Product datasheet

Specification





Motor controller, TeSys T, Motor Management, Profibus DP, 6 logic inputs, 3 logic outputs, 1.35 to 27A, 100 to 240VAC

LTMR27PFM

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	1.3527 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	Profibus DP
Bus type	Profibus DP polarised 2-wire RS485 interface, addressing 1125, transmission rate 9.6 kbit/s12 Mbit/s, SUB-D 9 with 2 shielded twisted pairs, type A Profibus DP polarised 2-wire RS485 interface, addressing 1125, transmission rate 9.6 kbit/s12 Mbit/s, terminal block with 2 shielded twisted pairs, type A

Complementary

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[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	Load fluctuation Thermal protection Locked rotor Reverse polarity protection Phase unbalance Earth-leakage protection Overload (long time) Thermal overload protection Overload Phase failure Power factor variation

Network and machine diagnosis type	Phase fault and earth fault trip counters Trip history information Trip context information Motor control command recording Running hours counter/operating time Waiting time after overload tripping Remaining operating time before overload tripping Fault recording Starting current and time Event recording
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	Average current lavg Temperature Earth-fault current Phase current I1, I2, I3 RMS Imbalance current
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 1 % current 5 % active and reactive power
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 cable(s) 0.22.5 mm² (AWG 24AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.252.5 mm² (AWG 24AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.22.5 mm² (AWG 24AWG 14) solid without cable end Control circuit: connector 2 cable(s) 0.21 mm² (AWG 24AWG 14) flexible with cable end Control circuit: connector 2 cable(s) 0.21.5 mm² (AWG 24AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.51.5 mm² (AWG 24AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.51.5 mm² (AWG 24AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.21 mm² (AWG 24AWG 14) solid without cable end
Tightening torque	Control circuit: 0.50.6 N.m flat screwdriver 3 mm
Pollution degree	3

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
	Temperature sensor: surges (common mode), 1 kV, conforming to EN/IEC 61000-4-5
	Control circuit: surges (serial 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 (serial 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
IAP -IAI-	Control circuit: surges (common mode), 2 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	EN 60947-4-1
	UL 508
	IACS E10 CSA C22.2 No 14
	IEC 60947-4-1
Product certifications	BV
	CSA
	CCC
	EAC
	NOM
	KERI
	ABS RMRoS
	LROS (Lloyds register of shipping)
	UL
	RINA
	DNV
	GL C-Tick
	ATEX
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
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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
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Packing Units

IP degree of protection

IP20

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.2 cm
Package 1 Width	10.0 cm
Package 1 Length	13.6 cm
Package 1 Weight	525.0 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	5.586 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free
②	Halogen Free Plastic Parts Product

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