# **Product datasheet**

Specifications





Motor controller, TeSys T, Motor Management, Modbus, 6 logic inputs, 3 relay logic outputs, 0.4 to 8A, 100 to 240VAC

LTMR08MFM

### 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	100240 V AC 50/60 Hz
Current Consumption	862.8 mA
Supply Voltage Limits	93.5264 V AC
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	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	Reverse polarity protection Locked rotor Earth-leakage protection Thermal overload protection Phase failure Overload Thermal protection Power factor variation Load fluctuation Phase unbalance Overload (long time)

Network And Machine Diagnosis Type	Event recording Fault recording
	Waiting time after overload tripping
	Running hours counter/operating time
	Phase fault and earth fault trip counters
	Trip context information
	Starting current and time
	Motor control command recording
	Remaining operating time before overload tripping
	Trip history information
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
	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	
Connection Pitch	5.08 mm
Connections - Terminals	Control circuit: connector 1 cable(s) 0.252.5 mm <sup>2</sup> (AWG 24AWG 14) flexible with
	cable end
	Control circuit: connector 1 cable(s) 0.22.5 mm <sup>2</sup> (AWG 24AWG 14) flexible without cable end
	Control circuit: connector 1 cable(s) 0.252.5 mm <sup>2</sup> (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 mm <sup>2</sup> (AWG 24AWG 14) flexible with
	cable end Control circuit: connector 2 cable(c) $0.2 = 1.5 \text{ mm}^2$ (AWG 24 AWG 14) floxible
	Control circuit: connector 2 cable(s) 0.21.5 mm <sup>2</sup> (AWG 24AWG 14) flexible without cable end
	Control circuit: connector 2 cable(s) 0.51.5 mm <sup>2</sup> (AWG 24AWG 14) flexible
	without cable end
	Control circuit: connector 2 cable(s) 0.21 mm <sup>2</sup> (AWG 24AWG 14) solid without
	cable end
Tightening Torque	Control circuit: 0.50.6 N.m flat screwdriver 3 mm
Pollution Degree	3
J	

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 Control circuit: surges (serial mode), 1 kV, conforming to EN/IEC 61000-4-5 Control circuit: surges (common mode), 2 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (common 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
Standarus	
	IEC 60947-4-1
	UL 508
	EN 60947-4-1
	CSA C22.2 No 14
Product Certifications	ABS
	KERI
	BV
	EAC
	CSA
	GL
	C-Tick
	ATEX
	UL
	RMRoS
	NOM
	CCC
	DNV
	RINA
	LROS (Lloyds register of shipping)
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	IP20

**Packing Units** 

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.200 cm
Package 1 Width	10.000 cm
Package 1 Length	13.600 cm
Package 1 Weight	524.0 g
Unit Type Of Package 2	\$02
Number Of Units In Package 2	10
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.594 kg

# **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**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

Mercury Free
 Rohs Exemption Information Yes
 Pvc Free
 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