

TTM32-001 6U SERIES PDU

Technical Specifications

Input	Input Protections
1x CEE 32A 400V 5P (Mennekes)	1x Main MCB C32A 4P I _{cn} :10kA (Siemens)

Outputs	Outputs Protections
3x Syntax® SSX 16A 230V 19P (Valentini)	18x RCBO C16A 30mA 1P A-type (Siemens)
3x Auxiliary connector 230V 3P (Optional)	3x RCBO C16A* 30mA 1P A-type (Siemens)
1x HAN® GND grounding connector (Harting)	

*For selected auxiliary connectors, the rated current of RCBO varies. J1 version is with RCBO C10A 30mA 1P A-type; and G1 and B1 versions are with RCBO C13A 30mA 1P A-type.

Additional Functionalities

- **Indicator LEDs**
 - 3x Phase presence indicator white LED (L1, L2, L3)
 - 18x RCBO "I-ON" state green LED for Syntax® SSX output channels
 - 3x RCBO "I-ON" state green LED for auxiliary connectors
- **Independent fuses:** All phase presence indicator LEDs are powered via an independently fused circuit. In the event of an MCB trip, LEDs remain operational to support fault diagnostics (e.g., phase loss detection).

Mechanical & Electrical Design

- **Ingress Protection:** IP40; protection against solid objects >1 mm; not protected against liquids. Intended for indoor use only, in dry, controlled environments.
- **Enclosure Material:** 2.0 mm powder-coated aluminium sheet with fine-textured finish, offering adequate mechanical protection and corrosion resistance for standard indoor applications.
- **Overall Dimensions:** 270 x 485 x 285 in mm (Height × Width × Depth) or rack size 6U 19".
- **Handle Type:** Fixed round-bar pull handles made of aluminium alloy, suitable for manual handling and mounting support.
- **Labeling:** All connectors and protective devices are identified with UV-printed markings. UV printing ensures resistance to environmental degradation, including UV exposure and solvent-based cleaning agents.

- **Connector Installation:** Equipped with Quick Connector Replacement (QCR) system. Connectors are mounted with four stainless steel screws and sufficient internal cable slack to enable replacement without disassembling the entire enclosure.
- **Internal Conductor Cross-Sections:**
 - 32A circuits: 6 mm² (Cu)
 - 16A circuits: 2.5 mm² (Cu)
- **Wiring and Components:**
 - Internal cabling: Helukabel flexible conductors, H07V-K or equivalent.
 - Terminal blocks: Phoenix Contact or Ouneva spring-cage or screw-type terminals, selected per application and load class.

Electrical Specifications

- Rated voltage (U_n): 400 V AC, 3P+N+PE
- Rated current (I_{nA}): 32 A
- Frequency (f_n): 50/60 Hz
- Maximum continuous load: 22 kVA** (22 kW at $\cos\phi = 1$)
- Rated diversity factor (RDF): 0.28
- Rated conditional short-circuit current (I_{cc}): 10 kA (in accordance with EN 60898)
- Protection class: Class I (protective earth)

**At 30°C ambient air temperature

Environmental Ratings

- Operating temperature: –5 °C to +40 °C, with the average ambient temperature over a 24-hour period not exceeding 35 °C (in accordance with IEC/EN 61439 recommendations).
- Storage temperature: 0 °C to +40 °C
- Relative humidity: Maximum 95% at ambient temperatures from –5 °C to 30 °C, decreasing to 70% at 35 °C and 57% at 40 °C, non-condensing (in accordance with IEC/EN 61439 recommendations).
- Maximum installation altitude: ≤2000 m above sea level.

Auxiliary Connector Options

The following configurations are available for auxiliary connectors:

Code	Type	Rated Current	IP Code***	Manufacturer
F1	German / Austrian (Type F)	16A	IP54	Mennekes
F2	German / Austrian with gasket (Type F)	16A	IP54	Mennekes

Code	Type	Rated Current	IP Code***	Manufacturer
E1	French / Belgian (Type E)	16A	IP44	Mennekes
G1	British (Type G)	13A	IP44	ABL
P1	powerCON® TRUE1 with rubber sealing cap	16A	IP65	Neutrik
J1	Swiss T13 (Type J)	10A	IP54	PCE
J2	Swiss T23 (Type J)	16A	IP54	PCE
B1	USA / Canada (Type B)	15A	IP44	ABL
K1	Danish (Type K)	16A	IP44	PCE
CE	CEE 6h	16A	IP54	Mennekes

***The stated IP rating applies when all enclosure lids and covers are fully closed. When connectors are mated, the overall ingress protection level may vary depending on the IP rating of the connected plugs. Users should ensure that all connected components maintain appropriate protection levels for the intended environment.

Ordering Information

The following table lists all standard configuration variants available for the TTM32-001 Series. Each part number corresponds to a specific auxiliary connector layout and color scheme.

Ordering Code	Connector Color Description	
	CEE Input	Auxiliary Connector
TTM32-001-F1-B	Black	Black
TTM32-001-F1-C	Red	Blue, Black, Grey
TTM32-001-F2-B	Black	Black
TTM32-001-F2-C	Red	Blue, Black, Grey
TTM32-001-E1-B	Black	Black
TTM32-001-E1-C	Red	Blue, Black, Grey
TTM32-001-G1-B	Black	Black
TTM32-001-G1-C	Red	Black
TTM32-001-P1-B	Black	Black
TTM32-001-P1-C	Red	Black
TTM32-001-J1-B	Black	Black with blue lid
TTM32-001-J1-C	Red	Black with blue lid
TTM32-001-J2-B	Black	Black with blue lid
TTM32-001-J2-C	Red	Black with blue lid
TTM32-001-B1-B	Black	Black
TTM32-001-B1-C	Red	Black
TTM32-001-K1-B	Black	Black
TTM32-001-K1-C	Red	Blue
TTM32-001-CE-B	Black	Black

Ordering Code	Connector Color Description	
	CEE Input	Auxiliary Connector
TTM32-001-CE-C	Red	Grey with blue lid

Connector Color Options:

- B = All connectors in black (where available)
- C = Color-coded connectors: red for input and blue/black/grey for outputs (where available), offering quick visual identification during setup.

Certifications & Standards

- **CE Compliance:** All components and final assemblies are CE certified, conforming to the requirements of applicable European directives, including the Low Voltage Directive (2014/35/EU) and the EMC Directive (2014/30/EU).
- **Standards Compliance:** Designed in accordance with the following international standards:
 - EN 61439-1: Low-voltage switchgear and controlgear assemblies – General rules.
- **Manufacturer Information:**
Designed and manufactured by:
Tesla Entertainment Kft.
Address: H-1151 Budapest, Károlyi Sándor út 158.; Hungary
EU VAT ID: HU26587255
- **Country of Origin:** Hungary; all units are assembled and tested at our facility in Budapest.

Safety Notice

- This device must be installed, operated, and maintained by qualified personnel only. Internal components may carry live voltage during operation. Maintenance tasks, including connector replacement, must only be carried out with the power supply fully disconnected/isolated.
- All safety guidelines, installation procedures, and maintenance instructions are provided in the product's user manual. Please read and follow them carefully to ensure safe and correct operation.
- For full warranty terms and legal information, please refer to our General Terms and Conditions available at: <https://TeslaTech.GmbH/GTCS>

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