

# Product datasheet

Specifications



## Expansion Module, TeSys Tera, 2 Analog Inputs, 1 Analog Output, for Motor Management

LTMTAN21

EAN Code: 3606482185067

### Main

Range	TeSys
Product name	TeSys Tera
Device short name	LTMT
Product or component type	Extension module
Device application	Equipment monitoring and control
Range compatibility	TeSys TeSys Tera motor controller

### 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
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	0.8 kV supply, inputs and outputs conforming to EN/IEC 60947-4-1
Protection type	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
maximum output switching frequency	2 Hz
maximum operating rate	1800 cyc/h
Contacts type and composition	Without

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

<b>Measurement accuracy</b>	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 +/- 2.5 % earth fault current external measurement (current > 0.03 A in the 0.3...3 A range) +/- 3...5 % earth fault current internal measurement (current > 0.03 A in the 0.3...3 A range) +/- 30 min/year internal clock (current > 0.25 A in the 2.5...25 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 +/- 2...5 % active and reactive energy +/- 3...6 % power factor
<b>Mounting mode</b>	Flush-mounted
<b>Connection pitch</b>	5.0 mm
<b>Connections - terminals</b>	Control circuit: connector 1 cable(s) 0.25...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible with cable end Control circuit: connector 1 cable(s) 0.2...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.25...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.2...2.5 mm <sup>2</sup> (AWG 24...AWG 14) solid without cable end Control circuit: connector 2 cable(s) 0.2...1 mm <sup>2</sup> (AWG 24...AWG 14) flexible with cable end Control circuit: connector 2 cable(s) 0.2...1.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.5...1.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.2...1 mm <sup>2</sup> (AWG 24...AWG 14) solid without cable end
<b>Input type</b>	Analog x2 inputs,
<b>Output type</b>	1 x analog
<b>Electromagnetic compatibility</b>	Electrostatic discharge, level 3, 8 kV air, 4 kV contact Fast transient bursts, level 3, 2 kV Immunity to electromagnetic interference, level 3, 10 V/m Immunity to shock waves, level 3, 2 kV
<b>Depth</b>	90 mm
<b>Height</b>	112 mm
<b>Width</b>	22.5 mm
<b>Tightening torque</b>	Control circuit: 0.5...0.6 N.m flat screwdriver 3 mm
<b>Tightening torque</b>	Control circuit: 0.5 N.m - with screwdriver flat 3 mm

## Environment

<b>Product certifications</b>	IEC UL cUL
<b>IP degree of protection</b>	IP20
<b>Standards</b>	EN/IEC 60947-4-1 UL/CSA 60947-4-1
<b>Fire resistance</b>	650 °C conforming to EN/IEC 60695-2-12 960 °C conforming to UL 94
<b>Protective treatment</b>	12 x 24 hour cycles conforming to EN/IEC 60068-2-30

<b>Ambient air temperature for storage</b>	-40...80 °C
<b>Operating altitude</b>	<= 2000 m without derating
<b>Mechanical robustness</b>	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
<b>Ambient air temperature for operation</b>	-20...70 °C

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	5.7 cm
<b>Package 1 Width</b>	10 cm
<b>Package 1 Length</b>	11 cm
<b>Package 1 Weight</b>	188 g
<b>Unit Type of Package 2</b>	S01
<b>Number of Units in Package 2</b>	12
<b>Package 2 Height</b>	15 cm
<b>Package 2 Width</b>	15 cm
<b>Package 2 Length</b>	40 cm
<b>Package 2 Weight</b>	2.697 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	576
<b>Package 3 Height</b>	1050 cm
<b>Package 3 Width</b>	76 cm
<b>Package 3 Length</b>	96 cm
<b>Package 3 Weight</b>	120.288 kg

## Contractual warranty

<b>Warranty (in months)</b>	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	11 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	5 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	6 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	B094adb3-6376-4325-b953-b1316706b822
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
Halogen-free status	Halogen free plastic parts product
PVC free	Yes
Silicone-free	Yes

## Use Longer




### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	2
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins



Technical Illustration

Wiring diagram

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