

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

LTMR100MBD

### Main

Range	TeSys	
Product Name	TeSys T	
Device Short Name	LTMR Motor controller	
Product Or Component Type		
Device Application	Equipment monitoring and control	
Measurement Current	5100 A 24 V DC	
[Us] Rated Supply Voltage		
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

[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

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
	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
	Control circuit: connector 2 cable(s) 0.21 mm² (AWG 24AWG 14) flexible with cable end
	Control circuit: connector 1 cable(s) 0.22.5 mm² (AWG 24AWG 14) solid without cable end
	without cable end
	without cable end Control circuit: connector 1 cable(s) 0.252.5 mm² (AWG 24AWG 14) flexible
	cable end Control circuit: connector 1 cable(s) 0.22.5 mm² (AWG 24AWG 14) flexible
Connections - Terminals	Control circuit: connector 1 cable(s) 0.252.5 mm² (AWG 24AWG 14) flexible with
Connection Pitch	5.08 mm
Overvoltage Category	III
	5 % active and reactive power 0,02 current
	+/- 30 min/year internal clock 0,02 temperature
	5 % earth fault current external measurement
	1 % voltage (100830 V) 3 % power factor
Measurement Accuracy	515 % earth fault current internal measurement
	Imbalance current
	Average current lavg Earth-fault current
Metering Type	Phase current I1, I2, I3 RMS Temperature
	3 NO
Contacts Type And Composition	1 NO + 1 NC fault signal
Maximum Operating Rate	1800 cyc/h
Permissible Power	480 VA (AC-15), le = 2 A, 500000 cycles (output) 30 W (DC-13), le = 1.25 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	6
	Running hours counter/operating time Trip context information
	Starting current and time Trip history information
	Event recording
	Wolor Control Command recording
	Waiting time after overload tripping  Motor control command recording
	Fault recording Waiting time after overload tripping

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	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
In 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	7.1 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

## **Contractual warranty**

Warranty 18 months

### **Sustainability**

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

<b>②</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information Yes	
<b>⊘</b>	Pvc Free	
<b>②</b>	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