

Product datasheet

Specifications



Expansion Module, TeSys Tera, Digital 4 Inputs 2 Outputs AC, Inputs 100 to 240VAC/DC, for Motor Management

LTMTIN42FM

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
Supply	Via the controller

Complementary

[Ui] rated insulation voltage	690 V conforming to EN/IEC 60947-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	4 kV current or voltage measurement circuit conforming to EN/IEC 60947-4-1 0.8 kV supply, inputs and outputs conforming to EN/IEC 60947-4-1
Protection type	Earth fault protection external Temperature protection Analog input protection DI interlock protection
Current state 0 guaranteed	Digital input: 0...60 V and 5 mA for 10 ms
Current state 1 guaranteed	Digital input: 85...265 V and 5 mA for 10 ms
maximum output switching frequency	2 Hz
Load current	10 A at 250 V AC/DC 5 A at 30 V DC
Short-circuit withstand	100 kA conforming to EN/IEC 60947-4-1
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

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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 +/- 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
Mounting mode	Flush-mounted
Connection pitch	5.0 mm
Connections - terminals	Control circuit: connector 1 cable(s) 0.2...2.5 mm² (AWG 24...AWG 14) flexible stranded without cable end Control circuit: connector 2 cable(s) 0.2...1.5 mm² (AWG 24...AWG 16) flexible stranded without cable end Control circuit: connector 1 cable(s) 0.2...2.5 mm² (AWG 24...AWG 14) solid without cable end Control circuit: connector 2 cable(s) 0.2...1.0 mm² (AWG 24...AWG 18) solid without cable end Control circuit: connector 1 cable(s) 0.25...2.5 mm² (AWG 24...AWG 14) flexible stranded with cable end with insulation Control circuit: connector 2 cable(s) 0.5...1.5 mm² (AWG 20...AWG 16) flexible stranded with cable end with insulation Control circuit: connector 1 cable(s) 0.25...2.5 mm² (AWG 24...AWG 14) flexible stranded with cable end without insulation Control circuit: connector 2 cable(s) 0.2...1.0 mm² (AWG 24...AWG 18) flexible stranded with cable end without insulation
Input type	Digital input x4 inputs,
Output type	2 xdigital output
Permissible power	480 VA (AC-15), Ie = 2 A, 1800 cycles (output) 30 W (DC-13), Ie = 1.25 A, 1800 cycles (output)
Electromagnetic compatibility	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
Depth	120.7 mm
Height	61 mm
Width	45 mm
Tightening torque	Control circuit: 0.5 N.m - with screwdriver flat 3 mm

Environment

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

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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.7 cm
Package 1 Width	10 cm
Package 1 Length	11 cm
Package 1 Weight	188 g
Unit Type of Package 2	S01
Number of Units in Package 2	12
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	2.697 kg
Unit Type of Package 3	P06
Number of Units in Package 3	576
Package 3 Height	1050 cm
Package 3 Width	70 cm
Package 3 Length	90 cm
Package 3 Weight	120.288 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	18 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	12 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]	5 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	028013af-ee08-4e0c-8da5-e3657c39ba0a
REACH Regulation	REACH Declaration
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

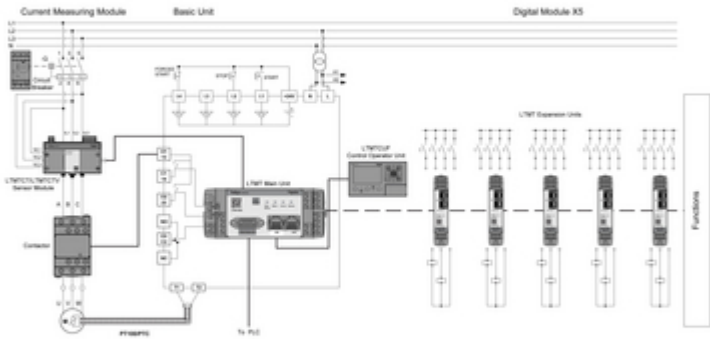


Repack and remanufacture

Recyclability potential, in %	1
End of life manual availability	End of Life Information
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



Technical Illustration

Assembly's dimensions

