



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	0.4...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
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 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 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	Overload Locked rotor Load fluctuation Thermal protection Phase unbalance Reverse polarity protection Phase failure

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

	Overload (long time) Earth-leakage protection Thermal overload protection Power factor variation
Network and machine diagnosis type	Motor control command recording Trip context information Trip history information Starting current and time Phase fault and earth fault trip counters Remaining operating time before overload tripping Running hours counter/operating time Fault recording Event recording Waiting time after overload tripping
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	Temperature Earth-fault current Imbalance current Average current I_{avg} Phase current I_1, I_2, I_3 RMS
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

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

Environment

Standards	IEC 60947-4-1 UL 508 CSA C22.2 No 14 EN 60947-4-1 IACS E10
Product certifications	RINA UL RMRoS CSA ABS CCC NOM C-Tick EAC DNV GL KERI BV LROS (Lloyds register of shipping) ATEX
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

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

Warranty period	18 months
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