



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	1.35...27 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	DeviceNet
Bus type	DeviceNet ISO 1198 1...64 125...500 kbit/s, terminal block 4 twisted shielded pairs cable

Complementary

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

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

	Thermal protection Locked rotor Load fluctuation Overload Phase unbalance
Network and machine diagnosis type	Trip history information Trip context information Running hours counter/operating time Remaining operating time before overload tripping Fault recording Waiting time after overload tripping Starting current and time Phase fault and earth fault trip counters Event recording Motor control command recording
Logic input number	6
Input current	3.1 mA 100 V 7.5 mA 240 V
Current state 0 guaranteed	Logic input 0...40 V <= 15 mA 25 ms
Current state 1 guaranteed	Logic input 79...264 V >= 2 mA 25 ms
Maximum output switching frequency	2 Hz
Load current	5 A 250 V AC logic output 5 A 30 V DC 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	Imbalance current Temperature Earth-fault current Average current I _{avg} 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	0.20 in (5.08 mm)
Connections - terminals	Control circuit connector 1 0.00...0.00 in ² (0.25...2.5 mm ²) AWG 24...AWG 14)flexible with cable end Control circuit connector 1 0.00...0.00 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.00...0.00 in ² (0.25...2.5 mm ²) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.00...0.00 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)solid without cable end Control circuit connector 2 0.00...0.00 in ² (0.2...1 mm ²) AWG 24...AWG 14)flexible with cable end Control circuit connector 2 0.00...0.00 in ² (0.2...1.5 mm ²) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.00...0.00 in ² (0.5...1.5 mm ²) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.00...0.00 in ² (0.2...1 mm ²) AWG 24...AWG 14)solid without cable end
Tightening torque	Control circuit 4.43...5.31 lbf.in (0.5...0.6 N.m) flat 0.12 in (3 mm)
Pollution degree	3
Electromagnetic compatibility	Electrostatic discharge, 3 8 kV air, 6 kV contact)EN/IEC 61000-4-2) Radiated RF fields, 3 10 V/m)EN/IEC 61000-4-3) Fast transients immunity test, level 3 2 kV)EN/IEC 61000-4-4) Fast transients immunity test, level 4 4 kV)EN/IEC 61000-4-4) Voltage dips and interruptions immunity test 70 %, 500 ms)EN/IEC 61000-4-11) Conducted RF disturbances 10 V)EN/IEC 61000-4-6) Surges 0.5 kV)EN/IEC 61000-4-5) Surges 1 kV)EN/IEC 61000-4-5) Surges 1 kV)EN/IEC 61000-4-5) Surges 2 kV)EN/IEC 61000-4-5) Surges 2 kV)EN/IEC 61000-4-5)

	Surges 4 kV)EN/IEC 61000-4-5) Surges 2 kV)EN/IEC 61000-4-5)
Width	3.58 in (91 mm)
Height	2.40 in (61 mm)
Depth	4.82 in (122.5 mm)
Net weight	1.17 lb(US) (0.53 kg)
Web services	Web server
Compatibility code	LTMR

Environment

Standards	EN 60947-4-1 IACS E10 UL 508 CSA C22.2 No 14 IEC 60947-4-1
Product certifications	LROS (Lloyds register of shipping) NOM GL C-Tick ATEX KERI DNV BV RINA UL RMRoS EAC CCC CSA ABS
Protective treatment	12 x 24 hour cycles EN/IEC 60068-2-30 48 h EN/IEC 60070-2-11 TH EN/IEC 60068
Fire resistance	1202 °F (650 °C) 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...176 °F (-40...80 °C)
Operating altitude	<= 2000 m without derating
Mechanical robustness	Vibrations mounted on symmetrical rail1 Gn, 5...300 Hz EN/IEC 60068-2-6 Vibrations plate mounted4 Gn, 5...300 Hz EN/IEC 60068-2-6 Shocks half sine wave acceleration15 Gn for 11 ms 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 Weight	18.55 oz (526 g)
Package 1 Height	2.91 in (7.4 cm)
Package 1 width	3.94 in (10 cm)
Package 1 Length	5.35 in (13.6 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Weight	12.19 lb(US) (5.53 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
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REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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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