Socket Outlet - EV-T2M3SE12-3AC32A-0,7M6,0E10 - 1405214

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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: 0.7 m, Rear panel mounting, 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)

Why buy this product

- Uniform, space-saving installation space of all Phoenix Contact Infrastructure Socket Outlets
- Silver-plated surface of the power and signal contacts
- Certified in accordance with IATF 16949:2016 and ISO 9001:2015
- Manual emergency release of the locking actuator
- Integrated interlock during charging

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 738477
GTIN	4046356738477

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
Note on the connection method	Crimp connection, cannot be disconnected

Dimensions

Height	96 mm

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Dimensions

Width	75 mm
Depth	76.2 mm
Bore dimensions	60 mm x 60 mm
Conductor length	0.7 m (AC cables)
	0.5 m (Locking actuator cables)
Cable structure	5x 6.0 mm² + 2x 0.5 mm²
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
Type of charging current	AC 3-phase
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 panel 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)

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Mounting

Mounting hole diameter	7.00 mm (ø)

Design

Design line	Standard
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 s
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

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

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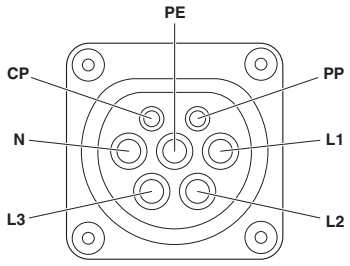
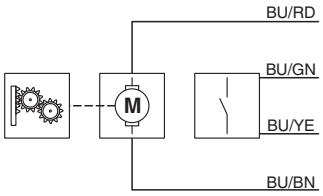
Connection diagram



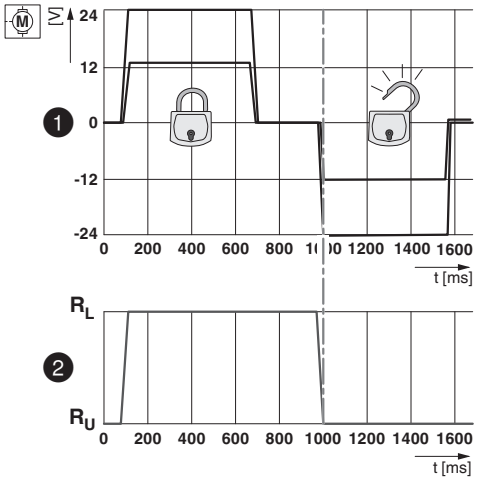
Pin assignment of Infrastructure Socket Outlet

Block diagram



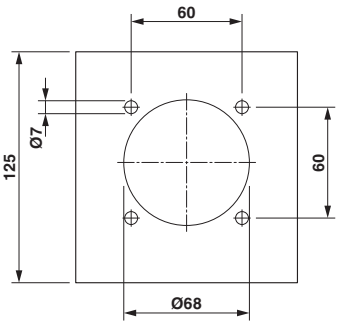
Block diagram of the locking actuator

Diagram



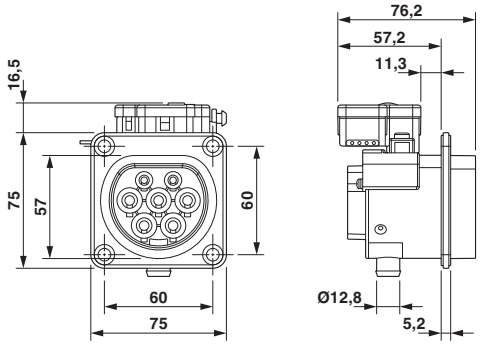
Locking states of the locking actuator

Dimensional drawing



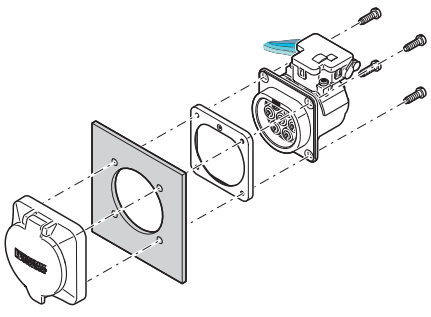
Hole image

Dimensional drawing



Dimensional drawing

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.

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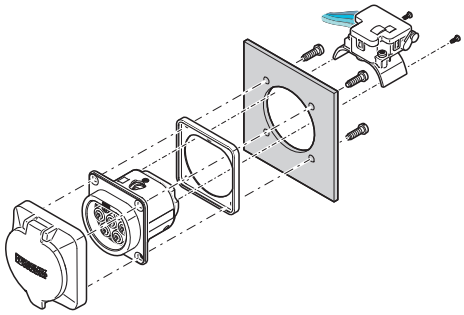
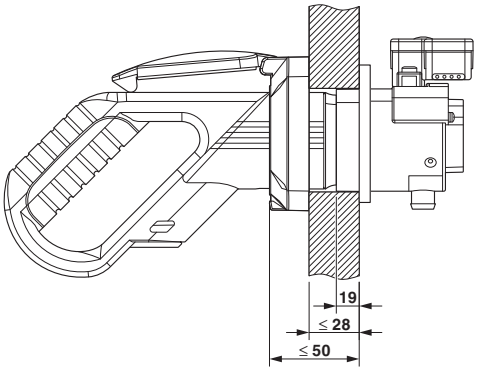
Schematic diagram



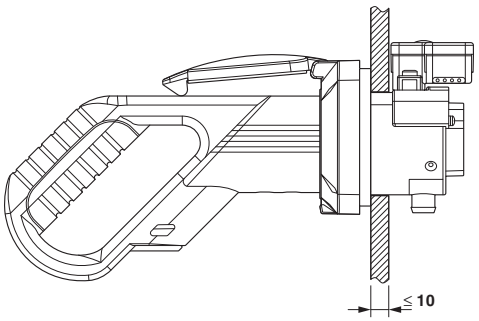
Front mounting with rear hinged cover screw connection
Front mounting is only possible when the locking actuator is removed. We recommend using an Infrastructure Socket Outlet without pre-assembled locking actuator (EV-T2M3SE-...E0..., e.g., 1621729). The screw connection for a hinged cover from the 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.

Schematic diagram



Panel thickness for rear mounting (max. 50 mm, with Phoenix Contact protective cover, max. 22 mm)

Schematic diagram



Panel thickness for front mounting (in mm)

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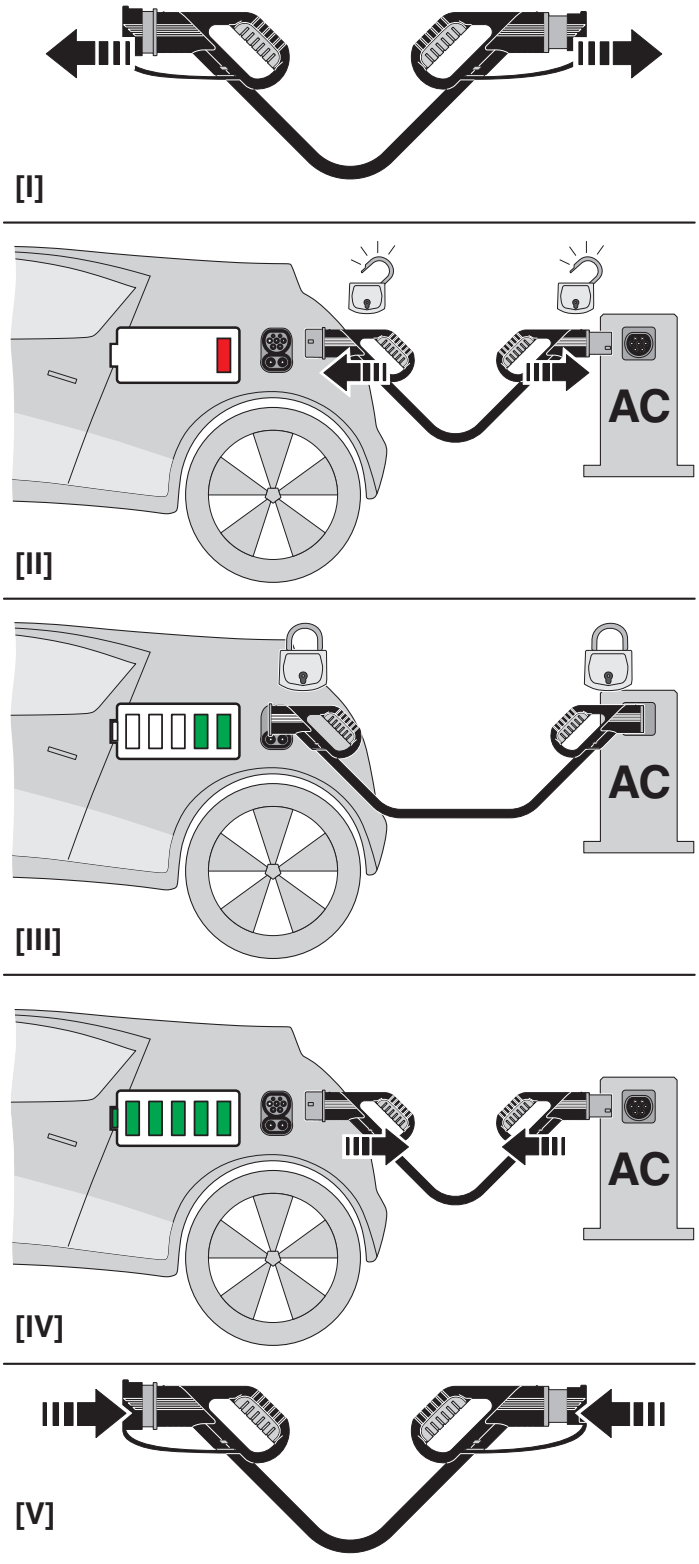
Schematic diagram



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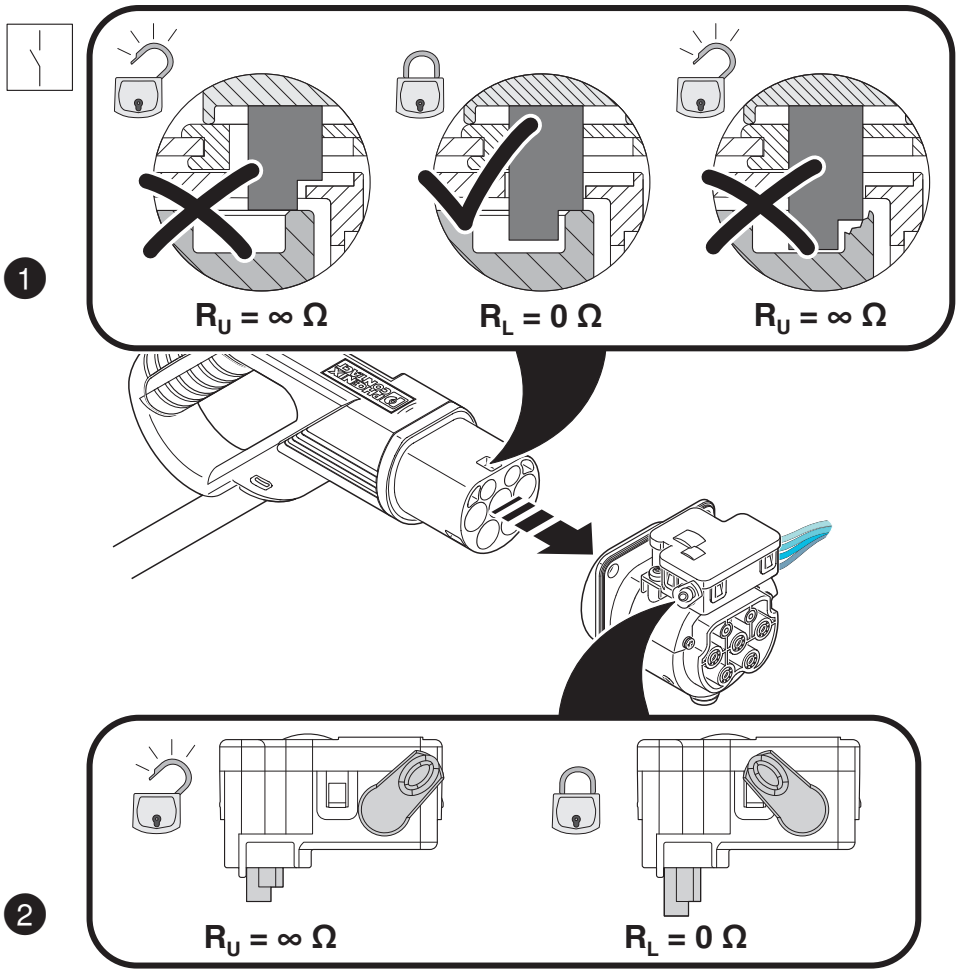
Schematic diagram



Detection of the Infrastructure Plug

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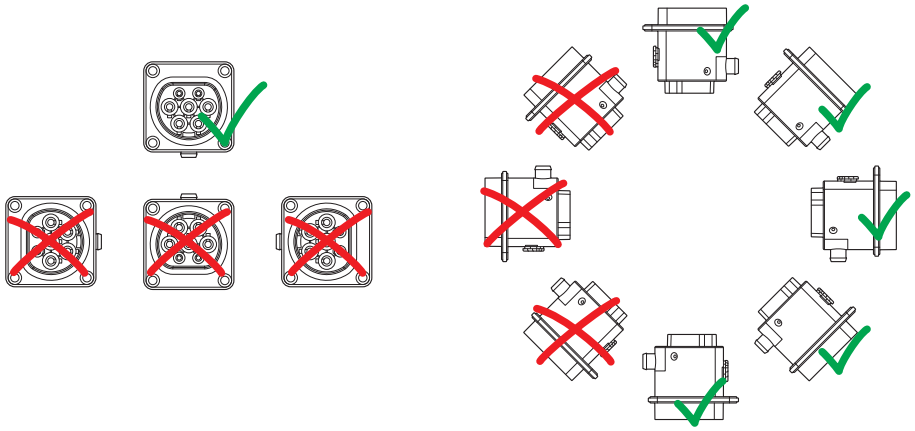
Schematic diagram



Installation positions

Approvals

Approvals

Approvals

VDE approval of drawings

Ex Approvals

Approval details

VDE approval of drawings		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40041139

Nominal voltage UN	480 V
Nominal current IN	32 A

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