

# Product data sheet

Specifications



Motor controller, TeSys T, Motor Management, DeviceNet, 6 inputs, 3 relay outputs, 1.35 to 27A, 100 to 240VAC

LTMR27DFM

## 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	DeviceNet
Bus type	DeviceNet ISO 1198 interface, addressing 1...64, transmission rate 125...500 kbit/s, terminal block with 4 twisted shielded pairs cable

## 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	Thermal overload protection Power factor variation Phase failure Overload (long time) Reverse polarity protection Earth-leakage protection Thermal protection Locked rotor Load fluctuation Overload Phase unbalance
Network and machine diagnosis type	Trip history information Trip context information Running hours counter/operating time Remaining operating time before overload tripping Fault recording Waiting time after overload tripping Starting current and time Phase fault and earth fault trip counters Event recording Motor control command recording

<b>Logic input number</b>	6
<b>Input current</b>	3.1 mA at 100 V 7.5 mA at 240 V
<b>Current state 0 guaranteed</b>	Logic input: 0...40 V and $\leq 15$ mA for 25 ms
<b>Current state 1 guaranteed</b>	Logic input: 79...264 V and $\geq 2$ mA for 25 ms
<b>maximum output switching frequency</b>	2 Hz
<b>Load current</b>	5 A at 250 V AC for logic output 5 A at 30 V DC for logic output
<b>Permissible power</b>	480 VA (AC-15), $I_e = 2$ A, 500000 cycles (output) 30 W (DC-13), $I_e = 1.25$ 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>	Imbalance current Temperature Earth-fault current Average current $I_{avg}$ Phase current I1, I2, I3 RMS
<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 1 % current 5 % active and reactive power
<b>Overvoltage category</b>	III
<b>Connection pitch</b>	5.08 mm
<b>Connections - terminals</b>	Control circuit: connector 1 cable(s) 0.25...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible with cable end Control circuit: connector 1 cable(s) 0.2...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.25...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.2...2.5 mm <sup>2</sup> (AWG 24...AWG 14) solid without cable end Control circuit: connector 2 cable(s) 0.2...1 mm <sup>2</sup> (AWG 24...AWG 14) flexible with cable end Control circuit: connector 2 cable(s) 0.2...1.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.5...1.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.2...1 mm <sup>2</sup> (AWG 24...AWG 14) solid without cable end
<b>Tightening torque</b>	Control circuit: 0.5...0.6 N.m flat screwdriver 3 mm
<b>Pollution degree</b>	3

<b>Electromagnetic compatibility</b>	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
<b>Width</b>	91 mm
<b>Height</b>	61 mm
<b>Depth</b>	122.5 mm
<b>Net weight</b>	0.53 kg
<b>Web services</b>	Web server
<b>Compatibility code</b>	LTMR

## Environment

<b>Standards</b>	EN 60947-4-1 IACS E10 UL 508 CSA C22.2 No 14 IEC 60947-4-1
<b>Product certifications</b>	LROS (Lloyds register of shipping) NOM GL C-Tick ATEX KERI DNV BV RINA UL RMRoS EAC CCC CSA ABS
<b>Protective treatment</b>	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
<b>Fire resistance</b>	650 °C conforming to EN/IEC 60695-2-12 960 °C conforming to UL 94
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>Ambient air temperature for storage</b>	-40...80 °C
<b>Operating altitude</b>	<= 2000 m without derating
<b>Mechanical robustness</b>	Vibrations mounted on symmetrical rail: 1 Gn, 5...300 Hz conforming to EN/IEC 60068-2-6 Vibrations plate mounted: 4 Gn, 5...300 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
<b>IP degree of protection</b>	IP20

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	7.4 cm
<b>Package 1 Width</b>	10 cm
<b>Package 1 Length</b>	13.6 cm
<b>Package 1 Weight</b>	520 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	15 cm
<b>Package 2 Width</b>	30 cm
<b>Package 2 Length</b>	40 cm
<b>Package 2 Weight</b>	5.517 kg

## Contractual warranty

<b>Warranty</b>	18 months
-----------------	-----------



## 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

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

Yes

[EU RoHS Directive](#)

Compliant with Exemptions

SCIP Number

Fc01c523-9a07-4dfa-988f-c721d4816782

Halogen-free status

Halogen free plastic parts product

PVC free

Yes

## Use Again

### Repack and remanufacture

End of life manual availability

[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