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

**LTMR27CFM**

**Product availability:** Stock - Normally stocked in distribution facility

**Price**: 750.00 USD

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## Main

<table>
<thead>
<tr>
<th>Range</th>
<th>TeSys</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>TeSys T</td>
</tr>
<tr>
<td><strong>Device short name</strong></td>
<td>LTMR</td>
</tr>
<tr>
<td><strong>Product or Component Type</strong></td>
<td>Motor controller</td>
</tr>
<tr>
<td><strong>Device Application</strong></td>
<td>Equipment monitoring and control</td>
</tr>
<tr>
<td><strong>Measurement current</strong></td>
<td>1.35…27 A</td>
</tr>
<tr>
<td><strong>[Us] rated supply voltage</strong></td>
<td>100…240 V AC 50/60 Hz</td>
</tr>
<tr>
<td><strong>Current Consumption</strong></td>
<td>8…62.8 mA</td>
</tr>
<tr>
<td><strong>Supply voltage limits</strong></td>
<td>93.5…264 V AC</td>
</tr>
<tr>
<td><strong>Communication Port Protocol</strong></td>
<td>CANopen</td>
</tr>
<tr>
<td><strong>Bus type</strong></td>
<td>CANopen ISO 1199 1…127 10…1000 kbit/s, SUB-D 9 4 twisted shielded pairs cable CANopen ISO 1199 1…127 10…1000 kbit/s, terminal block 4 twisted shielded pairs cable</td>
</tr>
</tbody>
</table>

## Complementary

<table>
<thead>
<tr>
<th><strong>[Ui] rated insulation voltage</strong></th>
<th>690 V EN/IEC 60947-1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>[Uimp] rated impulse withstand voltage</strong></td>
<td>4 kV supply, inputs and outputs EN/IEC 60947-4-1</td>
</tr>
<tr>
<td></td>
<td>6 kV current or voltage measurement circuit EN/IEC 60947-4-1</td>
</tr>
<tr>
<td></td>
<td>0.8 kV communication circuit EN/IEC 60947-4-1</td>
</tr>
<tr>
<td><strong>Short-circuit withstand</strong></td>
<td>100 kA conforming to EN/IEC 60947-4-1</td>
</tr>
<tr>
<td><strong>Associated fuse rating</strong></td>
<td>4 A gG output</td>
</tr>
<tr>
<td></td>
<td>0.5 A gG control circuit</td>
</tr>
<tr>
<td><strong>Protection Type</strong></td>
<td>Overload (long time)</td>
</tr>
<tr>
<td></td>
<td>Power factor variation</td>
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<tr>
<td></td>
<td>Phase unbalance</td>
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<tr>
<td></td>
<td>Reverse polarity protection</td>
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<tr>
<td></td>
<td>Locked rotor</td>
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<tr>
<td></td>
<td>Thermal overload protection</td>
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<tr>
<td></td>
<td>Earth-leakage protection</td>
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<tr>
<td></td>
<td>Thermal protection</td>
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<tr>
<td></td>
<td>Phase failure</td>
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<tr>
<td></td>
<td>Overload</td>
</tr>
<tr>
<td></td>
<td>Load fluctuation</td>
</tr>
</tbody>
</table>

**Network and machine diagnosis type**

- Trip history information
- Starting current and time
- Fault recording
- Running hours counter/operating time

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

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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 use applications.
Motor control command recording
Phase fault and earth fault trip counters
Waiting time after overload tripping
Remaining operating time before overload tripping
Trip context information
Event recording

**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**

Temperature
Earth-fault current
Phase current I1, I2, I3 RMS
Imbalance current
Average current Iavg

**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 0.00…0.00 in² (0.25…2.5 mm²) AWG 24...AWG 14) flexible with cable end
Control circuit connector 1 0.00…0.00 in² (0.2…2.5 mm²) AWG 24...AWG 14) flexible without cable end
Control circuit connector 1 0.00…0.00 in² (0.25…2.5 mm²) AWG 24...AWG 14) flexible with cable end
Control circuit connector 1 0.00…0.00 in² (0.2…2.5 mm²) AWG 24...AWG 14) flexible without cable end
Control circuit connector 2 0.00…0.00 in² (0.2…1.5 mm²) AWG 24...AWG 14) flexible with cable end
Control circuit connector 2 0.00…0.00 in² (0.2…1.5 mm²) AWG 24...AWG 14) flexible without cable end
Control circuit connector 2 0.00…0.00 in² (0.5…1.5 mm²) AWG 24...AWG 14) flexible without cable end
Control circuit connector 2 0.00…0.00 in² (0.2…1 mm²) AWG 24...AWG 14) solid without cable end

**Tightening torque**

Control circuit 4.43…5.31 lbf.in (0.5…0.6 N.m) flat 0.12 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
- 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
IACS E10
CSA C22.2 No 14
EN 60947-4-1
IEC 60947-4-1
UL 508

Product Certifications
NOM
LRROS (Lloyds register of shipping)
DNV
C-tick
ABS
ATEX
CSA
EAC
BV
GL
CCC
RMRoS
UL
KERI
RINA

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 G_n, 5...300 Hz EN/IEC 60068-2-6
Vibrations plate mounted4 G_n, 5...300 Hz EN/IEC 60068-2-6
Shocks half sine wave acceleration15 G_n for 11 ms EN/IEC 60068-2-27

IP Degree of Protection
IP20

Ordering and shipping details
Category
22338-SOLID STATE OVERLOAD RELAYS

Discount Schedule
I12

GTIN
3389119404716

Returnability
No

Country of origin
CN

Packing Units

Unit Type of Package 1
PCE

Number of Units in Package 1
1

Package 1 Height
2.76 in (7.0 cm)

Package 1 Width
3.94 in (10.0 cm)

Package 1 Length
5.31 in (13.5 cm)

Package 1 Weight
18.73 oz (531.0 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
12.38 lb (US) (5.614 kg)
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<tr>
<th>Offer Sustainability</th>
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<tr>
<td>Sustainable offer status</td>
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<tr>
<td>REACh Regulation</td>
</tr>
<tr>
<td>EU RoHS Directive</td>
</tr>
<tr>
<td></td>
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<tr>
<td>Mercury free</td>
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<tr>
<td>China RoHS Regulation</td>
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<td>RoHS exemption information</td>
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<td>PVC free</td>
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<td>Halogen content performance</td>
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### Contractual warranty

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<td>18 months</td>
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### Recommended replacement(s)