

Product data sheet

Specifications



Motor controller, TeSys T, Motor Management, DeviceNet, 6 logic inputs, 3 relay logic outputs, 1.35 to 27A, 24VDC

LTMR27DBD

⚠ To be discontinued

⚠ To be discontinued on: Sep 30, 2026

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

Product availability: Non-Stock - Not 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	24 V DC
Current Consumption	56...127 mA
Supply voltage limits	20.4...26.24 V DC
Communication Port Protocol	DeviceNet
Bus type	DeviceNet ISO 1198 1...64 125...500 kbit/s, terminal block 4 twisted shielded pairs cable

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	6 kV current or voltage measurement circuit EN/IEC 60947-4-1 0.8 kV communication circuit EN/IEC 60947-4-1 0.8 kV supply, inputs and outputs 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	Power factor variation Thermal protection Locked rotor Overload (long time) Phase unbalance Reverse polarity protection Load fluctuation Overload Earth-leakage protection Phase failure Thermal overload protection

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	Running hours counter/operating time Fault recording Remaining operating time before overload tripping Event recording Trip context information Phase fault and earth fault trip counters Starting current and time Trip history information Motor control command recording Waiting time after overload tripping
Logic input number	6
Input current	7 mA
Current state 0 guaranteed	Logic input < 5 V <= 15 mA 5 ms
Current state 1 guaranteed	Logic input < 15 V 2...15 mA 15 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), I _e = 2 A, 500000 cycles output) 30 W DC-13), I _e = 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 I _{avg} Phase current I ₁ , I ₂ , I ₃ RMS Earth-fault current Temperature Imbalance current
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 in ² (0.25...2.5 mm ²) AWG 24...AWG 14)flexible with cable end Control circuit connector 1 0.0003...0.004 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.0004...0.004 in ² (0.25...2.5 mm ²) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.0003...0.004 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)solid without cable end Control circuit connector 2 0.0003...0.002 in ² (0.2...1 mm ²) AWG 24...AWG 14)flexible with cable end Control circuit connector 2 0.0003...0.002 in ² (0.2...1.5 mm ²) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.0008...0.002 in ² (0.5...1.5 mm ²) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.0003...0.002 in ² (0.2...1 mm ²) 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 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 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	3.6 in (91 mm)
Height	2.4 in (61 mm)
Depth	4.8 in (122.5 mm)
Product Weight	1.17 lb(US) (0.53 kg)
Web services	Web server
Compatibility code	LTMR

Environment

Standards	UL 508 CSA C22.2 No 14 IACS E10 IEC 60947-4-1 EN 60947-4-1
Product Certifications	LROS (Lloyds register of shipping) RINA KERI RMRoS CSA ATEX DNV C-tick CCC BV EAC NOM ABS UL 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	US1CTR521259
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Discount Schedule	CTR5
GTIN	3389119404761
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.8 in (7.1 cm)
Package 1 Width	3.9 in (10.0 cm)
Package 1 Length	5.4 in (13.6 cm)
Package weight(Lbs)	17.8 oz (504.0 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	11.914 lb(US) (5.404 kg)

Contractual warranty

Warranty (in months)	18
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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	24 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	18 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]	5 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	No
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 and lead compounds, 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 Longer



Lifetime extension

Repair	No
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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.