

# Product datasheet

Specifications



## motor controller LTMR TeSys T - 100..240 V AC 8 A for Profibus DP

LTMR08PFM

### 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	0.4...8 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	Profibus DP
Bus type	Profibus DP polarised 2-wire RS485 interface, addressing 1...125, transmission rate 9.6 kbit/s...12 Mbit/s, SUB-D 9 with 2 shielded twisted pairs, type A Profibus DP polarised 2-wire RS485 interface, addressing 1...125, transmission rate 9.6 kbit/s...12 Mbit/s, terminal block with 2 shielded twisted pairs, type A

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

<b>Network and machine diagnosis type</b>	Phase fault and earth fault trip counters Trip history information Starting current and time Fault recording Waiting time after overload tripping Event recording Motor control command recording Running hours counter/operating time Trip context information Remaining operating time before overload tripping
<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>	Average current $I_{avg}$ Earth-fault current Temperature Imbalance current 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>	UL 508 IEC 60947-4-1 EN 60947-4-1 IACS E10 CSA C22.2 No 14
<b>Product certifications</b>	CSA C-Tick UL CCC LROS (Lloyds register of shipping) NOM ABS GL EAC BV DNV RINA RMRoS ATEX KERI
<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>	7.2 cm
<b>Package 1 Width</b>	10 cm
<b>Package 1 Length</b>	13.6 cm
<b>Package 1 Weight</b>	526 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>	5.656 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.

[How this information helps you >](#)

### 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**

REACH Regulation [REACH Declaration](#)

China RoHS Regulation [China RoHS declaration](#)

PVC free **Yes**

## Use Again

### Repack and remanufacture

[Circularity Profile](#)

[End of Life Information](#)

WEEE



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

---

Halogen content performance

**Halogen free plastic parts product**

---

Take-back

**No**

---