Product data sheet

Specifications



Motor controller, TeSys T, Motor Management, Ethernet/IP, Modbus/ TCP, 6 inputs, 3 outputs, 1.35 to 27A, 100 to 240VAC

LTMR27EFM

Discontinued - Service only

Discontinued on: Oct 30, 2026

To be end-of-service on: Jan 31, 2027

Product availability: Stock - Normally stocked in distribution facility

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	1.35…27 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	Phase unbalance Earth-leakage protection Thermal protection Reverse polarity protection Power factor variation Overload Load fluctuation Locked rotor Thermal overload protection Phase failure Overload (long time)

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	Event recording Trip context information Phase fault and earth fault trip counters Trip history information Waiting time after overload tripping Fault recording Remaining operating time before overload tripping Starting current and time Motor control command recording Running hours counter/operating time
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	Average current Iavg Phase current I1, I2, I3 RMS Imbalance current Earth-fault current Temperature
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 1 % current 5 % active and reactive power
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) 24 AWG...14 AWG)flexible with cable end Control circuit connector 1 0.0003…0.004 in² (0.2…2.5 mm²) 24 AWG...14 AWG)flexible without cable end Control circuit connector 1 0.0004…0.004 in² (0.25…2.5 mm²) 24 AWG...14 AWG)flexible without cable end Control circuit connector 1 0.0003…0.004 in² (0.2…2.5 mm²) 24 AWG...14 AWG)solid without cable end Control circuit connector 2 0.0003…0.002 in² (0.2…1 mm²) 24 AWG...14 AWG)flexible with cable end Control circuit connector 2 0.0003…0.002 in² (0.2…1.5 mm²) 24 AWG...14 AWG)flexible without cable end Control circuit connector 2 0.0008…0.002 in² (0.5…1.5 mm²) 24 AWG...14 AWG)flexible without cable end Control circuit connector 2 0.0003…0.002 in² (0.2…1 mm²) 24 AWG...14 AWG)solid without cable end
Tightening torque	Control circuit: 4.4…5.3 lbf.in (0.5…0.6 N.m) flat screwdriver 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 UL 508 IEC 60947-4-1 EN 60947-4-1 CSA C22.2 No 14
Product Certifications	EAC DNV BV C-tick CCC ABS RINA RMRoS CSA NOM LROS (Lloyds register of shipping) UL KERI GL ATEX
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	US1CTR521259

Discount Schedule	CTR5
GTIN	3389119404891
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.8 in (7.2 cm)
Package 1 Width	3.9 in (10.0 cm)
Package 1 Length	5.3 in (13.5 cm)
Package weight(Lbs)	18.7 oz (530.0 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	12.379 lb(US) (5.615 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**31 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**19 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.2 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**11 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**1 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**Fc01c523-9a07-4dfa-988f-c721d4816782**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**
Halogen content performance	**Halogen free plastic parts product**
PVC free	**Yes**

Use Again

Repack and remanufacture

Recyclability potential, in %	**1**
Circularity Profile	**End of Life Information**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**