Product datasheet

Specifications





Motor controller, TeSys T, Motor Management, CANopen, 6 logic inputs, 3 relay logic outputs, 5 to 100A, 100 to 240VAC

LTMR100CFM

Main

Range	TeSys	
Product name	TeSys T	
Device short name	LTMR	
product or component type	Motor controller	
Device application	Equipment monitoring and control	
measurement current	5100 A	
[Us] rated supply voltage	100240 V AC 50/60 Hz	
Current consumption	862.8 mA	
Supply voltage limits	93.5264 V AC	
Communication port protocol	CANopen	
Bus type	CANopen ISO 1198 interface, addressing 1127, transmission rate 101000 kbit/s, SUB-D 9 with 4 twisted shielded pairs cable CANopen ISO 1198 interface, addressing 1127, transmission rate 101000 kbit/s, terminal block with 4 twisted shielded pairs cable	

Complementary

[Ui] rated insulation voltage	690 V conforming to EN/IEC 60947-1 690 V conforming to CSA C22.2 No 14 690 V conforming to UL 508	
[Uimp] rated impulse withstand voltage	4 kV supply, inputs and outputs conforming to EN/IEC 60947-4-1 6 kV current or voltage measurement circuit conforming to EN/IEC 60947-4-1 0.8 kV communication circuit conforming to EN/IEC 60947-4-1	
Short-circuit withstand	100 kA conforming to EN/IEC 60947-4-1	
Associated fuse rating	4 A gG for output 0.5 A gG for control circuit	
Protection type	Thermal protection Locked rotor Phase failure Earth-leakage protection Overload (long time) Power factor variation Phase unbalance Load fluctuation Thermal overload protection Reverse polarity protection Overload	

Network and machine diagnosis type	Event recording
AL: -	Trip history information Starting current and time
	Running hours counter/operating time
	Motor control command recording
	Remaining operating time before overload tripping
	Fault recording Phase fault and earth fault trip counters
	Waiting time after overload tripping
	Trip context information
Logic input number	6
Input current	3.1 mA at 100 V 7.5 mA at 240 V
Current state 0 guaranteed	Logic input: 040 V and <= 15 mA for 25 ms
Current state 1 guaranteed	Logic input: 79264 V and >= 2 mA for 25 ms
maximum output switching frequency	2 Hz
Load current	5 A at 250 V AC for logic output
	5 A at 30 V DC for logic output
Permissible power	480 VA (AC-15), le = 2 A, 500000 cycles (output)
	30 W (DC-13), le = 1.25 A, 500000 cycles (output)
Maximum operating rate	1800 cyc/h
Contacts type and composition	1 NO + 1 NC fault signal 3 NO
Metering type	Earth-fault current
	Phase current I1, I2, I3 RMS
	Imbalance current Temperature
	Average current lavg
Measurement accuracy	515 % earth fault current internal measurement
-	1 % voltage (100830 V)
	3 % power factor
	5 % earth fault current external measurement
	+/- 30 min/year internal clock 0,02 temperature
	5 % active and reactive power
	0,02 current
Overvoltage category	III
Connection pitch	5.08 mm
Connections - terminals	Control circuit: connector 1 cable(s) 0.252.5 mm² (AWG 24AWG 14) flexible with
	cable end Control circuit: connector 1 coble(c) 0.2 \sim 2.5 mm ² (AWC 24 AWC 14) floxible
	Control circuit: connector 1 cable(s) 0.22.5 mm ² (AWG 24AWG 14) flexible without cable end
	Control circuit: connector 1 cable(s) 0.252.5 mm ² (AWG 24AWG 14) flexible
	without cable end
	Control circuit: connector 1 cable(s) 0.22.5 mm ² (AWG 24AWG 14) solid without
	cable end Control circuit: connector 2 cable(s) 0.21 mm ² (AWG 24AWG 14) flexible with
	cable end
	Control circuit: connector 2 cable(s) 0.21.5 mm ² (AWG 24AWG 14) flexible
	without cable end Control circuit: connector 2 cable(s) 0.51.5 mm ² (AWG 24AWG 14) flexible
	without cable end
	Control circuit: connector 2 cable(s) 0.21 mm ² (AWG 24AWG 14) solid without
	cable end
Tightening torque	
	Control circuit: 0.50.6 N.m flat screwdriver 3 mm

Electromagnetic compatibility	Electrostatic discharge, 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2 Radiated RF fields, 3, 10 V/m, conforming to EN/IEC 61000-4-3 Fast transients immunity test (other circuits), level 3, 2 kV, conforming to EN/IEC 61000-4-4 Fast transients immunity test (on supply and relay outputs), level 4, 4 kV, conforming to EN/IEC 61000-4-4 Voltage dips and interruptions immunity test, 70 %, 500 ms, conforming to EN/IEC 61000-4-11 Conducted RF disturbances, 10 V, conforming to EN/IEC 61000-4-6 Temperature sensor: surges (serial mode), 0.5 kV, conforming to EN/IEC 61000-4-5 Control circuit: surges (common mode), 1 kV, conforming to EN/IEC 61000-4-5 Communication: surges (common mode), 2 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (common mode), 4 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (common mode), 4 kV, conforming to EN/IEC 61000-4-5 Control circuit: surges (common mode), 2 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (common mode), 4 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (common mode), 4 kV, conforming to EN/IEC 61000-4-5	
Width	91 mm	
Height	61 mm	
Depth	122.5 mm	
net weight	0.53 kg	
Web services	Web server	
Compatibility code	LTMR	

Environment

Standards	IEC 60947-4-1 CSA C22.2 No 14 IACS E10 EN 60947-4-1 UL 508	
Product certifications	LROS (Lloyds register of shipping) DNV UL EAC GL CCC BV ABS KERI ATEX NOM RINA RMRoS C-Tick CSA	
Protective treatment	12 x 24 hour cycles conforming to EN/IEC 60068-2-30 48 h conforming to EN/IEC 60070-2-11 TH conforming to EN/IEC 60068	
Fire resistance	650 °C conforming to EN/IEC 60695-2-12 960 °C conforming to UL 94	
Ambient air temperature for operation	-2060 °C	
ambient air temperature for storage	-4080 °C	
Operating altitude	<= 2000 m without derating	
Mechanical robustness	Vibrations mounted on symmetrical rail: 1 Gn, 5300 Hz conforming to EN/IEC 60068-2-6 Vibrations plate mounted: 4 Gn, 5300 Hz conforming to EN/IEC 60068-2-6 Shocks half sine wave acceleration: 15 Gn for 11 ms conforming to EN/IEC 60068-2-27	
IP degree of protection	IP20	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.0 cm
Package 1 Width	10.0 cm
Package 1 Length	13.5 cm
Package 1 Weight	534.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.685 kg

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free
 Rohs Exemption Information Yes
 Halogen Free Plastic Parts Product
 Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information