

# Product data sheet

Specifications



## Expansion Module, TeSys Tera, Input for Ground Fault CT, 2 DI and 2 DO, Inputs 24VDC, for Motor Management

LTMTZCT22BD

⚠️ Launching in: 30 June 2024

⚠️ Coming soon

### Main

|                           |                                   |
|---------------------------|-----------------------------------|
| Range                     | TeSys                             |
| Product name              | TeSys Tera                        |
| Device short name         | LTMT                              |
| Product or component type | Extension module                  |
| Device application        | Equipment monitoring and control  |
| Range compatibility       | TeSys TeSys Tera motor controller |
| Supply                    | Via the controller                |

### Complementary

|  |   |
|--|---|
| [Ui] rated insulation voltage          | 690 V EN/IEC 60947-1<br>690 V CSA C22.2 No 14<br>690 V UL 508   |
| Overvoltage category                   | III   |
| Pollution degree                       | 3   |
| [Uimp] rated impulse withstand voltage | 0.8 kV current or voltage measurement circuit EN/IEC 60947-4-1<br>0.8 kV supply, inputs and outputs EN/IEC 60947-4-1  |
| Protection type                        | Overload protection<br>Stalled rotor<br>Locked rotor<br>Short-circuit<br>Undercurrent<br>Overcurrent<br>Current unbalance<br>Phase reversal<br>Phase loss<br>Earth fault protection internal<br>Earth fault protection external<br>Excessive starting time<br>Max number of start<br>Undervoltage<br>Overvoltage<br>Voltage unbalance<br>Underfrequency<br>Overfrequency<br>Reacceleration<br>Temperature protection<br>Analog input protection<br>Communication failure<br>Fail to stop<br>Under power<br>Over power<br>Power factor variation<br>Anti-backspin timer<br>Block output<br>DI interlock protection |

|   |  |
|---|--|
| <b>maximum output switching frequency</b> | 2 Hz   |
| <b>Load current</b>                       | 10 A 250 V AC/DC<br>5 A 30 V DC  |
| <b>Short-circuit withstand</b>            | 100 kA conforming to EN/IEC 60947-4-1  |
| <b>maximum operating rate</b>             | 1800 cyc/h   |
| <b>Contacts type and composition</b>      | Without  |
| <b>Measurement accuracy</b>               | 1 % current 0.3...3 A)<br>1 % current 2.5...25 A)<br>3 % current 7...70 A)<br>3 % current 10...100 A)<br>1 % voltage 110...690 V)<br>+/- 2.5 % earth fault current external measurement<br>+/- 2.5 % earth fault current external measurement current > 0.03 A in the 0.3...3 A range)<br>+/- 3...5 % earth fault current internal measurement current > 0.03 A in the 0.3...3 A range)<br>+/- 30 min/year internal clock current > 0.25 A in the 2.5...25 A range)<br>+/- 3...5 % earth fault current internal measurement current > 0.25 A in the 2.5...25 A range)<br>+/- 3...5 % earth fault current internal measurement current > 0.7 A in the 7...70 A range)<br>+/- 3...5 % earth fault current internal measurement current > 1 A in the 10...100 A range)<br>+/- 2 % temperature<br>+/- 2 % THD measurement<br>+/- 2...5 % active and reactive energy<br>+/- 3...6 % power factor  |
| <b>Mounting mode</b>                      | Flush-mounted  |
| <b>Connection pitch</b>                   | 0.2 in (5.0 mm)  |
| <b>Connections - terminals</b>            | Control circuit connector 2 0.0004...0.004 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible with cable end<br>Control circuit connector 1 0.0003...0.004 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end<br>Control circuit connector 1 0.0004...0.004 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end<br>Control circuit connector 1 0.0003...0.004 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) AWG 24...AWG 14)solid without cable end<br>Control circuit connector 2 0.0003...0.002 in <sup>2</sup> (0.2...1 mm <sup>2</sup> ) AWG 24...AWG 14)flexible with cable end<br>Control circuit connector 2 0.0003...0.002 in <sup>2</sup> (0.2...1.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end<br>Control circuit connector 2 0.0008...0.002 in <sup>2</sup> (0.5...1.5 mm <sup>2</sup> ) AWG 24...AWG 14)flexible without cable end<br>Control circuit connector 2 0.0003...0.002 in <sup>2</sup> (0.2...1 mm <sup>2</sup> ) AWG 24...AWG 14)solid without cable end |
| <b>Input type</b>                         | Digital input x2   |
| <b>Output type</b>                        | 2 xdigital 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>Electromagnetic compatibility</b>      | Electrostatic discharge, level 3, 8 kV air, 4 kV contact<br>Fast transient bursts, level 3, 2 kV<br>Immunity to electromagnetic interference, level 3, 10 V/m<br>Immunity to shock waves, level 3, 2 kV  |
| <b>Depth</b>                              | 3.5 in (90 mm)   |
| <b>Height</b>                             | 4.4 in (112 mm)  |
| <b>Width</b>                              | 0.9 in (22.5 mm)   |
| <b>Tightening torque</b>                  | Control circuit: 4.4...5.3 lbf.in (0.5...0.6 N.m) flat screwdriver 0.1 in (3 mm)   |
| <b>Tightening torque</b>                  | Control circuit 4.4 lbf.in (0.5 N.m) flat 0.1 in (3 mm)  |

## Environment

|  |  |
|--|--|
| <b>Product certifications</b>                | IEC<br>UL<br>cUL   |
| <b>IP degree of protection</b>               | IP20   |
| <b>Standards</b>                             | EN/IEC 60947-4-1<br>UL/CSA 60947-4-1   |
| <b>Fire resistance</b>                       | 1202 °F (650 °C) EN/IEC 60695-2-12<br>1760 °F (960 °C) UL 94   |
| <b>Protective treatment</b>                  | 12 x 24 hour cycles EN/IEC 60068-2-30  |
| <b>Ambient air temperature for storage</b>   | -40...176 °F (-40...80 °C)   |
| <b>Operating altitude</b>                    | <= 2000 m without derating   |
| <b>Mechanical robustness</b>                 | Shocks half sine wave acceleration 15 Gn for 11 ms EN/IEC 60068-2-27<br>Vibrations mounted on symmetrical rail 1 Gn, 5...300 Hz EN/IEC 60068-2-6<br>Vibrations plate mounted 4 Gn, 5...300 Hz EN/IEC 60068-2-6 |
| <b>Ambient air temperature for operation</b> | -4...158 °F (-20...70 °C)  |

## Packing Units

|                                     |                             |
|-------------------------------------|-----------------------------|
| <b>Unit Type of Package 1</b>       | PCE                         |
| <b>Number of Units in Package 1</b> | 1                           |
| <b>Package 1 Height</b>             | 2.2 in (5.7 cm)             |
| <b>Package 1 Width</b>              | 3.9 in (10 cm)              |
| <b>Package 1 Length</b>             | 4.3 in (11 cm)              |
| <b>Package 1 Weight</b>             | 6.6 oz (188 g)              |
| <b>Unit Type of Package 2</b>       | S01                         |
| <b>Number of Units in Package 2</b> | 12                          |
| <b>Package 2 Height</b>             | 5.9 in (15 cm)              |
| <b>Package 2 Width</b>              | 5.9 in (15 cm)              |
| <b>Package 2 Length</b>             | 15.7 in (40 cm)             |
| <b>Package 2 Weight</b>             | 5.946 lb(US) (2.697 kg)     |
| <b>Unit Type of Package 3</b>       | P06                         |
| <b>Number of Units in Package 3</b> | 576                         |
| <b>Package 3 Height</b>             | 413.4 in (1050 cm)          |
| <b>Package 3 Width</b>              | 29.5 in (75 cm)             |
| <b>Package 3 Length</b>             | 37.4 in (95 cm)             |
| <b>Package 3 Weight</b>             | 265.190 lb(US) (120.288 kg) |

## Contractual warranty

|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 18 |
|-----------------------------|----|



## 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

|  |                |
|--|----------------|
| Total lifecycle Carbon footprint                       | 32 kg CO2 eq.  |
| Carbon footprint of the manufacturing phase [A1 to A3] | 6 kg CO2 eq.   |
| Carbon footprint of the distribution phase [A4]        | 0.1 kg CO2 eq. |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.   |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 26 kg CO2 eq.  |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.4 kg CO2 eq. |

## Use Better



### Materials and Substances

|  |  |
|--|--|
| Packaging made with recycled cardboard | Yes  |
| Packaging without single use plastic   | Yes  |
| SCIP Number                            | 071d4093-faf7-4560-a02e-7295541e4c02   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>   |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |
| Halogen content performance            | Halogen free plastic parts product   |
| PVC free                               | Yes  |
| Silicon free                           | Yes  |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



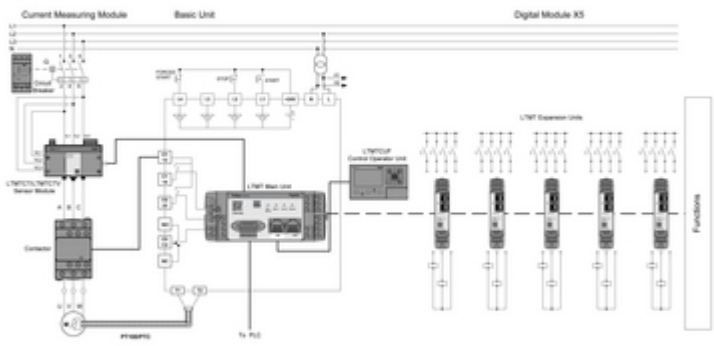
### Repack and remanufacture

|                               |   |
|-------------------------------|---|
| Recyclability potential, in % | 0   |
| Take-back                     | Nej   |
| WEEE Label                    |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Technical Illustration

Wiring diagram

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Technical Illustration

Assembly's dimensions

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