

# Product data sheet

Specifications



## Expansion Module, TeSys Tera, 6 Digital Inputs AC, Inputs 100 to 240VAC/DC, for Motor Management

LTMTIN60FM

⚠️ Launching in: 30 June 2024

⚠️ Coming soon

### 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 EN/IEC 60947-1 690 V CSA C22.2 No 14 690 V UL 508
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	4 kV current or voltage measurement circuit EN/IEC 60947-4-1 0.8 kV supply, inputs and outputs 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

Current state 0 guaranteed	Digital input 0...60 V 5 mA 10 ms
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<b>Current state 1 guaranteed</b>	Digital input 85...265 V 5 mA 10 ms
<b>maximum output switching frequency</b>	2 Hz
<b>Load current</b>	10 A 250 V AC/DC 5 A 30 V DC
<b>Short-circuit withstand</b>	100 kA conforming to EN/IEC 60947-4-1
<b>maximum operating rate</b>	1800 cyc/h
<b>Contacts type and composition</b>	Without
<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) +/- 3...5 % earth fault current internal measurement current > 0.25 A in the 2.5...25 A range) +/- 30 min/year internal clock current > 0.7 A in the 7...70 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>	0.2 in (5.0 mm)
<b>Connections - terminals</b>	Control circuit connector 1 0.0004...0.004 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible with cable end Control circuit connector 1 0.0003...0.004 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.0004...0.004 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.0003...0.004 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)solid without cable end Control circuit connector 2 0.0003...0.002 in <sup>2</sup> (0.2...1 mm <sup>2</sup> ) AWG 24...AWG 14)flexible with cable end Control circuit connector 2 0.0003...0.002 in <sup>2</sup> (0.2...1.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.0008...0.002 in <sup>2</sup> (0.5...1.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.0003...0.002 in <sup>2</sup> (0.2...1 mm <sup>2</sup> ) AWG 24...AWG 14)solid without cable end
<b>Input type</b>	Digital input x6
<b>Permissible power</b>	480 VA AC-15), I <sub>e</sub> = 2 A, 500000 cycles output) 30 W DC-13), I <sub>e</sub> = 1.25 A, 500000 cycles output)
<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>	3.5 in (90 mm)
<b>Height</b>	4.4 in (112 mm)
<b>Width</b>	0.9 in (22.5 mm)
<b>Tightening torque</b>	Control circuit: 4.4...5.3 lbf.in (0.5...0.6 N.m) flat screwdriver 0.1 in (3 mm)
<b>Tightening torque</b>	Control circuit 4.4 lbf.in (0.5 N.m) flat 0.1 in (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>	1202 °F (650 °C) EN/IEC 60695-2-12 1760 °F (960 °C) UL 94
<b>Protective treatment</b>	12 x 24 hour cycles EN/IEC 60068-2-30
<b>Ambient air temperature for storage</b>	-40...176 °F (-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 EN/IEC 60068-2-27 Vibrations mounted on symmetrical rail 1 Gn, 5...300 Hz EN/IEC 60068-2-6 Vibrations plate mounted 4 Gn, 5...300 Hz EN/IEC 60068-2-6
<b>Ambient air temperature for operation</b>	-4...158 °F (-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>	2.2 in (5.7 cm)
<b>Package 1 Width</b>	3.9 in (10 cm)
<b>Package 1 Length</b>	4.3 in (11 cm)
<b>Package 1 Weight</b>	6.6 oz (188 g)
<b>Unit Type of Package 2</b>	S01
<b>Number of Units in Package 2</b>	12
<b>Package 2 Height</b>	5.9 in (15 cm)
<b>Package 2 Width</b>	5.9 in (15 cm)
<b>Package 2 Length</b>	15.7 in (40 cm)
<b>Package 2 Weight</b>	5.946 lb(US) (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>	413.4 in (1050 cm)
<b>Package 3 Width</b>	28.3 in (72 cm)
<b>Package 3 Length</b>	36.2 in (92 cm)
<b>Package 3 Weight</b>	265.190 lb(US) (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	33 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	15 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]	18 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 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	028013af-ee08-4e0c-8da5-e3657c39ba0a
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 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

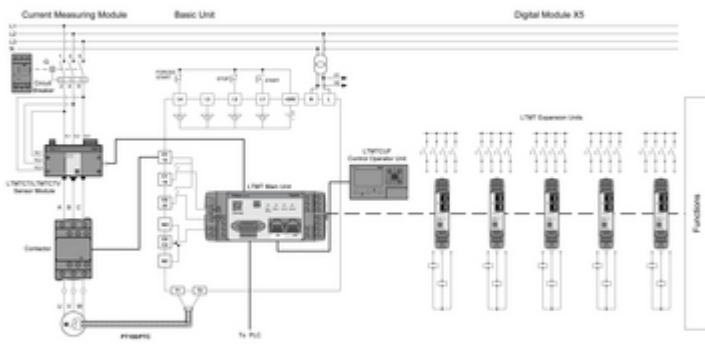
Recyclability potential, in %	1
Circularity Profile	<a href="#">End of Life Information</a>
Take-back	Nej
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins



Technical Illustration

Wiring diagram

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Technical Illustration

Assembly's dimensions

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