



Motor Management, TeSys T, motor controller, Modbus, 6 logic inputs, 3 relay logic outputs, 1.35 to 27A, 24VDC

LTMR27MBD

(!) To be discontinued

- ! Discontinued on: 1 Dec 2023
- ! End-of-service on: 31 Dec 2023

Main

Range	TeSys	
Product name	TeSys T	
Device short name	LTMR	
product or component type	type Motor controller	
Device application	Equipment monitoring and control	
measurement current	ent 1.3527 A	
[Us] rated supply voltage	24 V DC	
Current consumption	56127 mA	
Supply voltage limits	20.426.24 V DC	
Communication port protocol	Modbus	
Bus type	Modbus 2-wire RS 485 interface, addressing 1247, transmission rate 1.219.2 kbit/s, RJ45 with 2 shielded twisted pairs Modbus 2-wire RS 485 interface, addressing 1247, transmission rate 1.219.2 kbit/s, terminal block with 2 shielded twisted pairs	

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

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Network and machine diagnosis	Starting current and time
type	Running hours counter/operating time
•	Remaining operating time before overload tripping
	Trip history information
	Trip context information
	Event recording
	Waiting time after overload tripping
	Phase fault and earth fault trip counters
	Fault recording Motor control command recording
Logic input number	6
nput current	7 mA
Current state 0 guaranteed	Logic input: < 5 V and <= 15 mA for 5 ms
Current state 1 guaranteed	Logic input: < 15 V and 215 mA for 15 ms
maximum output switching	2 Hz
requency	
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)
F	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 p = ======	3 NO
Metering type	Temperature
	Average current lavg
	Earth-fault current
	Imbalance current
	Phase current I1, I2, I3 RMS
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) 0.21 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
	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	UL 508
	IEC 60947-4-1
	IACS E10 CSA C22.2 No 14
	EN 60947-4-1
Product certifications	RMRoS
	CSA
	NOM
	BV KERI
	EAC
	LROS (Lloyds register of shipping)
	ATEX
	ABS
	C-Tick RINA
	CCC
	UL
	GL
	DNV
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	-2060 °C
operation	
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	510.0 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	5.489 kg

Contractual warranty

Warranty 18 months



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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