Product data sheet

Specifications

Expansion Module, TeSys Tera, 6 Digital Inputs DC, Inputs 24VDC, for Motor Management

LTMTIN60BD

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	0.8 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...12 V 5 mA 10 ms

Current state 1 guaranteed	Digital input 18...30 V 5 mA 10 ms
maximum output switching frequency	2 Hz
Load current	10 A 250 V AC/DC 5 A 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
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) +/- 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
Mounting mode	Flush-mounted
Connection pitch	0.2 in (5.0 mm)
Connections - terminals	Control circuit connector 2 0.0004…0.004 in² (0.25…2.5 mm²) AWG 24...AWG 14)flexible with cable end Control circuit connector 1 0.0003…0.004 in² (0.2…2.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.0004…0.004 in² (0.25…2.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.0003…0.004 in² (0.2…2.5 mm²) AWG 24...AWG 14)solid without cable end Control circuit connector 2 0.0003…0.002 in² (0.2…1 mm²) AWG 24...AWG 14)flexible with cable end Control circuit connector 2 0.0003…0.002 in² (0.2…1.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.0008…0.002 in² (0.5…1.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.0003…0.002 in² (0.2…1 mm²) AWG 24...AWG 14)solid without cable end
Input type	Digital input x6
Permissible power	480 VA AC-15), Ie = 2 A, 500000 cycles output) 30 W DC-13), Ie = 1.25 A, 500000 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	3.5 in (90 mm)
Height	4.4 in (112 mm)
Width	0.9 in (22.5 mm)
Tightening torque	Control circuit: 4.4…5.3 lbf.in (0.5…0.6 N.m) flat screwdriver 0.1 in (3 mm)
Tightening torque	Control circuit 4.4 lbf.in (0.5 N.m) flat 0.1 in (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	1202 °F (650 °C) EN/IEC 60695-2-12 1760 °F (960 °C) UL 94
Protective treatment	12 x 24 hour cycles EN/IEC 60068-2-30
Ambient air temperature for storage	-40…176 °F (-40…80 °C)
Operating altitude	<= 2000 m without derating
Mechanical robustness	Shocks half sine wave acceleration15 Gn for 11 ms EN/IEC 60068-2-27 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
Ambient air temperature for operation	-4…158 °F (-20…70 °C)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.2 in (5.7 cm)
Package 1 Width	3.9 in (10 cm)
Package 1 Length	4.3 in (11 cm)
Package 1 Weight	6.6 oz (188 g)
Unit Type of Package 2	S01
Number of Units in Package 2	12
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	5.946 lb(US) (2.697 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	576
Package 3 Height	413.4 in (1050 cm)
Package 3 Width	28.7 in (73 cm)
Package 3 Length	36.6 in (93 cm)
Package 3 Weight	265.190 lb(US) (120.288 kg)

Contractual warranty

Warranty (in months)	18

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	**Product Environmental Profile**

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	**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**

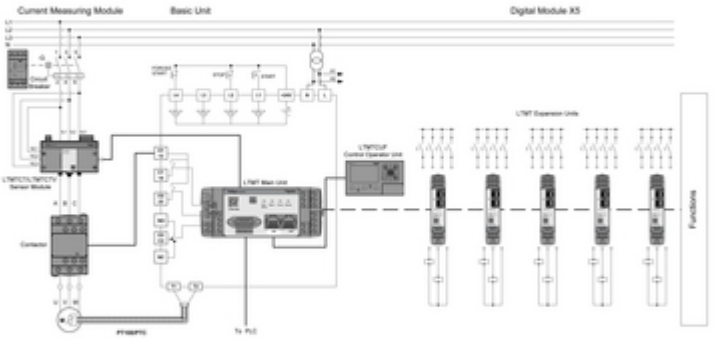
Use Again

Repack and remanufacture

Recyclability potential, in %	**1**
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

Wiring diagram



Technical Illustration

Assembly's dimensions