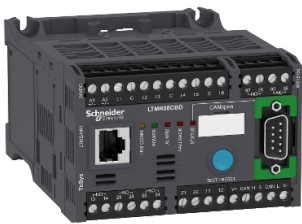


# Product datasheet

Specifications



## motor controller LTMR TeSys T - 24 V DC 8 A for CANopen

LTMR08CBD

! Discontinued on: 1 Dec 2023

! To be discontinued

### 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   | 24 V DC                                                                                                                                                                                                                                                                   |
| Current Consumption         | 56...127 mA                                                                                                                                                                                                                                                               |
| Supply Voltage Limits       | 20.4...26.24 V DC                                                                                                                                                                                                                                                         |
| Communication Port Protocol | CANopen                                                                                                                                                                                                                                                                   |
| Bus Type                    | CANopen ISO 1198 interface, addressing 1...127, transmission rate 10...1000 kbit/s, SUB-D 9 with 4 twisted shielded pairs cable<br>CANopen ISO 1198 interface, addressing 1...127, transmission rate 10...1000 kbit/s, terminal block with 4 twisted shielded pairs cable |

### Complementary

|                                        |                                                                                                                                                                                                                                                    |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [UI] Rated Insulation Voltage          | 690 V conforming to EN/IEC 60947-1<br>690 V conforming to CSA C22.2 No 14<br>690 V conforming to UL 508                                                                                                                                            |
| [Uimp] Rated Impulse Withstand Voltage | 6 kV current or voltage measurement circuit conforming to EN/IEC 60947-4-1<br>0.8 kV communication circuit conforming to EN/IEC 60947-4-1<br>0.8 kV supply, inputs and outputs 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<br>0.5 A gG for control circuit                                                                                                                                                                                                  |
| Protection Type                        | Overload (long time)<br>Phase failure<br>Load fluctuation<br>Phase imbalance<br>Reverse polarity protection<br>Thermal protection<br>Thermal overload protection<br>Earth-leakage protection<br>Power factor variation<br>Overload<br>Locked rotor |

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

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Network And Machine Diagnosis Type</b> | Trip context information<br>Remaining operating time before overload tripping<br>Starting current and time<br>Event recording<br>Motor control command recording<br>Running hours counter/operating time<br>Waiting time after overload tripping<br>Trip history information<br>Phase fault and earth fault trip counters<br>Fault recording                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Logic Input Number</b>                 | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Input Current</b>                      | 7 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Current State 0 Guaranteed</b>         | Logic input: < 5 V and <= 15 mA for 5 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Current State 1 Guaranteed</b>         | Logic input: < 15 V and 2...15 mA for 15 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Maximum Output Switching Frequency</b> | 2 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Load Current</b>                       | 5 A at 250 V AC for logic output<br>5 A at 30 V DC for logic output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Permissible Power</b>                  | 480 VA (AC-15), I <sub>e</sub> = 2 A, 500000 cycles (output)<br>30 W (DC-13), I <sub>e</sub> = 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<br>3 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Metering Type</b>                      | Average current I <sub>avg</sub><br>Phase current I <sub>1</sub> , I <sub>2</sub> , I <sub>3</sub> RMS<br>Temperature<br>Earth-fault current<br>Imbalance current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Measurement Accuracy</b>               | 5...15 % earth fault current internal measurement<br>1 % voltage (100...830 V)<br>3 % power factor<br>5 % earth fault current external measurement<br>+/- 30 min/year internal clock<br>0,02 temperature<br>1 % current<br>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<br>Control circuit: connector 1 cable(s) 0.2...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end<br>Control circuit: connector 1 cable(s) 0.25...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end<br>Control circuit: connector 1 cable(s) 0.2...2.5 mm <sup>2</sup> (AWG 24...AWG 14) solid without cable end<br>Control circuit: connector 2 cable(s) 0.2...1 mm <sup>2</sup> (AWG 24...AWG 14) flexible with cable end<br>Control circuit: connector 2 cable(s) 0.2...1.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end<br>Control circuit: connector 2 cable(s) 0.5...1.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electromagnetic Compatibility | Electrostatic discharge, 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2<br>Radiated RF fields, 3, 10 V/m, conforming to EN/IEC 61000-4-3<br>Fast transients immunity test (other circuits), level 3, 2 kV, conforming to EN/IEC 61000-4-4<br>Fast transients immunity test (on supply and relay outputs), level 4, 4 kV, conforming to EN/IEC 61000-4-4<br>Voltage dips and interruptions immunity test, 70 %, 500 ms, conforming to EN/IEC 61000-4-11<br>Conducted RF disturbances, 10 V, conforming to EN/IEC 61000-4-6<br>Temperature sensor: surges (serial mode), 0.5 kV, conforming to EN/IEC 61000-4-5<br>Temperature sensor: surges (common mode), 1 kV, conforming to EN/IEC 61000-4-5<br>Control circuit: surges (serial mode), 1 kV, conforming to EN/IEC 61000-4-5<br>Control circuit: surges (common mode), 1 kV, conforming to EN/IEC 61000-4-5<br>Communication: surges (common mode), 2 kV, conforming to EN/IEC 61000-4-5<br>Relay outputs and supply: surges (serial mode), 2 kV, conforming to EN/IEC 61000-4-5<br>Relay outputs and supply: surges (common mode), 4 kV, conforming to EN/IEC 61000-4-5 |
| Width                         | 91 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Height                        | 61 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Depth                         | 122.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Net Weight                    | 0.53 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Web Services                  | Web server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Compatibility Code            | LTMR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Environment

|                                       |                                                                                                                                                                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN 60947-4-1<br>CSA C22.2 No 14<br>IEC 60947-4-1<br>UL 508<br>IACS E10                                                                                                                                                                                      |
| Product Certifications                | ATEX<br>C-Tick<br>EAC<br>LROS (Lloyds register of shipping)<br>NOM<br>BV<br>RINA<br>KERI<br>ABS<br>UL<br>CSA<br>DNV<br>RMRoS<br>GL<br>CCC                                                                                                                   |
| Protective Treatment                  | 12 x 24 hour cycles conforming to EN/IEC 60068-2-30<br>48 h conforming to EN/IEC 60070-2-11<br>TH conforming to EN/IEC 60068                                                                                                                                |
| Fire Resistance                       | 650 °C conforming to EN/IEC 60695-2-12<br>960 °C conforming to UL 94                                                                                                                                                                                        |
| Ambient Air Temperature For Operation | -20...60 °C                                                                                                                                                                                                                                                 |
| Ambient Air Temperature For Storage   | -40...80 °C                                                                                                                                                                                                                                                 |
| Operating Altitude                    | <= 2000 m without derating                                                                                                                                                                                                                                  |
| Mechanical Robustness                 | Vibrations mounted on symmetrical rail: 1 Gn, 5...300 Hz conforming to EN/IEC 60068-2-6<br>Vibrations plate mounted: 4 Gn, 5...300 Hz conforming to EN/IEC 60068-2-6<br>Shocks half sine wave acceleration: 15 Gn for 11 ms conforming to EN/IEC 60068-2-27 |
| Ip Degree Of Protection               | IP20                                                                                                                                                                                                                                                        |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type Of Package 1       | PCE      |
| Number Of Units In Package 1 | 1        |
| Package 1 Height             | 7.0 cm   |
| Package 1 Width              | 10.0 cm  |
| Package 1 Length             | 13.5 cm  |
| Package 1 Weight             | 510.0 g  |
| Unit Type Of Package 2       | S02      |
| Number Of Units In Package 2 | 10       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 5.452 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 12 months |
|----------|-----------|

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

## Well-being performance

|   |                                    |     |
|---|------------------------------------|-----|
| ✓ | Mercury Free                       |     |
| ✓ | Rohs Exemption Information         | Yes |
| ✓ | Pvc Free                           |     |
| ✓ | Halogen Free Plastic Parts Product |     |

## Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive        | Compliant with Exemptions                                                                                                   |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                               |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                     |