible cable without cable end 0.5...1.5 mm ² /AWG 24...AWG 14 for control circuit Connector, 2 solid cable without cable end 0.2...1 mm ² /AWG 24...AWG 14 for control circuit |
| Tightening torque | 0.5...0.6 N.m, 3 mm flat screwdriver for control circuit |
| Pollution degree | 3 |
| Electromagnetic compatibility | <ul style="list-style-type: none"> • electrostatic discharge 3 (8 kV air, 6 kV contact), conforming to EN/IEC 61000-4-2 • 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 • conducted RF disturbances (10 V), conforming to EN/IEC 61000-4-6 • surges serial mode (1 kV) control circuit, conforming to EN/IEC 61000-4-5 • surges common mode (2 kV) communication, conforming to EN/IEC 61000-4-5 • surges common mode (2 kV) control circuit, conforming to EN/IEC 61000-4-5 • radiated RF fields 3 (10 V/m), conforming to EN/IEC 61000-4-3 • voltage dips and interruptions immunity test (70 %, 500 ms), conforming to EN/IEC 61000-4-11 • surges serial mode (0.5 kV) temperature sensor, conforming to EN/IEC 61000-4-5 • surges common mode (1 kV) temperature sensor, conforming to EN/IEC 61000-4-5 • surges serial mode (2 kV) relay outputs and supply, conforming to EN/IEC 61000-4-5 • surges common mode (4 kV) relay outputs and supply, conforming to EN/IEC 61000-4-5 |
| Width | 91 mm |

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| Height | 61 mm |
| Depth | 122.5 mm |
| Product weight | 0.53 kg |
| Web services | Web server |
| Compatibility code | LTMR |

Environment

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| Standards | EN 60947-4-1 IACS E10 IEC 60947-4-1 UL 508 CSA C22.2 No 14 |
| Product certifications | ABS ATEX BV CCC CSA C-Tick DNV GL KERI LROS (Lloyds register of shipping) NOM RINA RMRoS UL EAC |
| 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 | <ul style="list-style-type: none"> • shocks half sine wave acceleration (15 Gn for 11 ms) conforming to EN/IEC 60068-2-27 • 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 |
| IP degree of protection | IP20 |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0501 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available Product Environmental Profile |
| Product end of life instructions | Available End of Life Information |

Contractual warranty

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| Warranty period | 18 months |
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