



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	Profibus DP
Bus type	Profibus DP polarised 2-wire RS485 interface, addressing 1...125, transmission-rate 9.6 kbit/s...12 Mbit/s, SUB-D 9 with 2 shielded twisted pairs, type A Profibus DP polarised 2-wire RS485 interface, addressing 1...125, transmission-rate 9.6 kbit/s...12 Mbit/s, terminal block with 2 shielded twisted pairs, type A

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	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	Locked rotor Overload Phase unbalance Phase failure Earth-leakage protection Reverse polarity protection Load fluctuation Thermal protection Power factor variation Thermal overload protection Overload (long time)

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Network and machine diagnosis type	Phase fault and earth fault trip counters Trip history information Starting current and time Fault recording Waiting time after overload tripping Event recording Motor control command recording Running hours counter/operating time Trip context information Remaining operating time before 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 operating 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	Average current I _{avg} Earth-fault current Temperature Imbalance current Phase current I ₁ , I ₂ , I ₃ 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

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, con- forming 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

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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.2 Cm
Package 1 Width	10 Cm
Package 1 Length	13.6 Cm
Package 1 Weight	526 G
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15 Cm
Package 2 Width	30 Cm
Package 2 Length	40 Cm
Package 2 Weight	5.656 Kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
Halogen content performance	Halogen free plastic parts product

Contractual warranty

Warranty	18 months
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Product Life Status : **Commercialised**