Product datasheet

Specifications





Motor Management, TeSys T, motor controller, Profibus DP, 6 logic inputs, 3 relay logic outputs, 0.4 to 8A, 24VDC

LTMR08PBD

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	0.48 A
[Us] rated supply voltage	24 V DC
Current consumption	56127 mA
Supply voltage limits	20.426.24 V DC
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

[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	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 0.8 kV supply, inputs and outputs 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 Load fluctuation Power factor variation Phase failure Overload Reverse polarity protection Overload (long time) Earth-leakage protection Locked rotor Thermal overload protection Phase unbalance

Pollution degree	3
Tightening torque	Control circuit: 0.50.6 N.m flat screwdriver 3 mm
	without cable end Control circuit: connector 2 cable(s) 0.21 mm² (AWG 24AWG 14) solid without cable end
	without cable end Control circuit: connector 2 cable(s) 0.51.5 mm² (AWG 24AWG 14) flexible
	cable end Control circuit: connector 2 cable(s) 0.21.5 mm² (AWG 24AWG 14) flexible
	cable end Control circuit: connector 2 cable(s) 0.21 mm² (AWG 24AWG 14) flexible with
	without cable end Control circuit: connector 1 cable(s) 0.22.5 mm² (AWG 24AWG 14) solid without
	Control circuit: connector 1 cable(s) 0.252.5 mm² (AWG 24AWG 14) flexible
	Control circuit: connector 1 cable(s) 0.22.5 mm² (AWG 24AWG 14) flexible without cable end
Connections - terminals	Control circuit: connector 1 cable(s) 0.252.5 mm² (AWG 24AWG 14) flexible with cable end
Connection pitch	5.08 mm
Overvoltage category	III
	5 % active and reactive power
	0,02 temperature 1 % current
	+/- 30 min/year internal clock
	3 % power factor 5 % earth fault current external measurement
moasarement accuracy	1 % voltage (100830 V)
Measurement accuracy	515 % earth fault current internal measurement
	Phase current I1, I2, I3 RMS Temperature
	Average current lavg Imbalance current
Metering type	Earth-fault current
The same composition	3 NO
Contacts type and composition	1800 cyc/h 1 NO + 1 NC fault signal
Maximum operating rate	30 W (DC-13), le = 1.25 A, 500000 cycles (output)
Permissible power	480 VA (AC-15), le = 2 A, 500000 cycles (output)
	5 A at 30 V DC for logic output
Load current	5 A at 250 V AC for logic output
maximum output switching frequency	2 Hz
Current state 1 guaranteed	Logic input: < 15 V and 215 mA for 15 ms
Current state 0 guaranteed	Logic input: < 5 V and <= 15 mA for 5 ms
Input current	7 mA
Logic input number	Event recording 6
	Trip context information
	Remaining operating time before overload tripping Waiting time after overload tripping
	Phase fault and earth fault trip counters
	Fault recording Starting current and time
21	Trip history information
type	Motor control command recording Running hours counter/operating time

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 East transients immunity test (other circuits) level 3, 2 kV, conforming to EN/IEC
	Fast transients immunity test (other circuits), level 3, 2 kV, conforming to EN/IEC 61000-4-4 East transients immunity test (on supply and relay outputs), level 4, 4 kV, conforming
	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
	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 (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
Width	91 mm
Height	61 mm
Depth	122.5 mm
Net weight	0.53 kg
Web services	Web server
Compatibility code	LTMR
Environment	
Standards	IACS E10
	EN 60947-4-1
	IEC 60947-4-1
	UL 508 CSA C22.2 No 14
Product certifications	ATEX
	GL
	LROS (Lloyds register of shipping)
	CSA UL
	C-Tick
	CCC
	DNV
	RINA
	ABS KERI
	KERI EAC
	BV
	NOM
	RMRoS
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	ID20

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	516.0 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	5.5 kg

Contractual warranty

Warranty 18 months



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

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Transparency RoHS/REACh

Well-being performance

⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free
Ø	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