

Product data sheet

Specifications



Motor Management main unit, TeSys Tera, ProfiNet, 4 DI and 3 DO, supply 100-240VAC/DC

LTMTPNFM

⚠️ **Launching in:** 30 October 2024

⚠️ **Coming soon**

Main

Range	TeSys
Product name	TeSys Tera
Device short name	LTMT
Product or component type	Motor controller
Device application	Equipment monitoring and control
[Us] rated supply voltage	100...240 V AC/DC 50/60 Hz
Current consumption	8...62.8 mA
Supply voltage limits	85...265 V AC/DC
Communication port protocol	PROFINET
Bus type	ProfiNet IO IEEE 802.3 0...159 10...100 Mbit/s, 2xRJ45 4 shielding pairs cable

Complementary

[Ui] rated insulation voltage	690 V AC IEC 60185
Short-circuit withstand	100 kA
Pollution degree	3
Overtoltage category	III
[Uimp] rated impulse withstand voltage	4 kV
Associated fuse rating	0.5 A gG control circuit

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

Protection type	<ul style="list-style-type: none"> Overload protection Stalled rotor Locked rotor Short-circuit Undercurrent Overcurrent Current unbalance Phase reversal Phase loss Earth fault protection internal Earth fault protection external Excessive starting time Max number of start Undervoltage Overvoltage Voltage unbalance Underfrequency Overfrequency Reacceleration Temperature protection Analog input protection Communication failure Fail to stop Under power Over power Power factor variation Anti-backspin timer Block output DI interlock protection
Network and machine diagnosis type	<ul style="list-style-type: none"> Motor statistics Motor status Event recording Running hours counter/operating time Number of starts and stops Running hours /stop hours counter Start curve showing motor start record Pre-alarms Trip history information Alarm counters
Logic input number	4
Input current	3 mA 100...240 V
Current state 0 guaranteed	Digital input 0...12 V 5 mA 10 ms
Current state 1 guaranteed	Digital input 85...265 V 5 mA 10 ms
maximum output switching frequency	2 Hz
Load current	10 A 250 V AC/DC 5 A 30 V DC
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	<ul style="list-style-type: none"> Thermal memory Line, phase and average current Line to line and average voltage Motor temperature input Ground fault current I_g Active and reactive power Active and reactive energy Frequency Total voltage harmonic distortion THD (V) Total voltage harmonic distortion THD (U) Total current harmonic distortion THD (I) Phase sequence

Measurement accuracy	1 % current 0.3...3 A) 1 % current 2.5...25 A) 3 % current 7...70 A) 3 % current 10...100 A) 1 % voltage 110...690 V) +/- 2.5 % earth fault current external measurement +/- 3...5 % earth fault current internal measurement current > 0.03 A in the 0.3...3 A range) +/- 3...5 % earth fault current internal measurement current > 0.25 A in the 2.5...25 A range) +/- 3...5 % earth fault current internal measurement current > 0.7 A in the 7...70 A range) +/- 3...5 % earth fault current internal measurement current > 1 A in the 10...100 A range) +/- 2 % temperature +/- 2 % THD measurement +/- 3...6 % power factor +/- 2...5 % active and reactive energy +/- 30 min/year internal clock
Connection pitch	0.3 in (7.5 mm) for supply voltage 0.2 in (5.0 mm) for others
Connections - terminals	Control circuit connector 1 0.0003...0.004 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.0003...0.002 in ² (0.2...1.5 mm ²) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.0004...0.004 in ² (0.25...2.5 mm ²) AWG 24...AWG 14)flexible with ferrule with cable end Control circuit connector 2 0.0003...0.002 in ² (0.2...1.5 mm ²) AWG 24...AWG 14)flexible with ferrule with cable end Control circuit connector 1 0.0004...0.004 in ² (0.25...2.5 mm ²) AWG 24...AWG 14)flexible stranded with cable end Control circuit connector 2 0.0003...0.002 in ² (0.2...1.5 mm ²) AWG 24...AWG 14)flexible stranded with cable end Control circuit connector 1 0.0003...0.004 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)solid with cable end Control circuit connector 2 0.0003...0.002 in ² (0.2...1 mm ²) AWG 24...AWG 14)solid with cable end
Width	4.4 in (112 mm)
Height	1.8 in (45 mm)
Depth	3.5 in (90 mm)
Web services	Web server

Environment

Standards	EN/IEC 60947-4-1 UL/CSA 60947-4-1
Product certifications	UL IEC cUL
Fire resistance	1202 °F (650 °C) IEC 60947-1 1760 °F (960 °C) UL 94
Ambient air temperature for operation	-4...158 °F (-20...70 °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 60068-2-27 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 Height	2.6 in (6.5 cm)
Package 1 Width	4.1 in (10.5 cm)
Package 1 Length	4.3 in (11 cm)
Package 1 Weight	10.4 oz (295.5 g)
Unit Type of Package 2	S01
Number of Units in Package 2	4
Package 2 Height	5.9 in (15 cm)
Package 2 Width	5.9 in (15 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	3.578 lb(US) (1.623 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	192
Package 3 Height	413.4 in (1050 cm)
Package 3 Width	26.4 in (67 cm)
Package 3 Length	34.3 in (87 cm)
Package 3 Weight	151.537 lb(US) (68.736 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	794 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	12 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	782 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.7 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	0be6a459-9102-4f27-8f16-efc9583f3f4e
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
Halogen content performance	Halogen free plastic parts product
PVC free	Yes
Silicon free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	0
Circularity Profile	End of Life Information
Take-back	Nej
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Technical Illustration

Assembly's dimensions

mm
[in]

