Product data sheet

Specifications

Motor controller, TeSys T, Motor Management, Modbus, 6 logic inputs, 3 logic outputs, 5 to 100A, 100 to 240VAC

LTMR100MFM

Product availability: Stock - Normally stocked in distribution facility

Price*: 765.00 USD

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	5…100 A
[Us] rated supply voltage	100...240 V AC 50/60 Hz
Current Consumption	8...62.8 mA
Supply voltage limits	93.5…264 V AC
Communication Port Protocol	Modbus
Bus type	Modbus 2-wire RS 485 1...247 1.2...19.2 kbit/s, RJ45 2 shielded twisted pairs Modbus 2-wire RS 485 1...247 1.2...19.2 kbit/s, terminal block 2 shielded twisted pairs

Complementary

[Ui] rated insulation voltage	690 V EN/IEC 60947-1 690 V CSA C22.2 No 14 690 V UL 508
[Uimp] rated impulse withstand voltage	4 kV supply, inputs and outputs EN/IEC 60947-4-1 6 kV current or voltage measurement circuit EN/IEC 60947-4-1 0.8 kV communication circuit EN/IEC 60947-4-1
Short-circuit withstand	100 kA conforming to EN/IEC 60947-4-1
Associated fuse rating	4 A gG output 0.5 A gG control circuit
Protection Type	Load fluctuation Earth-leakage protection Overload (long time) Overload Locked rotor Thermal protection Thermal overload protection Power factor variation Reverse polarity protection Phase failure Phase unbalance

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Network and machine diagnosis type	Motor control command recording Starting current and time Trip history information Phase fault and earth fault trip counters Running hours counter/operating time Remaining operating time before overload tripping Fault recording Trip context information Event recording Waiting time after overload tripping
Logic input number	6
Input current	3.1 mA 100 V 7.5 mA 240 V
Current state 0 guaranteed	Logic input 0...40 V <= 15 mA 25 ms
Current state 1 guaranteed	Logic input 79...264 V >= 2 mA 25 ms
maximum output switching frequency	2 Hz
Load current	5 A 250 V AC logic output 5 A 30 V DC logic output
Permissible power	480 VA AC-15), Ie = 2 A, 500000 cycles output) 30 W DC-13), Ie = 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	Temperature Earth-fault current Average current Iavg Imbalance current Phase current I1, I2, I3 RMS
Measurement accuracy	5...15 % earth fault current internal measurement 1 % voltage 100...830 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	0.20 in (5.08 mm)
Connections - terminals	Control circuit connector 1 0.0004…0.004 in² (0.25…2.5 mm²) AWG 24...AWG 14)flexible with cable end Control circuit connector 1 0.0003…0.004 in² (0.2…2.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.0004…0.004 in² (0.25…2.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.0003…0.004 in² (0.2…2.5 mm²) AWG 24...AWG 14)solid without cable end Control circuit connector 2 0.0003…0.002 in² (0.2…1 mm²) AWG 24...AWG 14)flexible with cable end Control circuit connector 2 0.0003…0.002 in² (0.2…1.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.0008…0.002 in² (0.5…1.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.0003…0.002 in² (0.2…1 mm²) AWG 24...AWG 14)solid without cable end
Tightening torque	Control circuit 4.4…5.3 lbf.in (0.5…0.6 N.m) flat 0.1 in (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 Control circuit: surges (common mode), 2 kV, conforming to EN/IEC 61000-4-5
Width	3.6 in (91 mm)
Height	2.4 in (61 mm)
Depth	4.8 in (122.5 mm)
Net Weight	1.17 lb(US) (0.53 kg)
Web services	Web server
Compatibility code	LTMR

Environment

Standards	IACS E10 IEC 60947-4-1 UL 508 EN 60947-4-1 CSA C22.2 No 14
Product Certifications	LROS (Lloyds register of shipping) UL ABS ATEX EAC CCC BV RINA DNV C-tick RMRoS CSA GL NOM KERI
Protective treatment	12 x 24 hour cycles EN/IEC 60068-2-30 48 h EN/IEC 60070-2-11 TH EN/IEC 60068
Fire resistance	1202 °F (650 °C) EN/IEC 60695-2-12 1760 °F (960 °C) UL 94
Ambient air temperature for operation	-4…140 °F (-20…60 °C)
Ambient Air Temperature for Storage	-40…176 °F (-40…80 °C)
Operating altitude	<= 6561.68 ft (2000 m) without derating
Mechanical robustness	Vibrations mounted on symmetrical rail1 Gn, 5...300 Hz EN/IEC 60068-2-6 Vibrations plate mounted4 Gn, 5...300 Hz EN/IEC 60068-2-6 Shocks half sine wave acceleration15 Gn for 11 ms EN/IEC 60068-2-27
IP Degree of Protection	IP20

Ordering and shipping details

Category	US10I1222338

Discount Schedule	0I12
GTIN	3389119404679
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.8 in (7.2 cm)
Package 1 Width	3.9 in (10.0 cm)
Package 1 Length	5.4 in (13.6 cm)
Package 1 Weight	18.9 oz (536.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	12.315 lb(US) (5.586 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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