

Socket Outlet - EV-T2M3SE12-3AC32A-1,5M6,0E10 - 1622176

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Infrastructure Socket Outlet for charging electric vehicles with alternating current (AC), compatible with Infrastructure Plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), 12 V Locking actuator, Single wires, Length: 1.5 m, Screw connection of a hinged cover: Only rear mounting possible

Product Description

Infrastructure Socket Outlet for charging electric vehicles (EV) with alternating current (AC), compatible with type 2 Infrastructure Plugs, for installation at charging stations for E-Mobility (EVSE)

Key Commercial Data

Packing unit	1
GTIN	 4 055626 016146
GTIN	4055626016146
Custom tariff number	85444290

Technical data

Product definition

Product type	Infrastructure Socket Outlet for charging electric vehicles with alternating current (AC), compatible with Infrastructure Plugs
Type	Hinged cover screw connection at the rear
Standards/regulations	IEC 62196-2
Charging standard	Type 2
Charging mode	Mode 3, Case B
Type of charging current	AC 3-phase

Dimensions

Height	96 mm
Width	75 mm
Depth	76.2 mm
Bore dimensions	60 mm x 60 mm
Conductor length	1.50 m
Cable length of locking actuator	0.50 m

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Technical data

Dimensions

Cable structure	5x 6.0 mm ² + 2x 0.5 mm ²
Type of conductor	Single wires

Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. altitude	5000 m (above sea level)
Degree of protection	IP44 (plugged in)
	IP54 (with hinged cover, see accessories)

Electrical properties

Maximum charging power	22 kW
Number of phases	3
Number of power contacts	5 (L1, L2, L3, N, PE)
Rated current of power contacts	32 A
Rated voltage for power contacts	480 V AC
Number of signal contacts	2 (CP, PP)
Rated current for signal contacts	2 A
Rated voltage for signal contacts	30 V AC
Type of signal transmission	Pulse width modulation

Mechanical properties

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

Mounting

Possible mounting positions	Rear mounting, front mounting only possible when the locking actuator is removed (see EV-T2M3SE...E00 versions)
Restrictions to mounting position	Only 0 to 90 degree frontal inclination possible, see figure
Mounting position of the locking actuator	Top center
Screw connection of a hinged cover	Only rear mounting possible
Max. wall thickness	max. 50 mm (Rear panel mounting, normative maximum specification for infrastructure plug)
	max. 28 mm (Rear panel mounting, normative maximum specification for infrastructure plug when using the hinged cover 1405217)
	max. 10 mm (Front mounting, when using the locking mechanism)
Mounting hole diameter	7.00 mm (ø)

Design

Design line	Standard
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Technical data

Design

Housing color	black
Customer variations	On request

Material

Material	Plastic
Material surface of contacts	Ag

Locking

Locking type	Locking in the inserted state with a locking mechanism
Locking voltage	12 V
Locking detection	available
Mechanical emergency release	available

Locking actuator

Typical power supply at the motor	12 V
Possible power supply range at the motor	9 V ... 16 V
Typical motor current for locking	0.2 A
Max. reverse current of the motor	1 A
Max. dwell time with reverse current	1000 ms
Recommended adaptation time	600 ms
Pause time after entry or exit path	3 ms
Maximum voltage for locking detection	30 V
Service life	> 10000 load cycles
Ambient temperature (operation)	-30 °C ... 50 °C
Length of cable	0.5 m

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

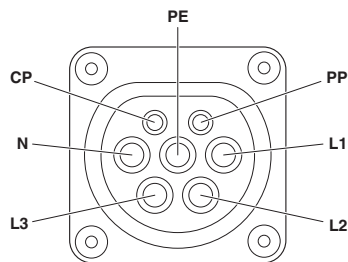
Drawings

Schematic diagram

Panel
thickness
for
front
mounting

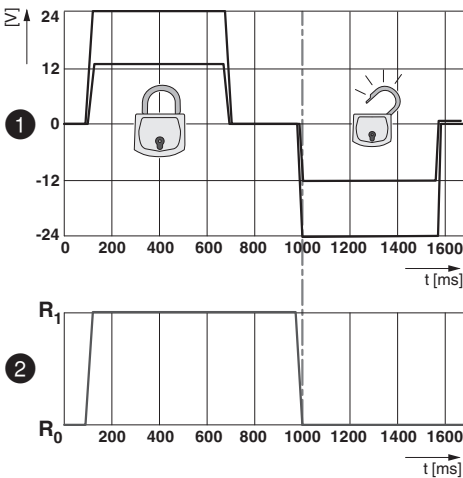
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Connection diagram



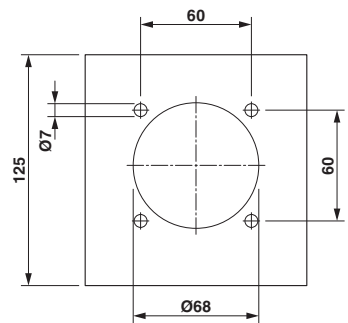
Pin assignment of Infrastructure Socket Outlet

Diagram



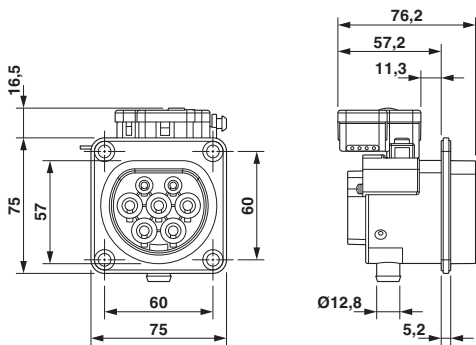
Locking states of Infrastructure Socket Outlet

Dimensional drawing



Hole image

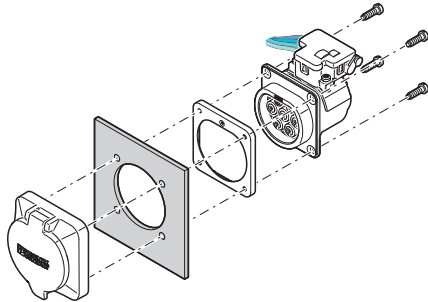
Dimensional drawing



Dimensional drawing

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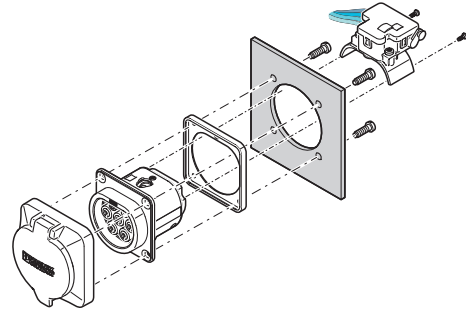
Schematic diagram



Rear mounting with rear hinged cover screw connection

The screw connection for a hinged cover from the accessories range (EV-T2SC) only supports rear mounting. The panel thickness must not exceed 5 mm. The sealing frame that is slid on from the rear must contact the housing wall flush with the flat side and must completely surround the Infrastructure Socket Outlet.

Schematic diagram

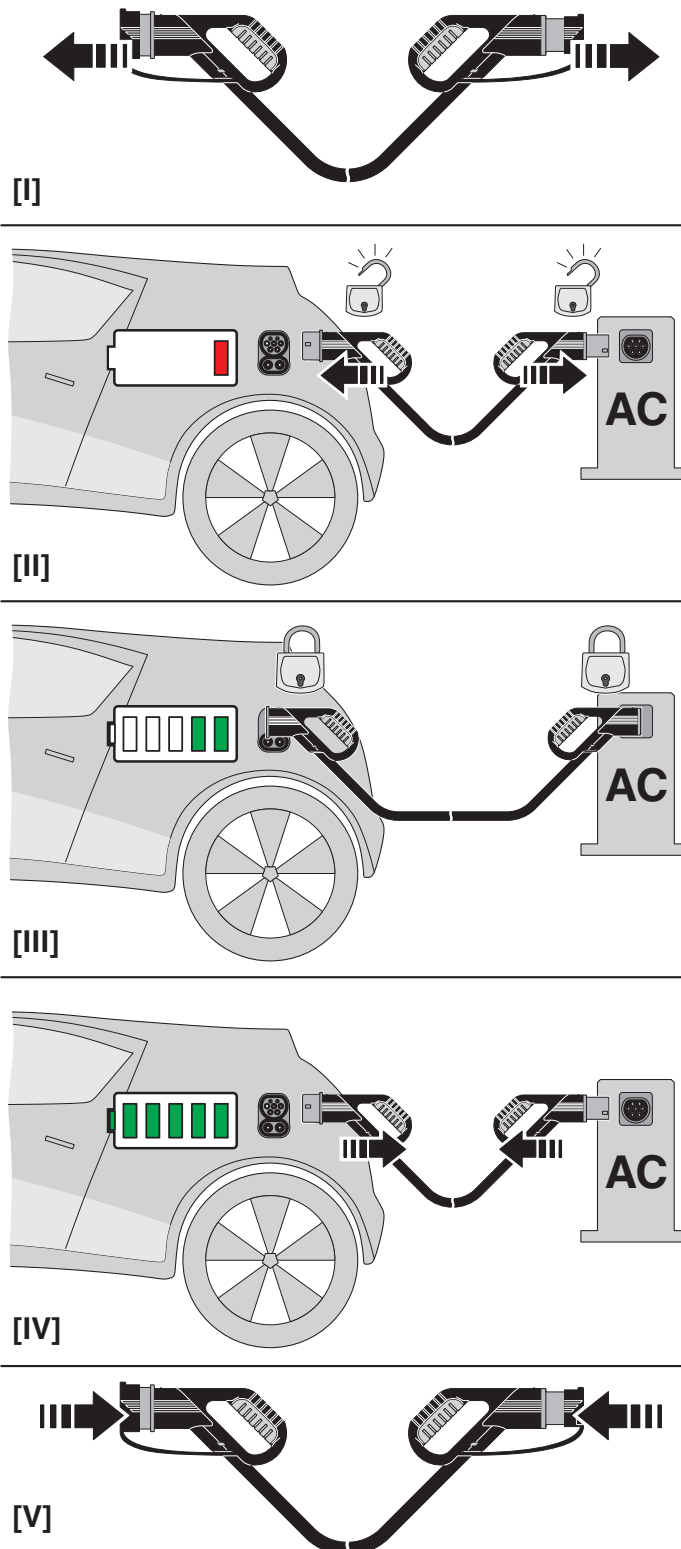


Front mounting with rear hinged cover screw connection

Front mounting is only possible when the locking actuator is removed. We recommend using an Infrastructure Socket Outlet without pre-assembled locking actuator (EV-T2M3SE-...E0..., e.g., 1621729). The screw connection for a hinged cover from the accessories range (EV-T2SC) only supports rear mounting. The panel thickness must not exceed 10 mm. The sealing frame that is slid on from the front must contact the housing wall flush with the flat side and must completely surround the Infrastructure Socket Outlet.

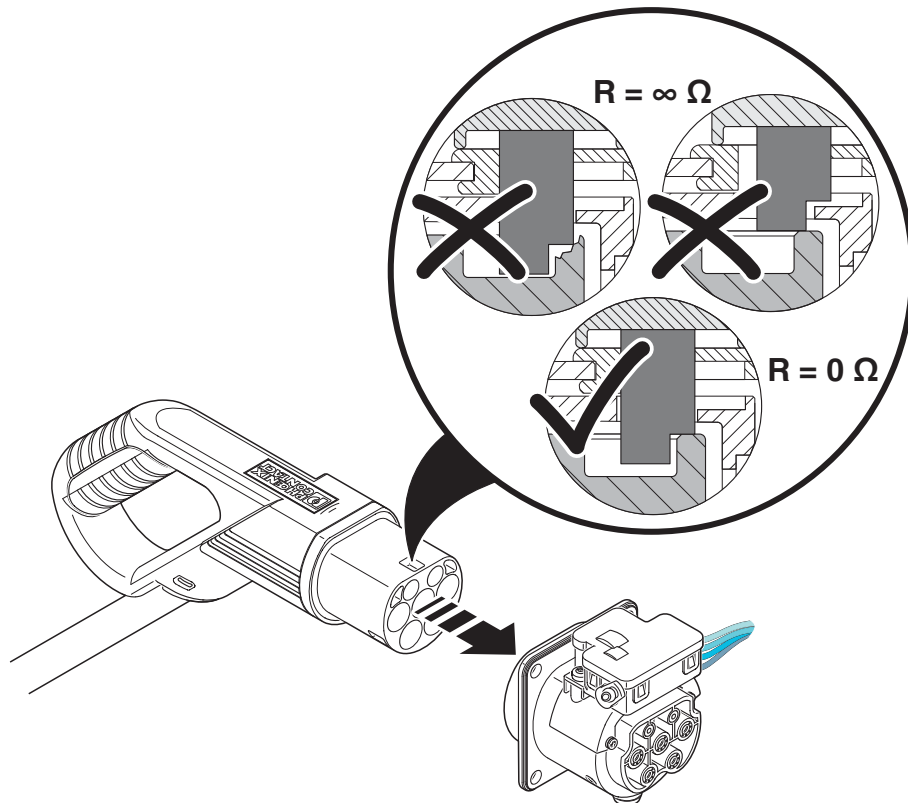
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Schematic diagram



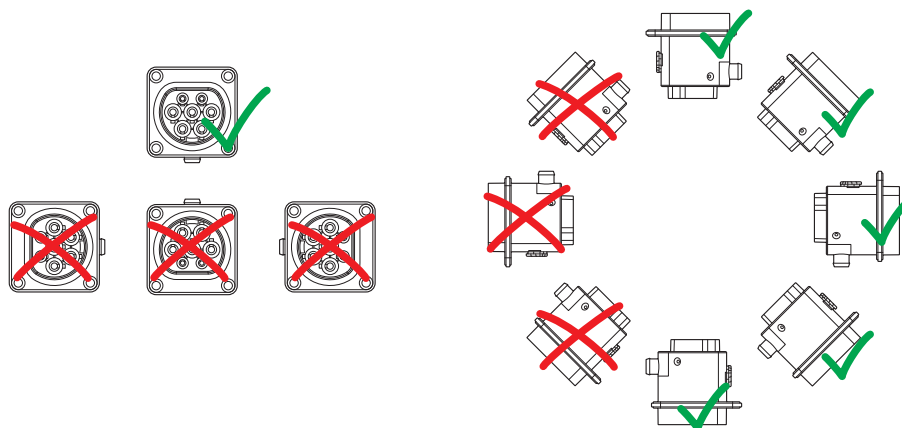
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Schematic diagram



Detection of the Infrastructure Plug

Schematic diagram



Installation positions

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Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27059110
eCl@ss 6.0	27279220
eCl@ss 7.0	27061801
eCl@ss 8.0	27440590
eCl@ss 9.0	27144706

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC002839
ETIM 6.0	EC002839

UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522

Approvals

Approvals

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VDE Zeichengenehmigung

Ex Approvals

Approval details

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Approvals

VDE Zeichengenehmigung		http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx	40041139
Nominal current I _N		32 A	
Nominal voltage U _N		480 V	

Accessories

Accessories

Panel mounting frame

Panel mounting frames - EV-T2SF - 1405218



Panel mounting frame for Infrastructure Socket Outlet, Type 2, IEC 62196-2, Thread: M5

Protective cover

Protective covers - EV-T2SC - 1405217



Self-closing hinged cover for Infrastructure Socket Outlet, Type 2, IEC 62196-2, Thread: M5

Protective covers - EV-GBSCO - 1623415



Self-opening hinged cover for Infrastructure Socket Outlet, GB/T, Type 2, GB/T 20234.2, IEC 62196-2

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Accessories

Protective covers - EV-GBSC - 1623416



Self-closing hinged cover for Infrastructure Socket Outlet, GB/T, Type 2, GB/T 20234.2, IEC 62196-2

Protective covers - EV-GBSC-D6,5MM - 1623888



Self-closing hinged cover for Infrastructure Socket Outlet, GB/T, Type 2, GB/T 20234.2, IEC 62196-2

Safety locking

Locking - EV-T2M3S-E-LOCK12V - 1624129



Locking actuator with 12 V power supply for Infrastructure Socket Outlets and Vehicle Inlets, IEC 61851-1, 12 V Locking actuator

Locking - EV-T2M3S-E-LOCK24V - 1622317



Locking actuator with 24 V power supply for Infrastructure Socket Outlets and Vehicle Inlets, IEC 61851-1, 24 V Locking actuator

Seal

Seal - EV-T2M3S-DRAINAGE-GASKET - 1621668

Seal for discharge nozzle below the Infrastructure Socket Outlet if there is no drainage tube , Type 2, IEC 62196-2

Seal - EV-T2M3S-E-LOCK-GASKET - 1621465

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Accessories

Seal for the mounting surface of the locking actuator above the Infrastructure Socket Outlet when there is no locking actuator present, Type 2, IEC 62196-2