### Characteristics

**LTMR08PBD**  
Motor controller LTMR TeSys T - 24 V DC 8 A for Profibus DP

Product availability: Non-Stock - Not normally stocked in distribution facility

Price**: 750.00 USD

<table>
<thead>
<tr>
<th><strong>Main</strong></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>TeSys</td>
</tr>
<tr>
<td>Product name</td>
<td>TeSys T</td>
</tr>
<tr>
<td>Device short name</td>
<td>LTMR</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Motor controller</td>
</tr>
<tr>
<td>Device application</td>
<td>Equipment monitoring and control</td>
</tr>
<tr>
<td>Measurement current</td>
<td>0.4…8 A</td>
</tr>
<tr>
<td>[Us] rated supply voltage</td>
<td>24 V DC</td>
</tr>
<tr>
<td>Current consumption</td>
<td>56…127 mA</td>
</tr>
<tr>
<td>Supply voltage limits</td>
<td>20.4…26.24 V DC</td>
</tr>
<tr>
<td>Communication port protocol</td>
<td>Profibus DP</td>
</tr>
<tr>
<td>Bus type</td>
<td>Profibus DP polarised 2-wire RS485 1...125 9.6 kbit/s...12 Mbit/s, SUB-D 9 2 shielded twisted pairs, type A</td>
</tr>
<tr>
<td></td>
<td>Profibus DP polarised 2-wire RS485 1...125 9.6 kbit/s...12 Mbit/s, terminal block 2 shielded twisted pairs, type A</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Complementary</strong></th>
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<tbody>
<tr>
<td>[Ui] rated insulation voltage</td>
<td>690 V EN/IEC 60947-1</td>
</tr>
<tr>
<td></td>
<td>690 V CSA C22.2 No 14</td>
</tr>
<tr>
<td></td>
<td>690 V UL 508</td>
</tr>
<tr>
<td>[Uimp] rated impulse withstand voltage</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></td>
<td>0.8 kV supply, inputs and outputs EN/IEC 60947-4-1</td>
</tr>
<tr>
<td>Short-circuit withstand</td>
<td>100 kA EN/IEC 60947-4-1</td>
</tr>
<tr>
<td>Associated fuse rating</td>
<td>4 A gG output</td>
</tr>
<tr>
<td></td>
<td>0.5 A gG control circuit</td>
</tr>
<tr>
<td>Protection type</td>
<td>Thermal protection</td>
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<tr>
<td></td>
<td>Load fluctuation</td>
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<td></td>
<td>Power factor variation</td>
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<td></td>
<td>Phase failure</td>
</tr>
<tr>
<td></td>
<td>Overload</td>
</tr>
</tbody>
</table>

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.
### Reverse polarity protection
- Overload (long time)
- Earth-leakage protection
- Locked rotor
- Thermal overload protection
- Phase unbalance

### Network and machine diagnosis type
- Motor control command recording
- Running hours counter/operating time
- Trip history information
- Fault recording
- Starting current and time
- Phase fault and earth fault trip counters
- Remaining operating time before overload tripping
- Waiting time after overload tripping
- Trip context information
- Event recording

### 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), le = 2 A, 500000 cycles output
- 30 W DC-13), le = 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
- Earth-fault current
- Average current \( I_{avg} \)
- Imbalance current
- Phase current \( I_1, I_2, I_3 \) RMS
- Temperature

### Measurement accuracy
- 5...15 % earth fault current internal measurement for current > 0.1 A)
- 1 % voltage 100...830 V)
- 3 % power factor \( \cos \phi > 0.6 \)
- 5 % earth fault current external measurement < 5 % or 0.01 A)
- +/- 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 in\(^2\) (0.25…2.5 mm\(^2\)) AWG 24…AWG 14)flexible with cable end
- Control circuit connector 1 0.00…0.00 in\(^2\) (0.2…2.5 mm\(^2\)) AWG 24…AWG 14)flexible without cable end
- Control circuit connector 1 0.00…0.00 in\(^2\) (0.25…2.5 mm\(^2\)) AWG 24…AWG 14)flexible without cable end
- Control circuit connector 1 0.00…0.00 in\(^2\) (0.2…2.5 mm\(^2\)) AWG 24…AWG 14)flexible without cable end
- Control circuit connector 2 0.00…0.00 in\(^2\) (0.2…1 mm\(^2\)) AWG 24…AWG 14)flexible without cable end
- Control circuit connector 2 0.00…0.00 in\(^2\) (0.2…1 mm\(^2\)) AWG 24…AWG 14)flexible without cable end
- Control circuit connector 2 0.00…0.00 in\(^2\) (0.5…1.5 mm\(^2\)) AWG 24…AWG 14)flexible without cable end
- Control circuit connector 2 0.00…0.00 in\(^2\) (0.2…1 mm\(^2\)) AWG 24…AWG 14)flexible 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\(\text{EN/IEC 61000-4-2}\)
- Radiated RF fields, 3 10 V/m\(\text{EN/IEC 61000-4-3}\)
- Fast transients immunity test, level 3 2 kV/\(\text{EN/IEC 61000-4-4}\)
- Fast transients immunity test, level 4 4 kV/\(\text{EN/IEC 61000-4-4}\)
- Voltage dips and interruptions immunity test 70 %, 500 ms/\(\text{EN/IEC 61000-4-11}\)
- Conducted RF disturbances 10 V/\(\text{EN/IEC 61000-4-6}\)
- Surges 0.5 kV/\(\text{EN/IEC 61000-4-5}\)
- Surges 1 kV/\(\text{EN/IEC 61000-4-5}\)
- Surges 1 kV/\(\text{EN/IEC 61000-4-5}\)
- Surges 2 kV/\(\text{EN/IEC 61000-4-5}\)
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
- EN 60947-4-1
- IEC 60947-4-1
- UL 508
- CSA C22.2 No 14

Product certifications
- ATEX
- GL
- LROS (Lloyds register of shipping)
- CSA
- UL
- C-Tick
- CCC
- DNV
- RINA
- ABS
- KERI
- EAC
- BV
- NOM
- RMRoS

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 rail 1 Gn, 5…300 Hz EN/IEC 60068-2-6
- Vibrations plate mounted 4 Gn, 5…300 Hz EN/IEC 60068-2-6
- Shocks half sine wave acceleration 15 Gn 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
- 112

GTIN
- 00785901498513

Package weight (Lbs)
- 0.53 kg (1.17 lb (US))

Returnability
- No

Country of origin
- CN

Offer Sustainability

Sustainable offer status
- Green Premium product

REACH Regulation
- REACH Declaration

EU RoHS Directive
- Compliant
- EU RoHS Declaration

Mercury free
- Yes

RoHS exemption information
- Yes

China RoHS Regulation
- China RoHS declaration
- Product out of China RoHS scope. Substance declaration for your information.
<table>
<thead>
<tr>
<th>Environmental Disclosure</th>
<th>Product Environmental Profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circularity Profile</td>
<td>End of Life Information</td>
</tr>
</tbody>
</table>

**WEEE**

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

**Contractual warranty**

<table>
<thead>
<tr>
<th>Warranty</th>
<th>18 months</th>
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