

# Product data sheet

Specifications



Motor controller, TeSys T, Motor Management, Ethernet/IP, Modbus/TCP, 6 inputs, 3 outputs, 5 to 100A, 100 to 240VAC

LTMR100EFM

Product availability: Stock - Normally stocked in distribution facility

Price\*: 1,025.00 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 TCP/EtherNet/IP
Bus Type	Ethernet IEEE 802.3 0...159 10...100 Mbit/s, RJ45 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	Reverse polarity protection Overload Phase unbalance Overload (long time) Thermal protection Power factor variation Thermal overload protection Locked rotor Earth-leakage protection Load fluctuation Phase failure

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

<b>Network And Machine Diagnosis Type</b>	Waiting time after overload tripping Motor control command recording Trip context information Phase fault and earth fault trip counters Starting current and time Trip history information Fault recording Event recording Remaining operating time before overload tripping Running hours counter/operating time
<b>Logic Input Number</b>	6
<b>Input Current</b>	3.1 mA 100 V 7.5 mA 240 V
<b>Current State 0 Guaranteed</b>	Logic input 0...40 V <= 15 mA 25 ms
<b>Current State 1 Guaranteed</b>	Logic input 79...264 V >= 2 mA 25 ms
<b>Maximum Output Switching Frequency</b>	2 Hz
<b>Load Current</b>	5 A 250 V AC logic output 5 A 30 V DC logic output
<b>Permissible Power</b>	480 VA AC-15), I <sub>e</sub> = 2 A, 500000 cycles output) 30 W DC-13), I <sub>e</sub> = 1.25 A, 500000 cycles output)
<b>Maximum Operating Rate</b>	1800 cyc/h
<b>Contacts Type And Composition</b>	1 NO + 1 NC fault signal 3 NO
<b>Metering Type</b>	Phase current I1, I2, I3 RMS Temperature Earth-fault current Average current I <sub>avg</sub> Imbalance current
<b>Measurement Accuracy</b>	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
<b>Overvoltage Category</b>	III
<b>Connection Pitch</b>	0.20 in (5.08 mm)
<b>Connections - Terminals</b>	Control circuit connector 1 0.00...0.00 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible with cable end Control circuit connector 1 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.00...0.00 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)solid without cable end Control circuit connector 2 0.00...0.00 in <sup>2</sup> (0.2...1 mm <sup>2</sup> ) AWG 24...AWG 14)flexible with cable end Control circuit connector 2 0.00...0.00 in <sup>2</sup> (0.2...1.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.00...0.00 in <sup>2</sup> (0.5...1.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.00...0.00 in <sup>2</sup> (0.2...1 mm <sup>2</sup> ) AWG 24...AWG 14)solid without cable end
<b>Tightening Torque</b>	Control circuit 4.43...5.31 lbf.in (0.5...0.6 N.m) flat 0.12 in (3 mm)
<b>Pollution Degree</b>	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	3.58 in (91 mm)
Height	2.40 in (61 mm)
Depth	4.82 in (122.5 mm)
Net Weight	1.17 lb(US) (0.53 kg)
Web Services	Web server
Compatibility Code	LTMR

## Environment

Standards	CSA C22.2 No 14 EN 60947-4-1 IACS E10 UL 508 IEC 60947-4-1
Product Certifications	C-tick ABS UL DNV NOM RINA RMRoS BV LROS (Lloyds register of shipping) KERI EAC CCC CSA ATEX GL
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	3389119404914
Returnability	Yes
Country Of Origin	SG

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.83 in (7.2 cm)
Package 1 Width	3.94 in (10.0 cm)
Package 1 Length	5.31 in (13.5 cm)
Package 1 Weight	18.98 oz (538.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	10
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	12.53 lb(US) (5.685 kg)

## Contractual warranty

Warranty	18 months
----------	-----------

Sustainability



**Green Premium™ 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<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	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	<a href="#">End of Life Information</a>