

Technical data sheet

Socket with built-in USB charger



Identification

Type	ST-0030 250V 16A E / 2 x USB-A
Part No.	810030

Product version

Datasheet version	02
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Use/Application/Properties

Description	Socket type E with integrated USB charger. Two USB charging ports with a total current of 2.4 A are available. A special charging technology recognises the charging protocol of the connected device and thus ensures fast and efficient charging. The socket outlet has mechanical protection against accidental contact (shutter). A circumferential bevel with an angle of 3° ensures that liquids drain off independently.
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Technical Data socket

Rated voltage U_N	AC 250 V
Rated current	16 A
Connector type	E (CEE 7/5)
Contact durability	25000

Technical Data USB charger

Input voltage	AC 220 – 250 V, 50/60 Hz
Input current	Max. 0,5 A
Output voltage	DC 4.75 V – 5.25 V
Output current	0,01 – 2,4 A
Power output	12 W
Energy efficiency	≥86 %
Power Dissipation	(Standby consumption) ≤ 50 mW
Connector type	USB-A
Contact durability	10000

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Connection type	Spring terminal Single-wire 1.5 ... 2 × 2.5 mm ² Fine stranded 1,5 ... 2 × 2,5 mm ² Stripping length: 11 mm
Operation temperature range	-25 °C ... +55 °C Torx + Pin PIN-TX10 (anti-theft security screw)

General

Dimensions (w × h × d)	71.0 mm × 71.0 mm × 44.0 mm
Weight/unit	0.097 kg
Color of the housing	Pure white matte (RAL 9010)
Mounting	8 possible fixing points for screw or claw mounting (included in delivery).
Installation position	USB connectors on top Suitable for cover frames 55 × 55 mm (not in the scope of delivery) Installation depth: 32 mm

Environmental service conditions

Altitude	2000 m
Operating temperature class	OT1: -25 °C ... +55 °C
Switch-on extended Operating temperature class	ST1: OTx + 15 °C
Temperature variation class	H1:no requirements
Shock/Vibration	Category 1, class B
Class of supply voltage interruption	S2: 10 ms
Supply change-over class	C1: 100 ms
Useful life class	L4: 20 years
Degree of pollution	PD2
Over voltage category	OV2
Socket and edge connector	K2: Sockets for ICs and/or edge connectors are not used
Protective coating class	PC2: lacquered on both sides
Degree of protection	IP20

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Standards/Certifications

Standards

EN 50155:2021: Railway applications – Rolling stock – Electronic equipment
EN 50121-3-2:2016+A1:2019: Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus
EN 50124-1:2017: Railway applications – Insulation coordination – Part 1: Basic requirements – Clearances and creepage distances for all electrical and electronic equipment
EN 61373:1999: Railway applications – Rolling stock equipment – Shock and vibration tests
EN 61373:2010: Railway applications – Rolling stock equipment – Shock and vibration tests
EN 61373/AC:2017: Railway applications – Rolling stock equipment – Shock and vibration tests
IEC 62368-1:2014: Audio/video, information and communication technology equipment – Part 1: Safety requirements
EN 50153:2014: Railway applications – Rolling stock – Protective provisions relating to electrical hazards
EN 50533:2011+A1:2016: Railway applications – Three-phase train line voltage characteristics
EN 60077-1:2017: Railway applications – Electric equipment for rolling stock – Part 1: General service conditions and general rules
NF C61-314:2017: Plugs and socket-outlets for household and similar purposes - 6 A / 250 V and 16 A / 250 V
Regulation No. EMC 06: Technical Rules on Electromagnetic Compatibility - Verification of radio compatibility of rail vehicles with railroad radio services
EN 45545-2:2020: Railway applications – Fire protection on railway vehicles – Part 2: Requirements for fire behaviour of materials and components

Equipment/Spare parts

Accessories

Cover frame, pure white matte, Type CF-0034, part number 810034

Dimensions

