Product data sheet
Characteristics

LTMTCTV25UT
Sensor Module, TeSys Tera, CTVT Horizontal 2.5 to 25A, 690V, W110mm, inbuilt I/P for ZCT, SIDE Connector, Motor Management



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	2.5…25 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 Overvoltage 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	+/- 1 % voltage +/- 1 % current
Mounting mode	Horizontal
Connection pitch	5.0 Mm
Connections - terminals	Voltage circuit: connector0.2…2.5 mm² (12 AWG...24 AWG)

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 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/IE 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- 100...240 V inputs: immunity to shock waves (common mode), 2 kV, conforming to EN/IEC 61000 Communication: immunity to shock waves (common mode), 2 kV, conforming to EN/IEC 61000-4- Temperature sensor: immunity to shock waves (common mode), 1 kV, conforming to EN/IEC 610 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 61 100...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 6100 Immunity to radiated radio-electrical interference, level 3, 10 Vrms, conforming to EN/IEC 61000-4
Depth	60.5 Mm
Height	63.9 Mm
Width	129.8 Mm
Tightening torque	Control circuit: 0.5 N.m - with screwdriver flat 3 mm

Environment

Product certifications	IEC[RETURN]UL[RETURN]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	6.5 Cm
Package 1 Width	7.5 Cm
Package 1 Length	14 Cm
Package 1 Weight	213 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	867 G
Unit Type of Package 3	P06
Number of Units in Package 3	96
Package 3 Height	1050 Cm
Package 3 Width	94 Cm
Package 3 Length	114 Cm
Package 3 Weight	32.448 Kg

Offer Sustainability

Recyclability potential, in %	10
Total lifecycle Carbon footprint	16 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	5.028832754342432
Carbon footprint of the manufacturing phase [A1 to A3]	5 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.037006990074441685
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.15033409429280395
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	10.2528
Carbon footprint of the use phase [B2, B3, B4, B6]	10 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.4178849627791563
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	16
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	91deacc6-c4f3-4ba8-a61d-c6cf885fa9eb
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
Halogen-free status	Halogen free plastic parts product
PVC free	Yes
Silicone-free	Yes
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised