# LTMR100MBD

Motor Management, TeSys T, motor controller, Modbus, 6 logic inputs, 3 logic outputs, 5 to 100A, 24VDC





#### Main

TeSys
TeSys T
LTMR
Motor controller
Equipment monitoring and control
5100 A
24 V DC
56127 mA
20.426.24 V DC
Modbus
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 Phase unbalance Overload (long time) Phase failure Thermal protection Power factor variation Reverse polarity protection Overload Locked rotor Load fluctuation Earth-leakage protection
Network and machine diagnosis type	Remaining operating time before overload tripping Phase fault and earth fault trip counters Fault recording Waiting time after overload tripping Motor control command recording Event recording Starting current and time Trip history information Running hours counter/operating time Trip context information
Logic input number	6
Input 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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	Phase current I1, I2, I3 RMS Temperature Average current lavg Earth-fault current 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 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 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 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
Product weight	0.53 kg
Web services	Web server
Compatibility code	LTMR

#### Environment

Standards	IACS E10
	CSA C22.2 No 14
	EN 60947-4-1
	UL 508
	IEC 60947-4-1
Product certifications	NOM
	RMRoS
	DNV
	C-Tick
	RINA
	CSA
	BV GL
	KERI
	EAC
	LROS (Lloyds register of shipping)
	ABS
	UL
	CCC
	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
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
10.1	
IP degree of protection	IP20

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.1 cm
Package 1 Width	10.0 cm
Package 1 Length	13.5 cm
Package 1 Weight	519.0 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	5.564 kg

## Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Compliant EEU RoHS Declaration	
Mercury free	Yes	
China RoHS Regulation	☑ China RoHS Declaration	
RoHS exemption information	€Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	

WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
Halogen content performance	Halogen free plastic parts product
Contractual warranty	
Warranty	18 months