

Socket Outlet - EV-T2M3SE12-3AC32A-0,7M6,0E14 - 1627693

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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, Front protective cover screw connection, Optimized insertion and withdrawal forces

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)

Your advantages

- ✓ 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
- ✓ Quick and easy front mounting of an optional protective cover
- ✓ Manual emergency release of the locking actuator
- ✓ Integrated interlock during charging

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 357201
GTIN	4055626357201

Technical data

Product definition

Product type	Infrastructure Socket Outlet for charging electric vehicles with alternating current (AC), compatible with Infrastructure Plugs
Type	Front protective cover screw connection
Standards/regulations	IEC 62196-2
Charging standard	Type 2
Charging mode	Mode 3, Case B
Note	Optimized insertion and withdrawal forces
Note on the connection method	Crimp connection, cannot be disconnected

Socket Outlet - EV-T2M3SE12-3AC32A-0,7M6,0E14 - 1627693

Technical data

Dimensions

Height	96 mm
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 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 protective 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
Note on the connection method	Crimp connection, cannot be disconnected

Mechanical properties

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N (Optimized)
Withdrawal force	< 100 N (Optimized)

Mounting

Possible mounting positions	Rear panel mounting
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 protective cover	only possible on the front
Max. wall thickness	max. 50 mm (Rear panel mounting, normative maximum specification for infrastructure plug)
	max. 22 mm (Rear panel mounting, normative maximum specification for infrastructure plug when using the protective cover (Order No. 1627635) with fastening frame (Order No. 1627637))

Socket Outlet - EV-T2M3SE12-3AC32A-0,7M6,0E14 - 1627693

Technical data

Mounting

Mounting hole diameter	7.00 mm (ø)
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Design

Design line	Easy Mount
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

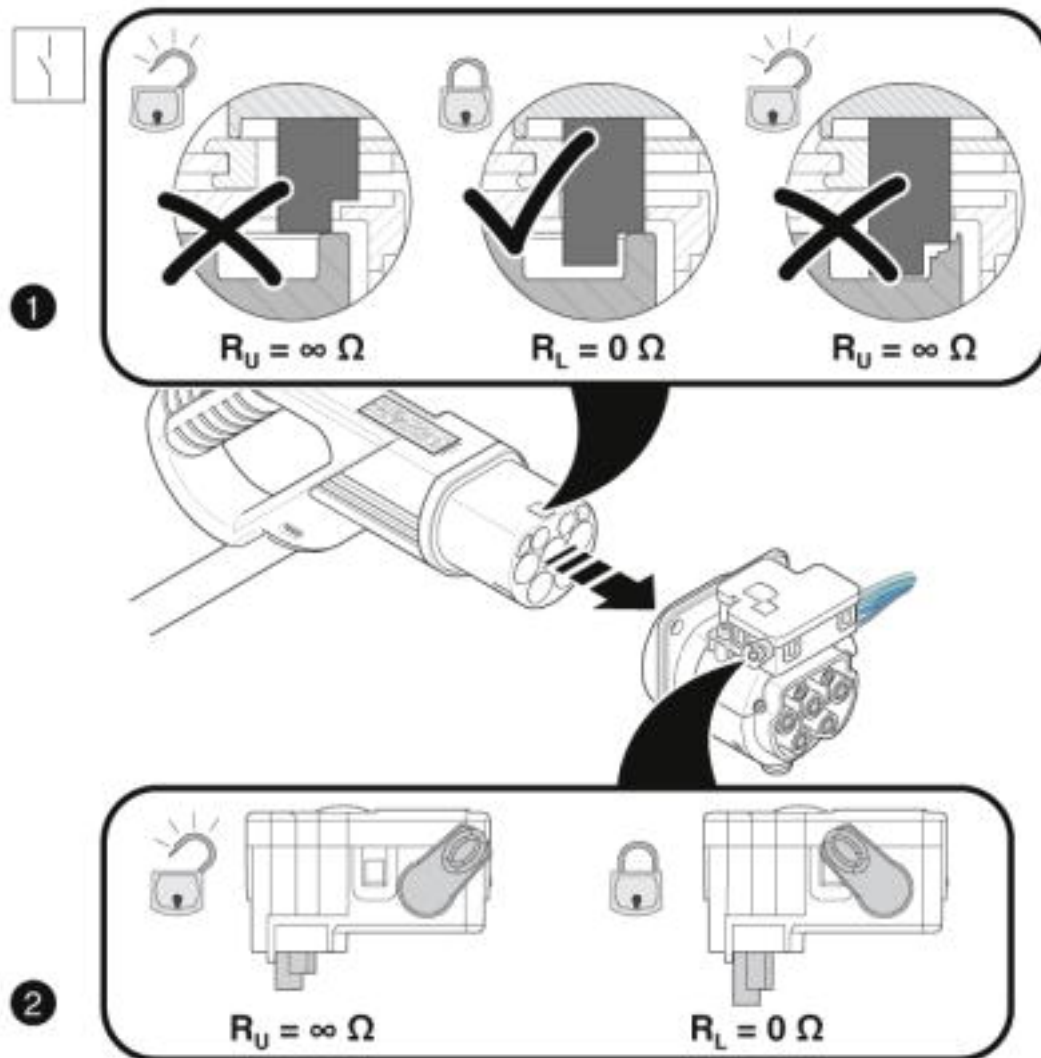
Environmental Product Compliance

	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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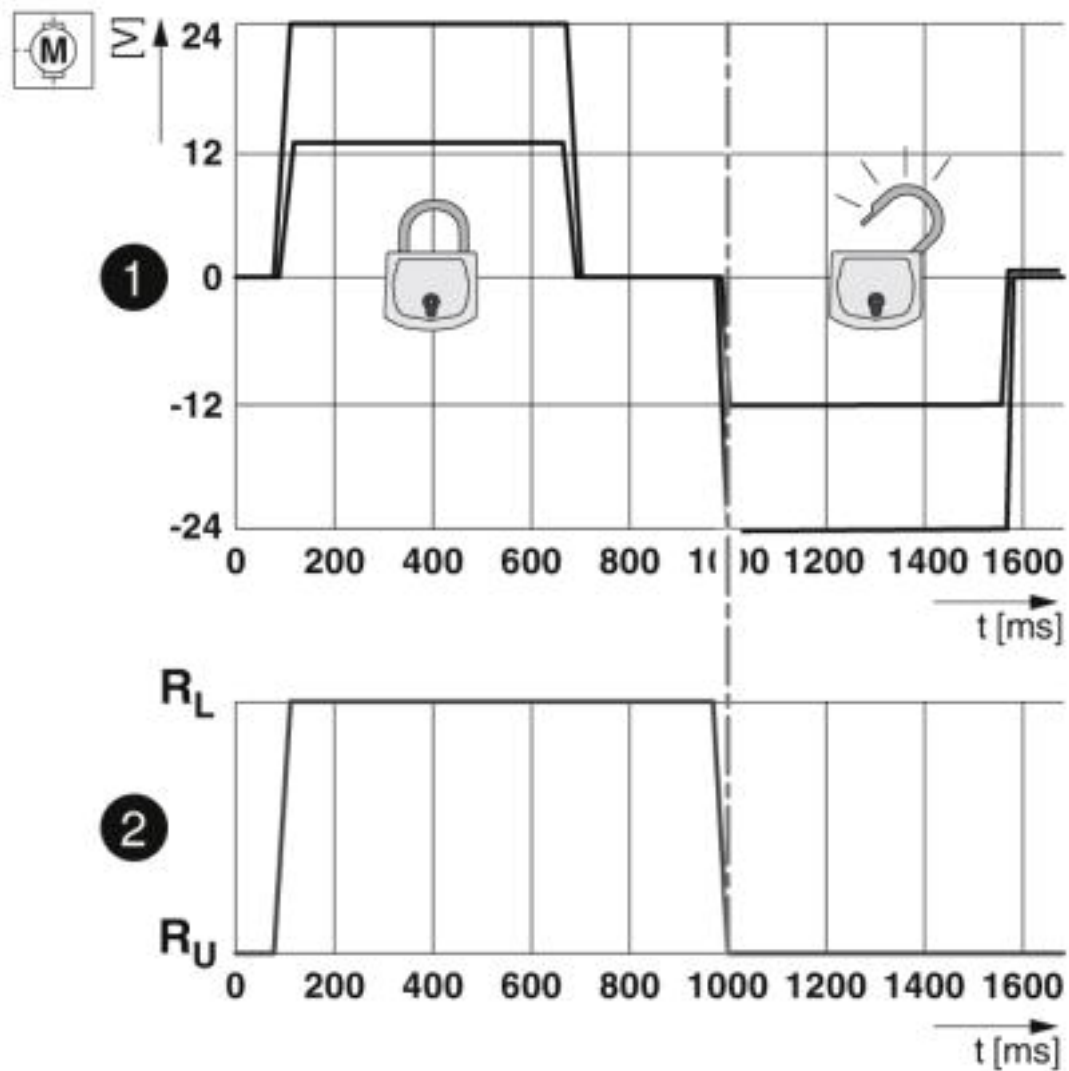
Schematic diagram



Detection of the Infrastructure Plug

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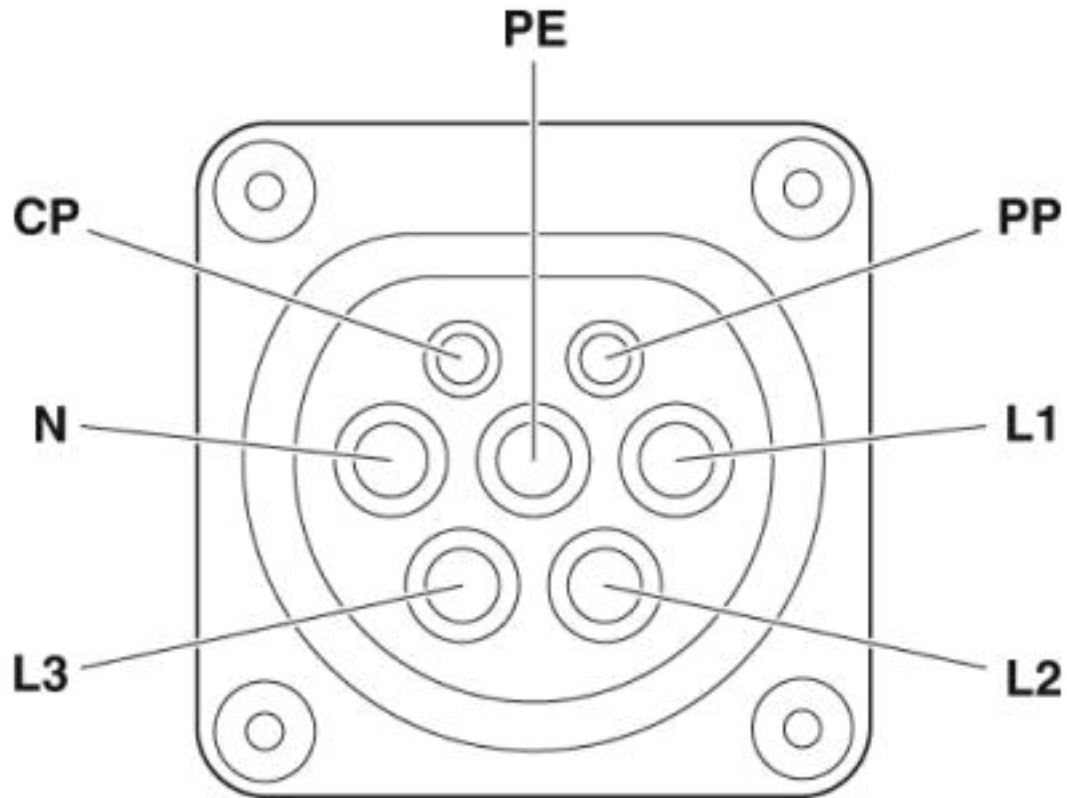
Diagram



Locking states of the locking actuator

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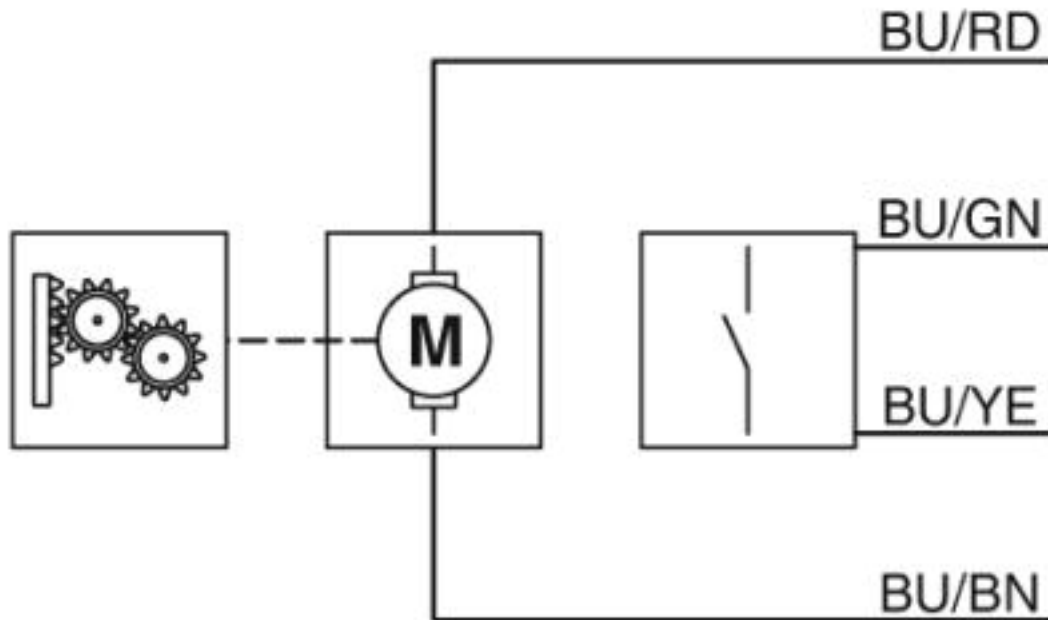
Connection diagram



Pin assignment of Infrastructure Socket Outlet

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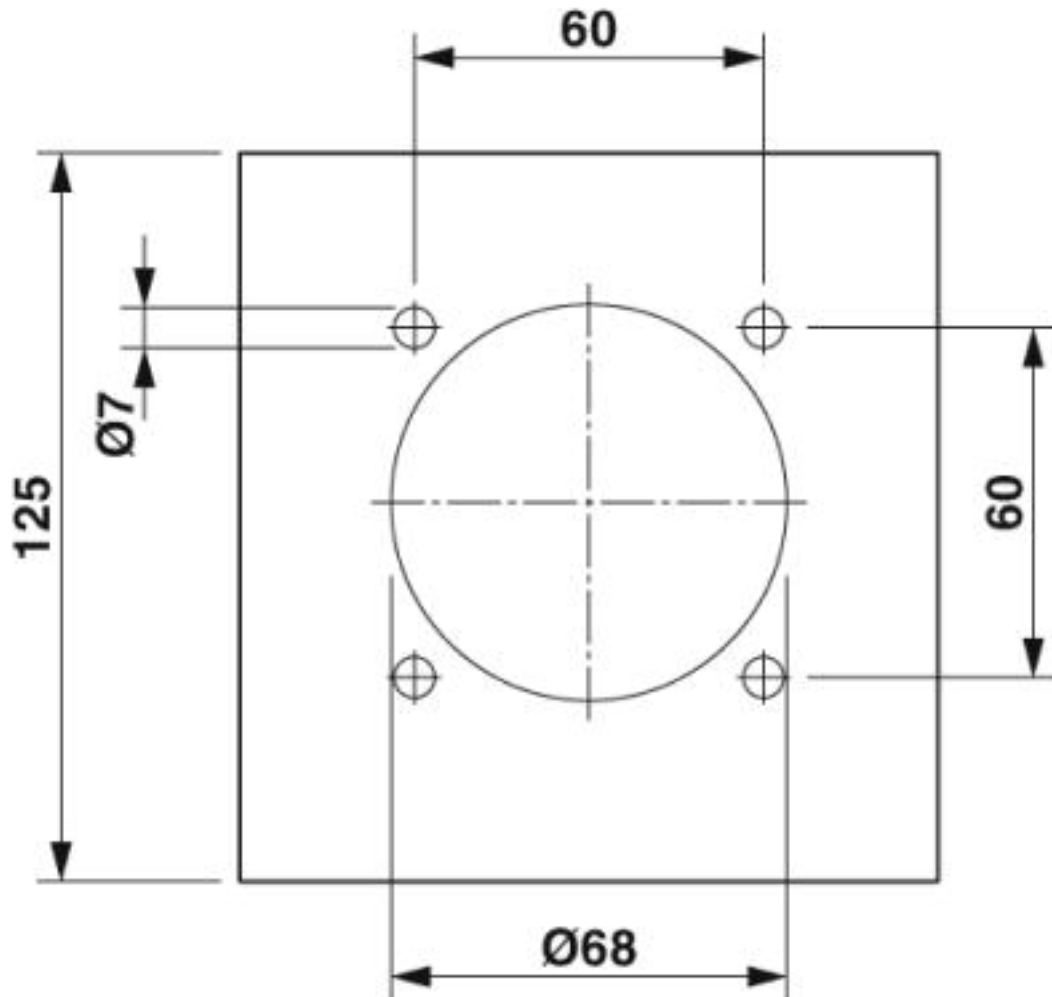
Block diagram



Block diagram of the locking actuator

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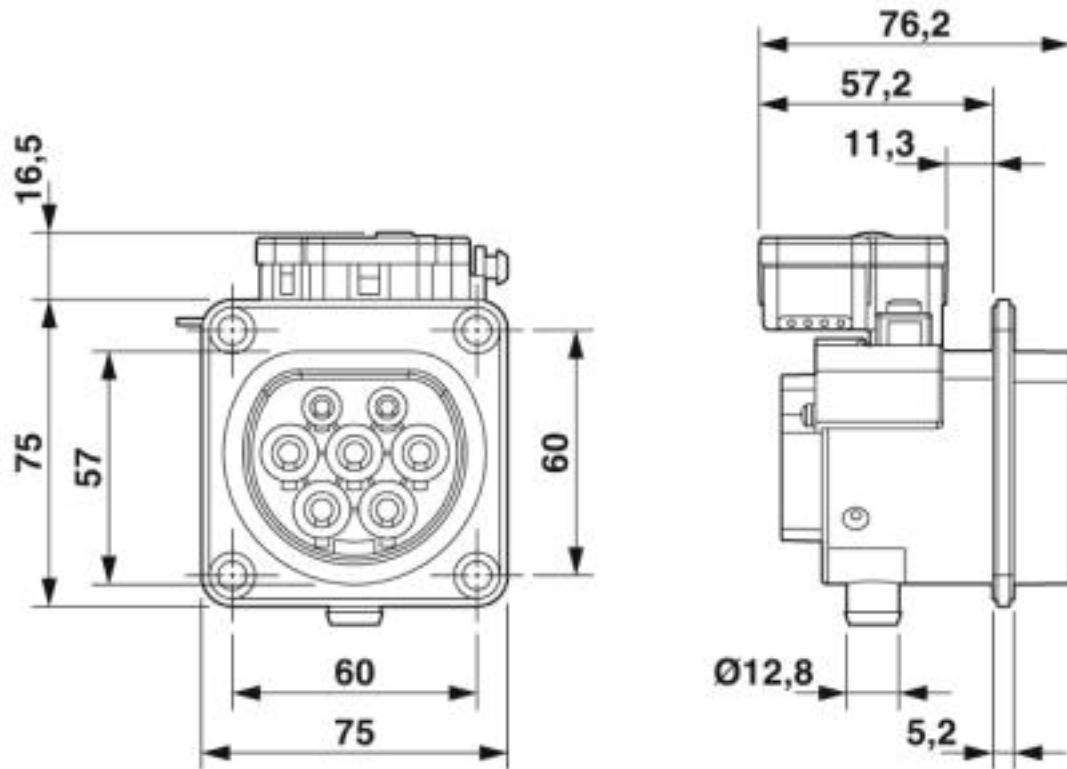
Dimensional drawing



Hole image

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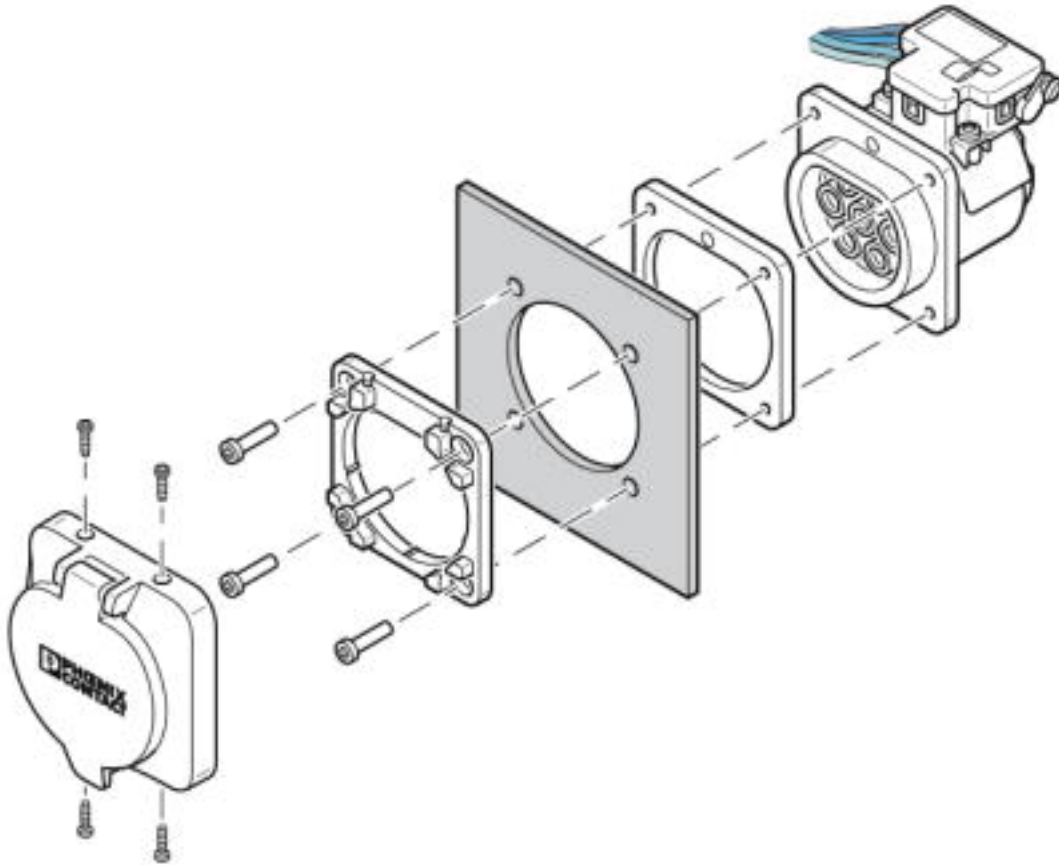
Dimensional drawing



Dimensional drawing

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Schematic diagram

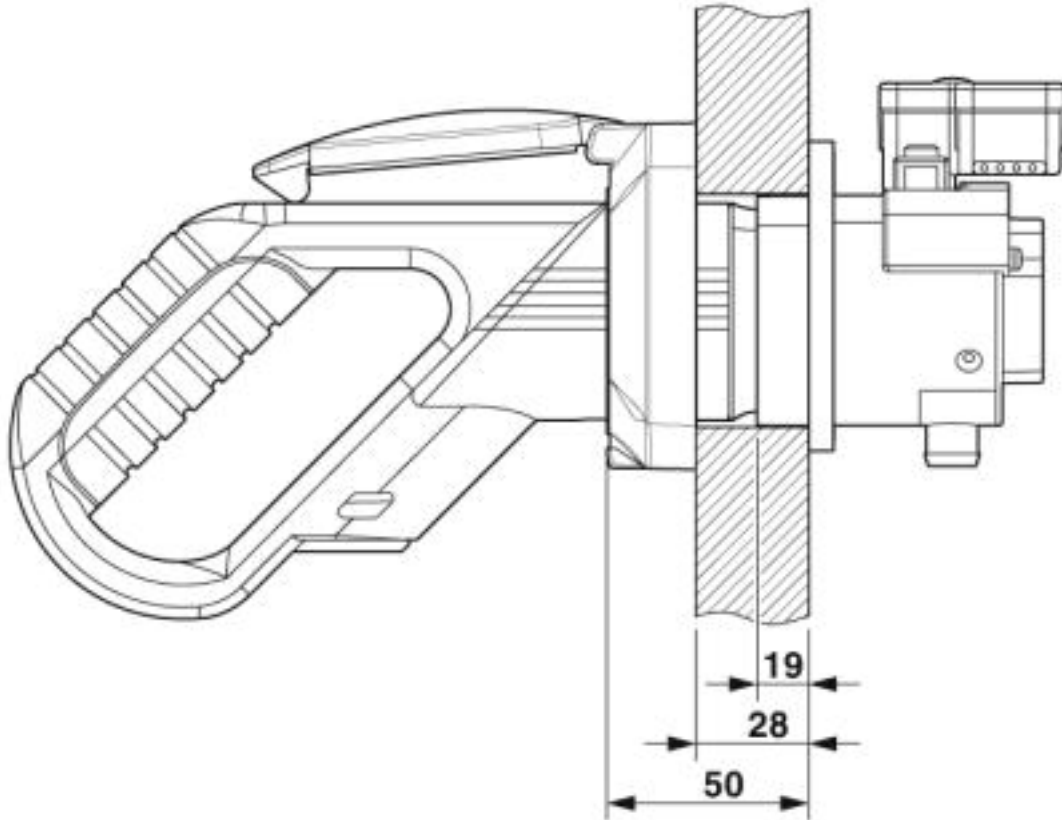


Rear mounting with front protective cover screw connection

The screw connection for a protective cover (EV-T2SC-EM) from the accessories range only supports front mounting with a corresponding fixing frame (EV-T2SF-EM). The panel thickness must not exceed 5 mm. The sealing frame that is slid on from the rear must contact the housing panel flush with the flat side and must completely surround the infrastructure socket outlet.

Socket Outlet - EV-T2M3SE12-3AC32A-0,7M6,0E14 - 1627693

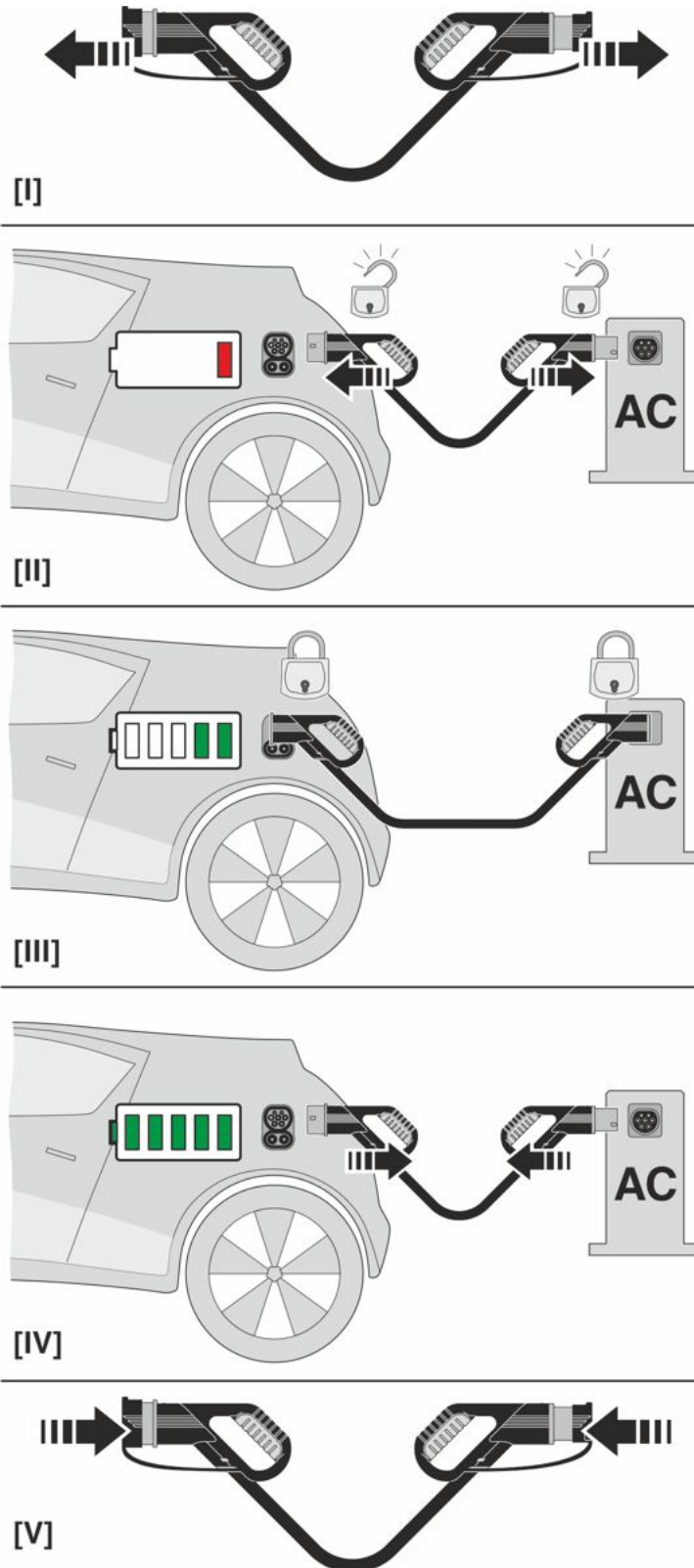
Schematic diagram



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

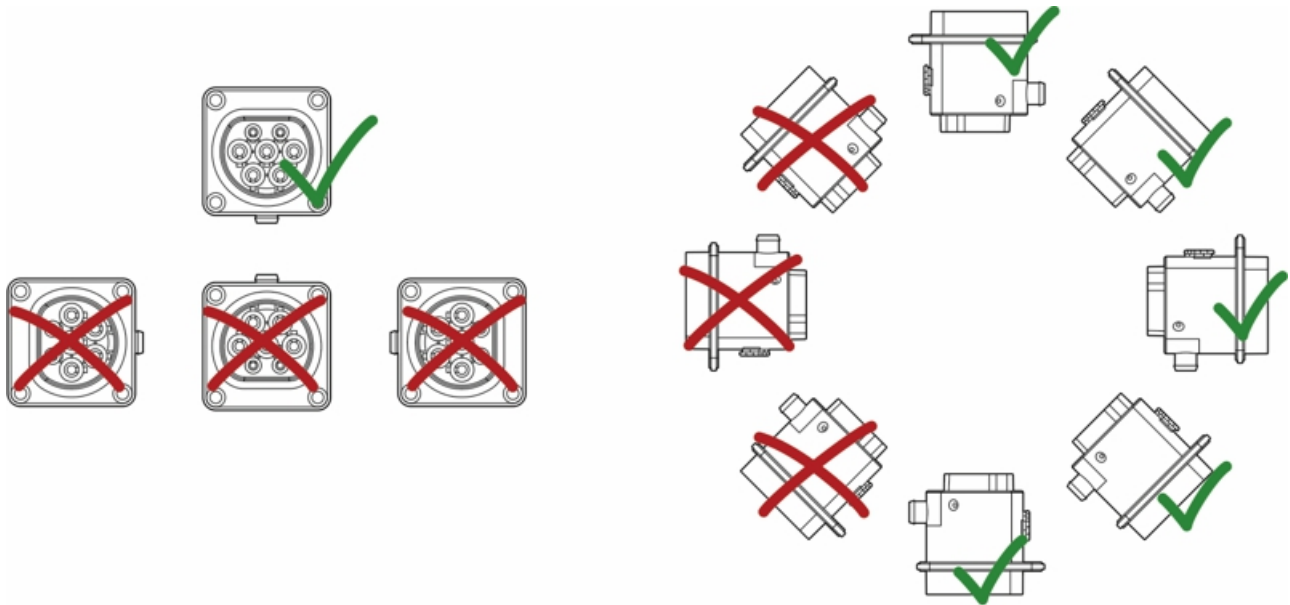
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Schematic diagram



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Schematic diagram



Installation positions

Approvals

Approvals

Approvals

VDE Zeichengenehmigung

Ex Approvals

Approval details

Socket Outlet - EV-T2M3SE12-3AC32A-0,7M6,0E14 - 1627693

Approvals

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40037319
Nominal voltage UN		250 V	
Nominal current IN		20 A	
mm²/AWG/kcmil		2.5	

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