

Product datasheet

Specifications



Sensor Module, TeSys Tera, CTVT Horizontal 10 to 100A, 690V, W110mm, inbuilt Input for Ground Fault CT, Motor Management

LTMTCTV100T

Main

Range	TeSys
Product name	TeSys Tera
Device short name	LTMT
Product or component type	Sensor
Device application	Motor protection

Complementary

[UI] rated insulation voltage	690 V conforming to EN/IEC 60947-1
Overtoltage category	III
Pollution degree	3
[In] rated current	10...100 A at 60...690 V, AC 45...65 Hz
[Uimp] rated impulse withstand voltage	6 kV current or voltage measurement circuit
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 Overtoltage Voltage unbalance Underfrequency Overfrequency Reacceleration Communication failure Fail to stop Under power Over power Power factor variation Anti-backspin timer Block output
Short-circuit withstand	100 kA conforming to EN/IEC 60947-4-1
Measurement accuracy	+/- 3 % voltage +/- 3 % current
Mounting mode	Horizontal
Connection pitch	5.0 mm
Connections - terminals	Voltage circuit: connector0.2...2.5 mm ² (AWG 12...AWG 24)

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

Input type	Analog
Sensor type	Current sensor Voltage sensor
Electromagnetic compatibility	Immunity to radiated electromagnetic interference (in open air), level 3, 10 Vrms, conforming to EN/IEC 61000-4-3 Resistance to electrostatic discharge (in open air), level 3, 8 kV, conforming to EN/IEC 61000-4-2 Digital output: resistance to electrostatic discharge (on contact), level 3, 6 kV, conforming to EN/IEC 61000-4-2 Digital output: immunity to shock waves (common mode), 4 kV, conforming to EN/IEC 61000-4-5 24 V DC sensors: immunity to shock waves (common mode), 1 kV, conforming to EN/IEC 61000-4-5 100...240 V inputs: immunity to shock waves (common mode), 2 kV, conforming to EN/IEC 61000-4-5 Communication: immunity to shock waves (common mode), 2 kV, conforming to EN/IEC 61000-4-5 Temperature sensor: immunity to shock waves (common mode), 1 kV, conforming to EN/IEC 61000-4-5 Digital output: immunity to shock waves (serial mode), 2 kV, conforming to EN/IEC 61000-4-5 24 V DC sensors: immunity to shock waves (serial mode), level 3, 1 kV, conforming to EN/IEC 61000-4-5 100...240 V inputs: immunity to shock waves (serial mode), 1 kV, conforming to EN/IEC 61000-4-5 Temperature sensor: immunity to shock waves (serial mode), 0.5 kV, conforming to EN/IEC 61000-4-5 Immunity to radiated radio-electrical interference, level 3, 10 Vrms, conforming to EN/IEC 61000-4-6
Depth	60.5 mm
Height	74.7 mm
Width	110.3 mm
Tightening torque	Control circuit: 0.5 N.m - with screwdriver flat 3 mm

Environment

Product certifications	IEC UL cUL
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	10 cm
Package 1 Width	9.5 cm
Package 1 Length	14.4 cm

Package 1 Weight	350 g
Unit Type of Package 2	S01
Number of Units in Package 2	2
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	1.141 kg
Unit Type of Package 3	P06
Number of Units in Package 3	96
Package 3 Height	1050 cm
Package 3 Width	89 cm
Package 3 Length	109 cm
Package 3 Weight	45.6 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	16 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
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]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	10 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 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	91deacc6-c4f3-4ba8-a61d-c6cf885fa9eb
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

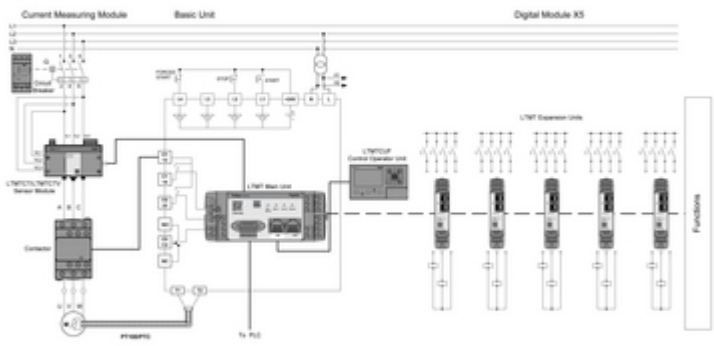


Repack and remanufacture

Recyclability potential, in %	10
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

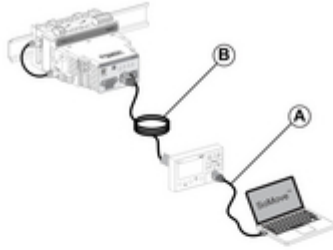
Technical Illustration

Wiring diagram



Technical Illustration

User interface / product ON

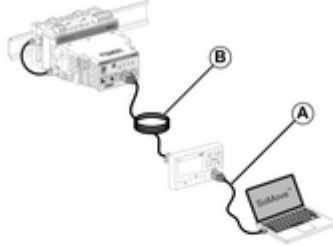


A. USB to RS485 interface cable
B. IMA Cable

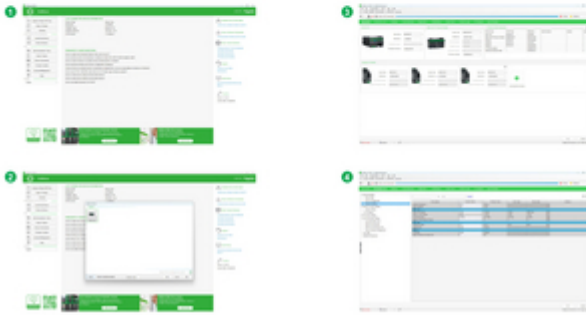


Technical Illustration

User interface / product ON



A. USB to RS485 Interface Cable
B. HMI Cable



Technical Illustration

Assembly's dimensions

