

# Product datasheet

Specifications



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

LTMTCT100T

### 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
Overvoltage 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 Excessive starting time Max number of start Temperature protection Communication failure Fail to stop Anti-backspin timer Block output DI interlock protection
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: connector 0.2...2.5 mm <sup>2</sup> (AWG 12...AWG 24)
Input type	Analog
Sensor type	Current sensor

Excluding VAT, FCA Jabal Ali & amp; are subject to change – check with your local distributor.

<b>Electromagnetic compatibility</b>	<p>Immunity to radiated electromagnetic interference (in open air), level 3, 10 Vrms, conforming to EN/IEC 61000-4-3</p> <p>Resistance to electrostatic discharge (in open air), level 3, 8 kV, conforming to EN/IEC 61000-4-2</p> <p>Digital output: resistance to electrostatic discharge (on contact), level 3, 6 kV, conforming to EN/IEC 61000-4-2</p> <p>Digital output: immunity to shock waves (common mode), 4 kV, conforming to EN/IEC 61000-4-5</p> <p>24 V DC sensors: immunity to shock waves (common mode), 1 kV, conforming to EN/IEC 61000-4-5</p> <p>100...240 V inputs: immunity to shock waves (common mode), 2 kV, conforming to EN/IEC 61000-4-5</p> <p>Communication: immunity to shock waves (common mode), 2 kV, conforming to EN/IEC 61000-4-5</p> <p>Temperature sensor: immunity to shock waves (common mode), 1 kV, conforming to EN/IEC 61000-4-5</p> <p>Digital output: immunity to shock waves (serial mode), 2 kV, conforming to EN/IEC 61000-4-5</p> <p>24 V DC sensors: immunity to shock waves (serial mode), level 3, 1 kV, conforming to EN/IEC 61000-4-5</p> <p>100...240 V inputs: immunity to shock waves (serial mode), 1 kV, conforming to EN/IEC 61000-4-5</p> <p>Temperature sensor: immunity to shock waves (serial mode), 0.5 kV, conforming to EN/IEC 61000-4-5</p> <p>Immunity to radiated radio-electrical interference, level 3, 10 Vrms, conforming to EN/IEC 61000-4-6</p>
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<b>Depth</b>	60.5 mm
<b>Height</b>	74.7 mm
<b>Width</b>	110.3 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>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>	9.8 cm
<b>Package 1 Width</b>	10.3 cm
<b>Package 1 Length</b>	14.7 cm
<b>Package 1 Weight</b>	350 g
<b>Unit Type of Package 2</b>	S01

<b>Number of Units in Package 2</b>	2
<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>	1.141 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	96
<b>Package 3 Height</b>	1050 cm
<b>Package 3 Width</b>	86 cm
<b>Package 3 Length</b>	106 cm
<b>Package 3 Weight</b>	45.6 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	16 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]	10 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	91deacc6-c4f3-4ba8-a61d-c6cf885fa9eb
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

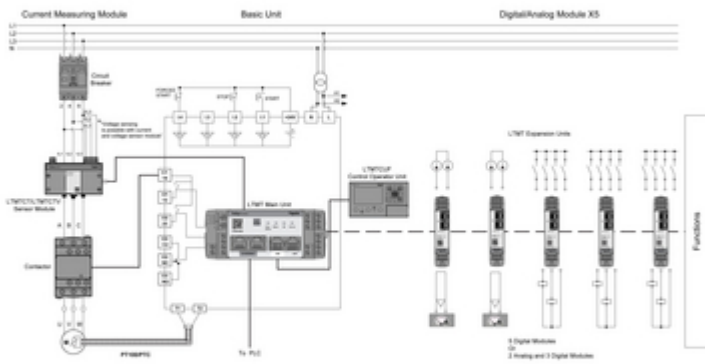
Recyclability potential, in %	10
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	Nej
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins



Technical Illustration

Wiring diagram

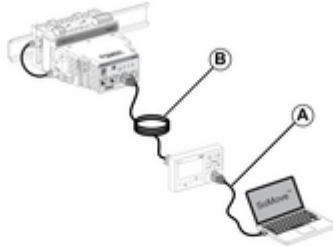
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Technical Illustration

User interface / product ON

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A. USB to RS485 Interface Cable  
B. HMI Cable



Technical Illustration

Assembly's dimensions

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