

# Socket Outlet - EV-T2M3SE24-3AC32A-0,5M6,0E11 - 1409681

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Socket Outlet, rear protective cover screw connection, Additional splash protection at the rear with single wire seals, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: 0.5 m, Locking actuator: 24 V, 4-position, Rear panel mounting, Generation 1, "PHOENIX CONTACT" logo

## 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
- ✔ Manual emergency release of the locking actuator
- ✔ Integrated interlock during charging



## Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356872645

## Technical data

### Product definition

Type	rear protective cover screw connection
	Additional splash protection at the rear with single wire seals
Application	For charging electric vehicles (EV) with alternating current (AC)
	Compatible with infrastructure charging plugs
Affixed logo	"PHOENIX CONTACT" logo
Design	Generation 1
Standards/regulations	IEC 62196-2
Charging standard	Type 2
Charging mode	Mode 3, Case B

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## Technical data

### Product definition

Note on the connection method	Crimp connection, cannot be disconnected
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### Dimensions

Height	96 mm
Width	75 mm
Depth	76.2 mm
Bore dimensions	60 mm x 60 mm
Conductor length	0.5 m (AC cables)
	0.5 m (Locking actuator cables)
Cable structure	5x 6.0 mm <sup>2</sup> + 2x 0.5 mm <sup>2</sup>
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)
	IP44 (On the rear)

### 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
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

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## Technical data

### Mounting

Screw connection of a protective cover	Only rear mounting possible
Max. wall thickness	max. 50 mm (Rear panel mounting, normative maximum specification for infrastructure plug)
	max. 28 mm (Rear mounting, normative maximum specification for infrastructure plug when using protective cover 1405217)
	max. 10 mm (Front mounting, when using the locking mechanism)
Mounting hole diameter	7.00 mm (ø)

### Design

Design line	Generation 1
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
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### Locking actuator

Number of positions of the connectors	4
Operating voltage	24 V (Typical power supply at the motor)
Possible power supply range at the motor	22 V ... 26 V
Maximum voltage for locking detection	30 V
Typical motor current for locking	0.05 A
Reverse current of the motor	max. 0.5 A
Max. dwell time with reverse current	1000 ms
Recommended adaptation time	600 ms
Pause time after entry or exit path	3 s
Service life insertion cycles	> 10000 load cycles
Ambient temperature (operation)	-30 °C ... 50 °C
Cable length	0.5 m
Cable structure	4 x 0.5 mm <sup>2</sup>
Lock recognition	available
Mechanical emergency release	available

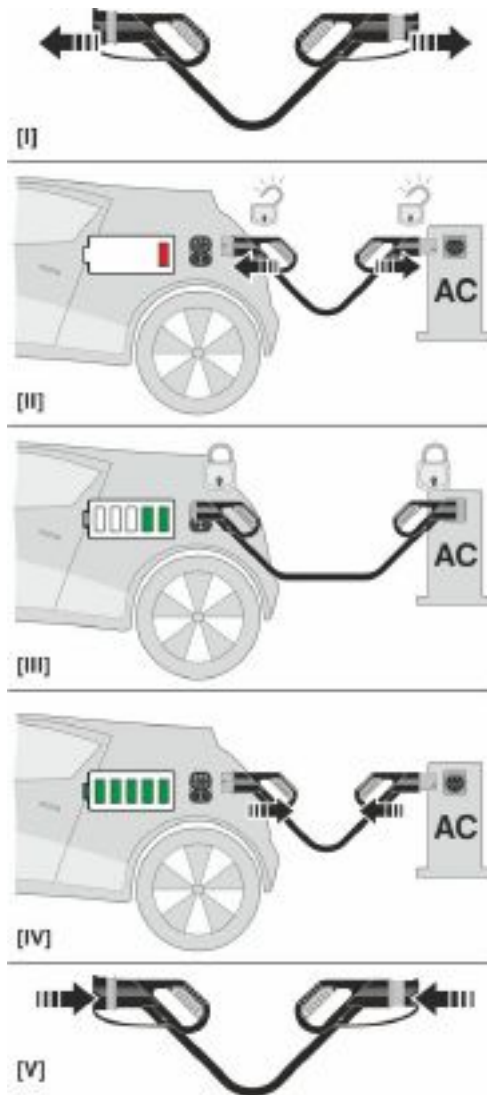
### Environmental Product Compliance

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

# Socket Outlet - EV-T2M3SE24-3AC32A-0,5M6,0E11 - 1409681

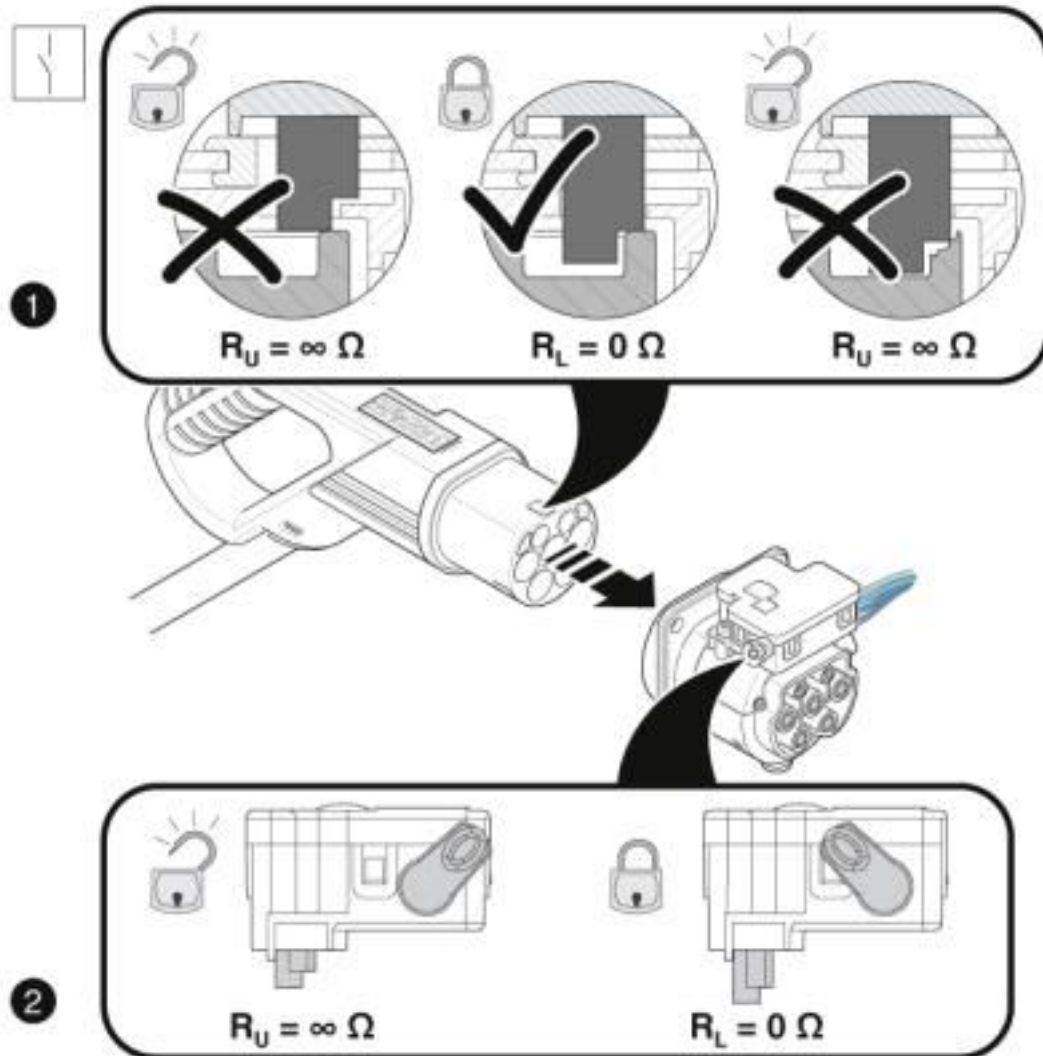
Schematic diagram



Operating instructions

# Socket Outlet - EV-T2M3SE24-3AC32A-0,5M6,0E11 - 1409681

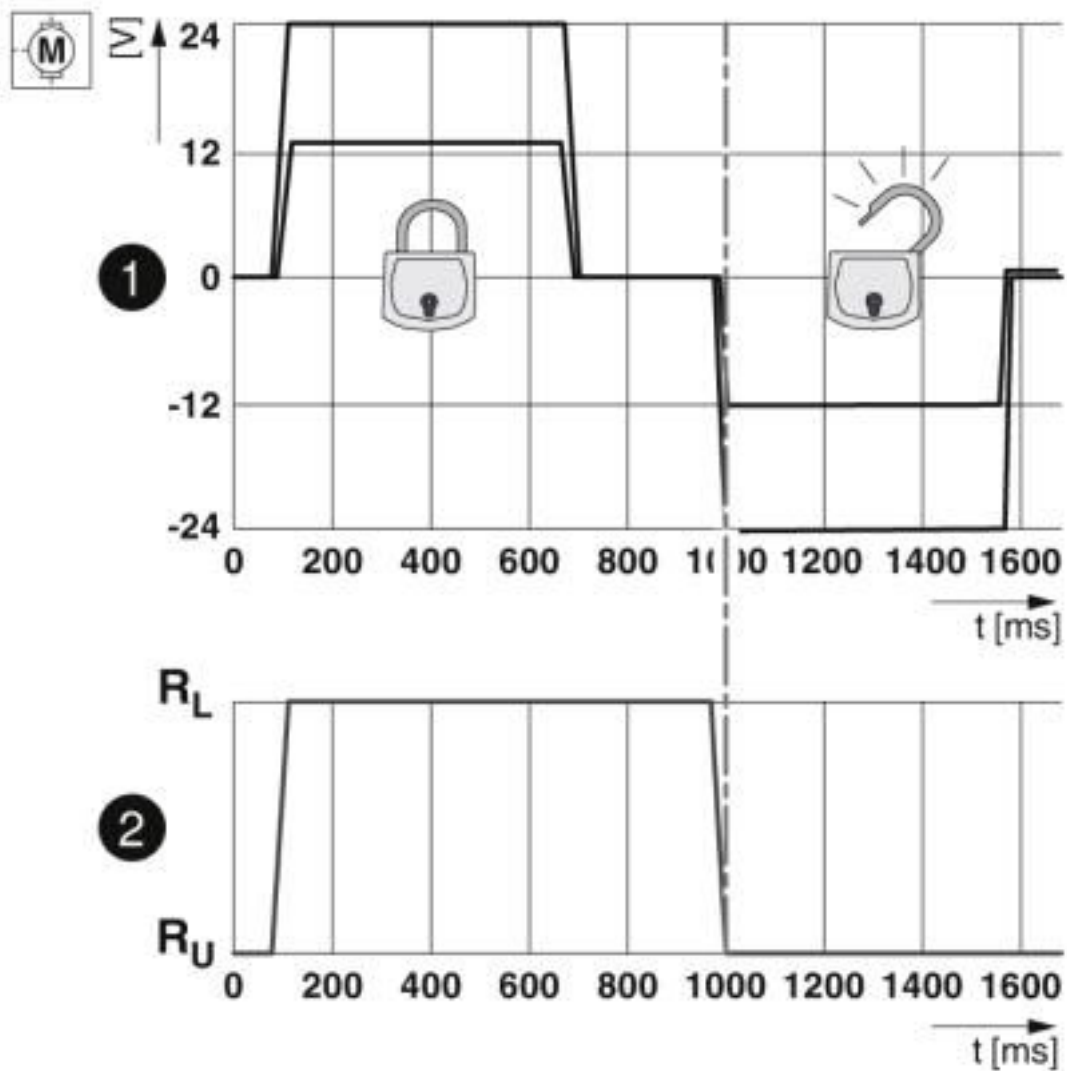
Schematic diagram



Detection of the Infrastructure Plug

# Socket Outlet - EV-T2M3SE24-3AC32A-0,5M6,0E11 - 1409681

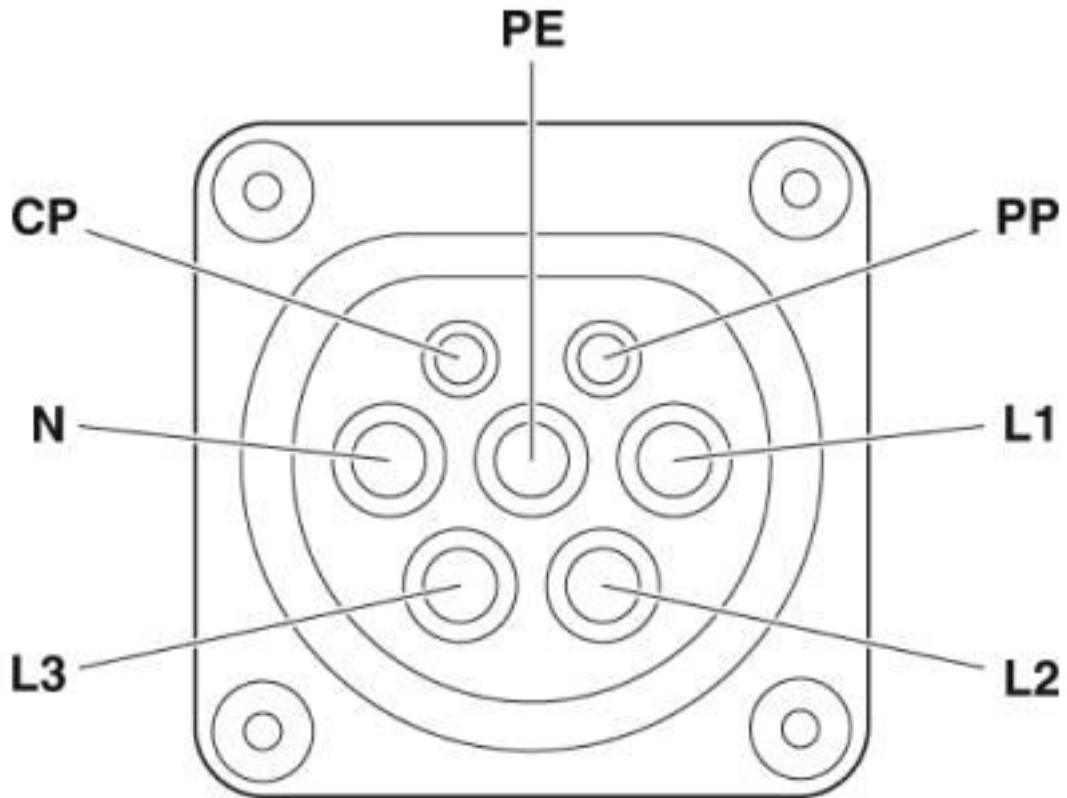
Diagram



Locking states of the locking actuator

# Socket Outlet - EV-T2M3SE24-3AC32A-0,5M6,0E11 - 1409681

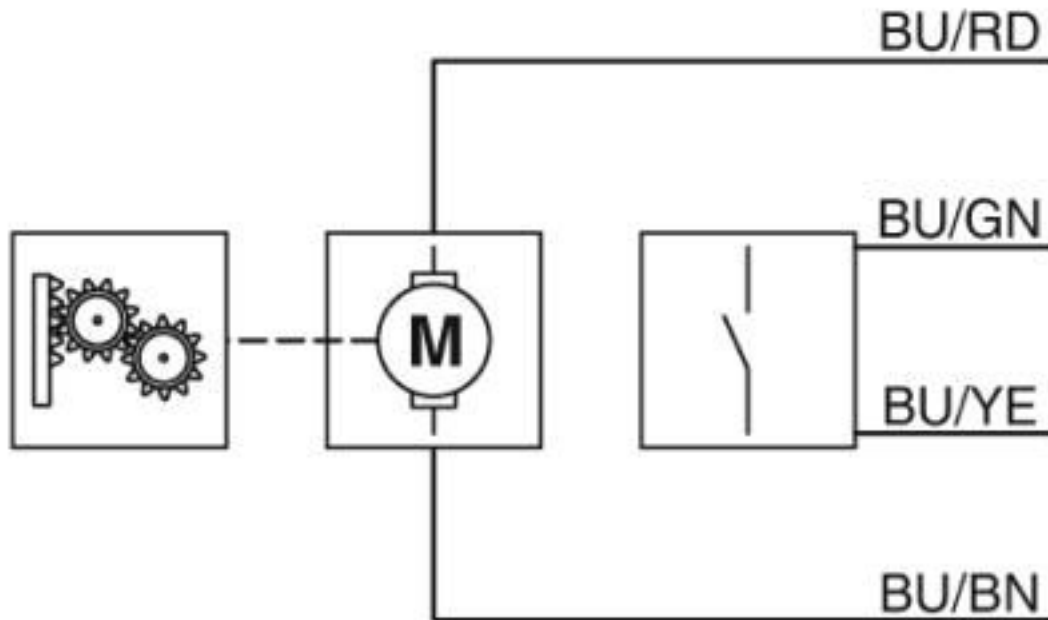
Connection diagram



Pin assignment of Infrastructure Socket Outlet

# Socket Outlet - EV-T2M3SE24-3AC32A-0,5M6,0E11 - 1409681

Block diagram

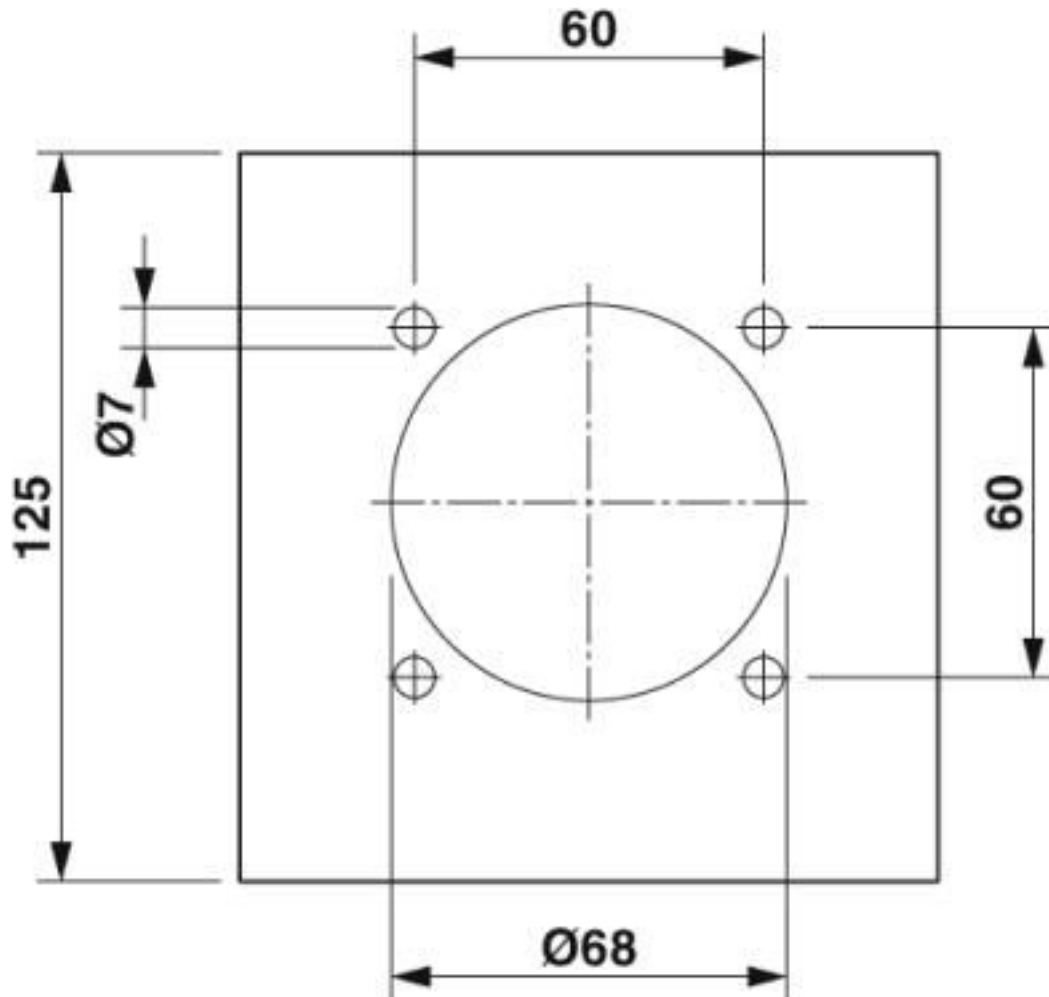


Block diagram of the locking actuator



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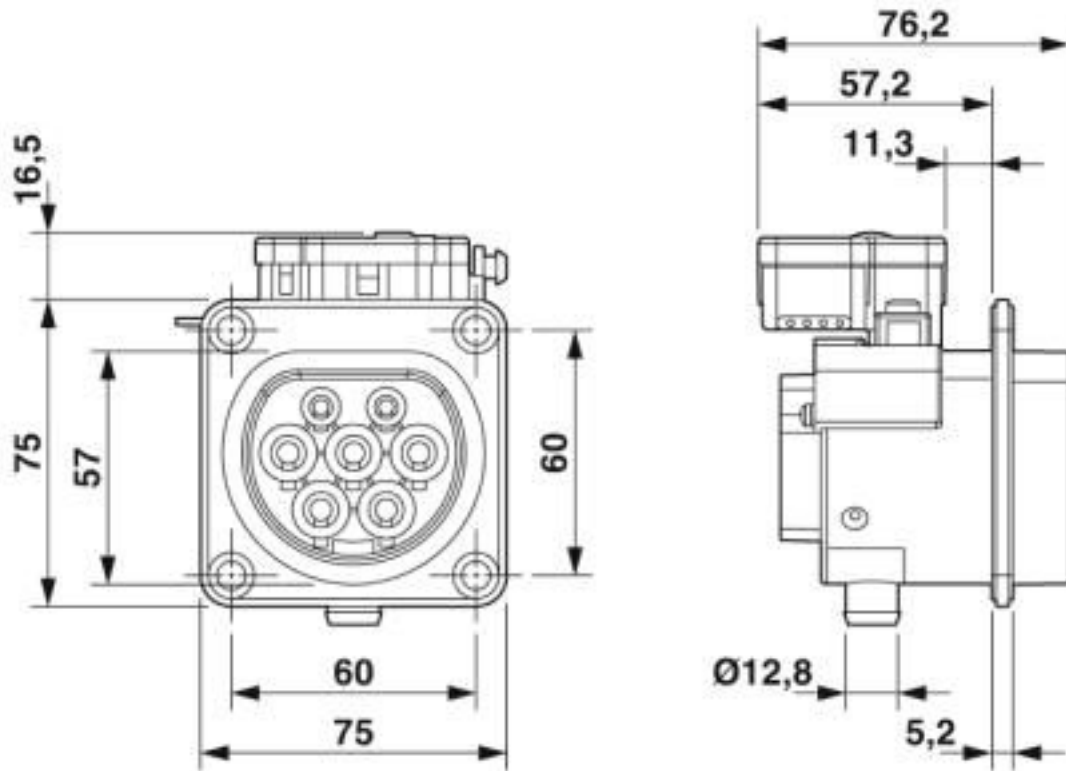
Dimensional drawing



Hole image

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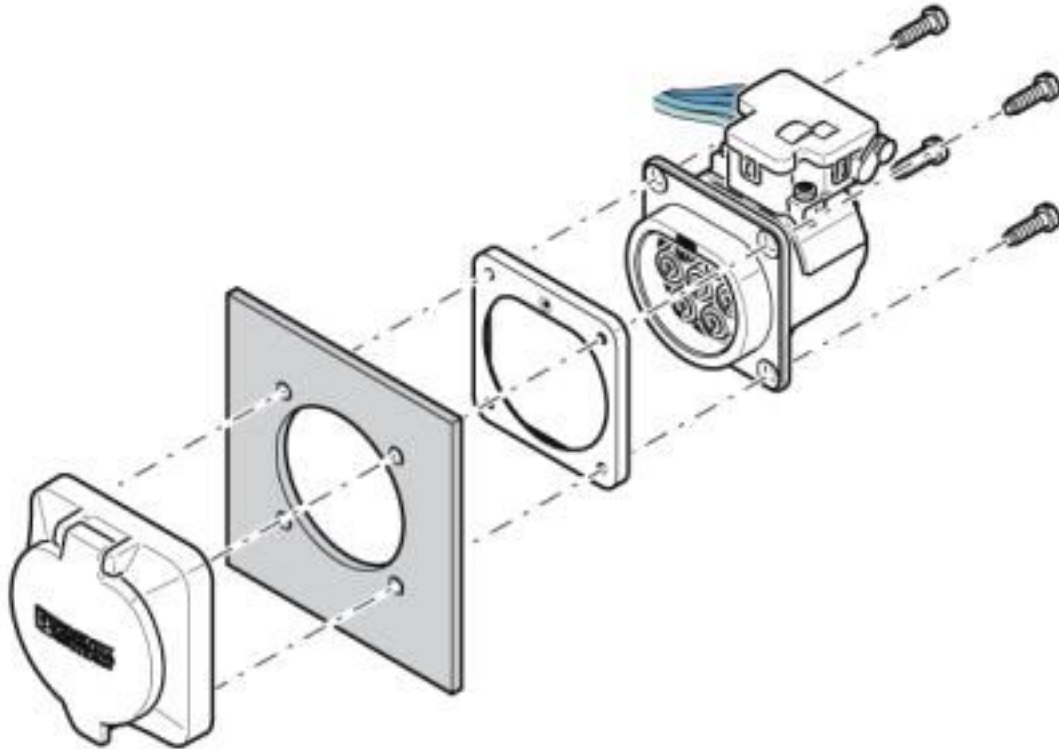
Dimensional drawing



Dimensional drawing

## Socket Outlet - EV-T2M3SE24-3AC32A-0,5M6,0E11 - 1409681

Schematic diagram

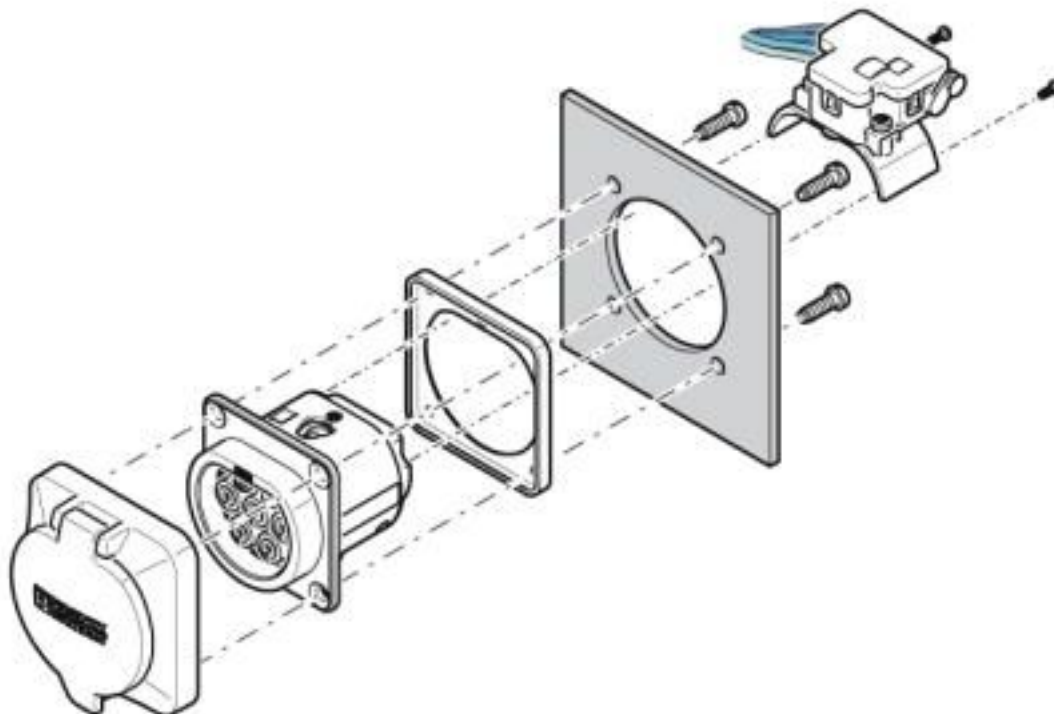


### Rear mounting with rear protective cover screw connection

The screw connection for a protective 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 panel flush with the flat side and must completely surround the infrastructure socket outlet.

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Schematic diagram

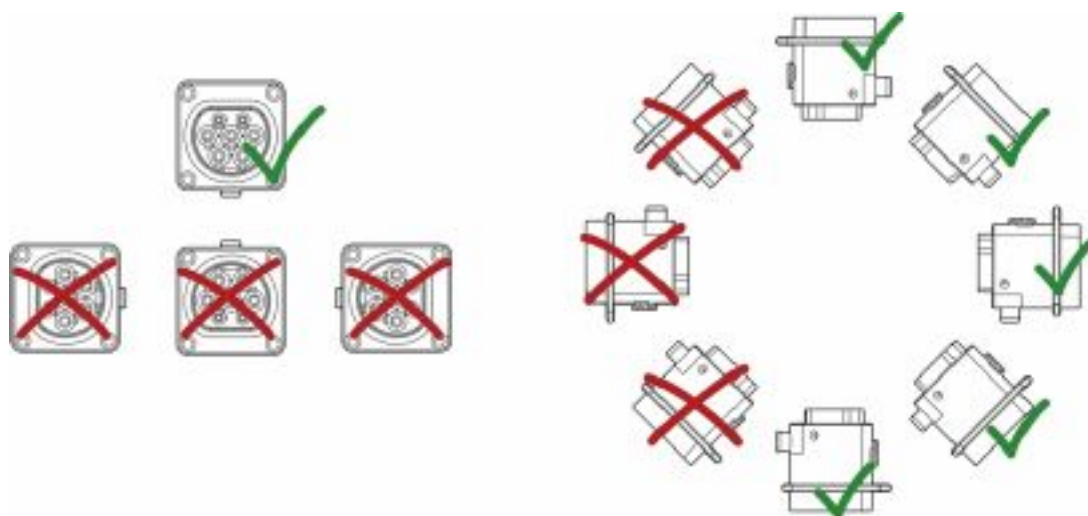


### Front mounting with rear protective cover screw connection

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 protective 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 panel flush with the flat side and must completely surround the infrastructure socket outlet.

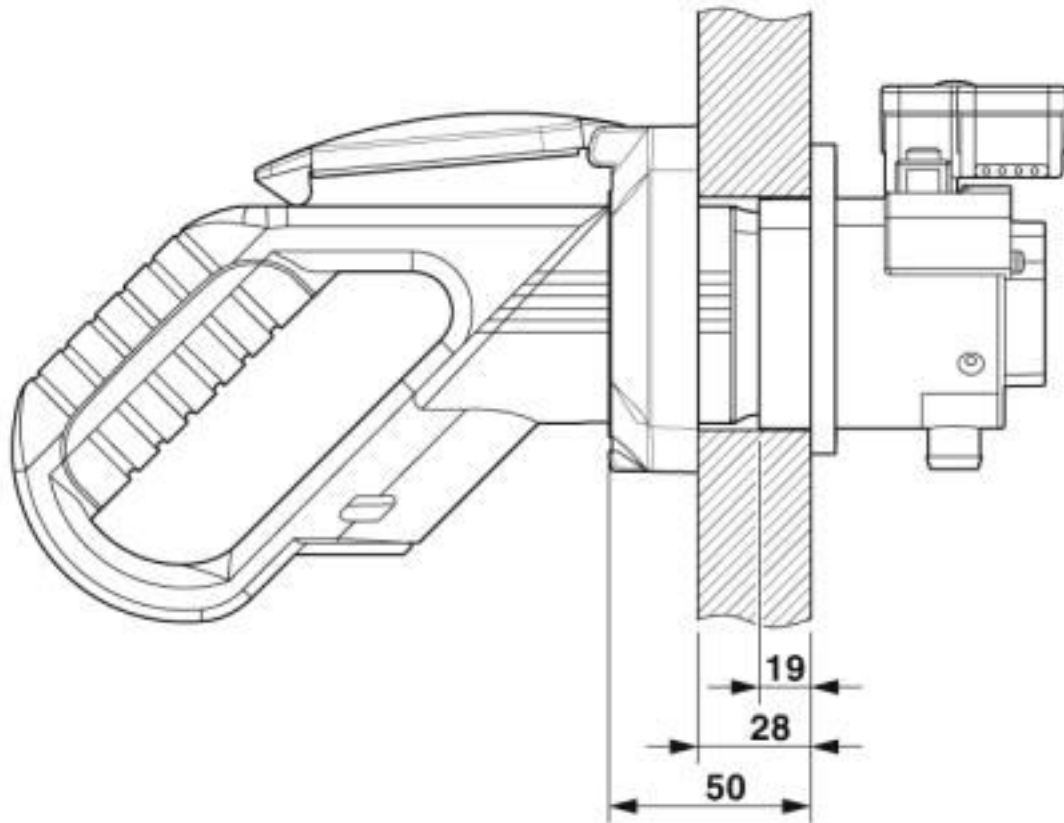
Schematic diagram



### Installation positions

# Socket Outlet - EV-T2M3SE24-3AC32A-0,5M6,0E11 - 1409681

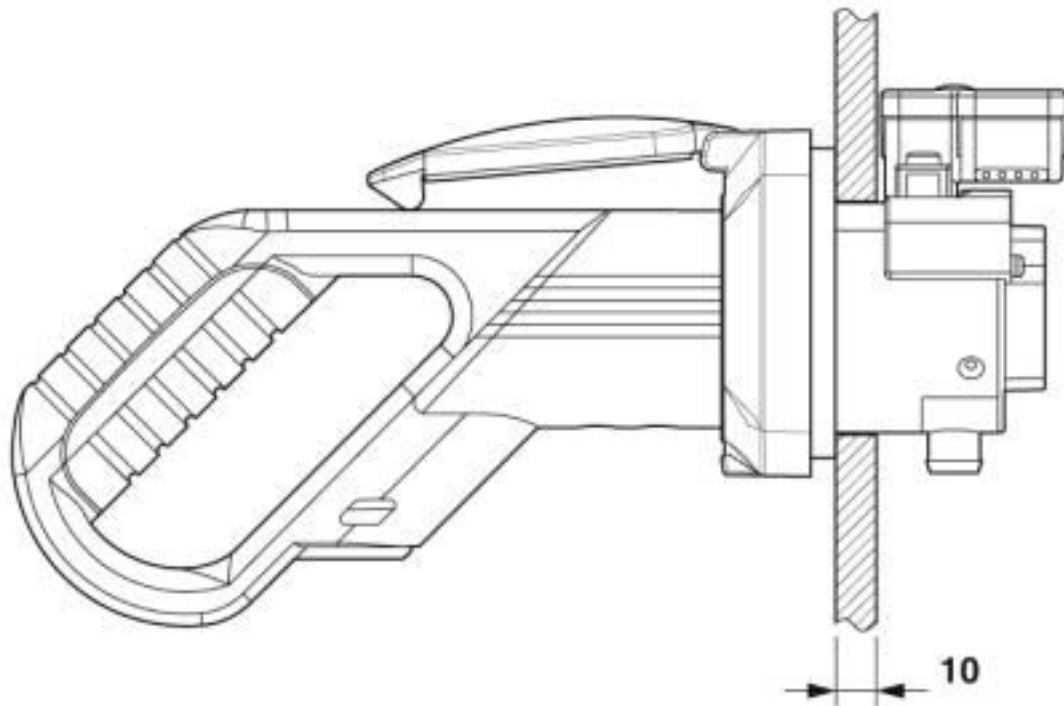
Schematic diagram



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

# Socket Outlet - EV-T2M3SE24-3AC32A-0,5M6,0E11 - 1409681

Schematic diagram



Panel thickness for front mounting (in mm)

## Classifications

eCl@ss

eCl@ss 10.0.1	27144706
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400
eCl@ss 6.0	27143400
eCl@ss 7.0	27449001
eCl@ss 8.0	27449001
eCl@ss 9.0	27144706

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC001321
ETIM 6.0	EC002898
ETIM 7.0	EC002898

# Socket Outlet - EV-T2M3SE24-3AC32A-0,5M6,0E11 - 1409681

## Classifications

### UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522
UNSPSC 18.0	39121522
UNSPSC 19.0	39121522
UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

## Accessories

### Accessories

#### AC charging controller

##### AC charging controller - EM-CP-PP-ETH - 2902802



EV charge control is used to charge electrical vehicles on the 3-phase AC mains power supply according to IEC 61851-1 Mode 3. All necessary control functions are integrated. Additional functions are available for various charging applications.

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##### AC charging controller - EV-CC-AC1-M3-CBC-SER-HS - 1622452



The EV-CC-AC1-M3-CBC-SER-HS charging controller with housing for DIN rail mounting is used for charging electric vehicles at 3-phase AC networks according to IEC 61851-1, Mode 3. All charging functions, comprehensive configuration settings as well as a locking controller are already integrated.

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##### AC charging controller - EV-CC-AC1-M3-CBC-SER-PCB - 1622453



The EV-CC-AC1-M3-CBC-SER-PCB charging controller as PCB is used for charging electric vehicles at 3-phase AC networks according to IEC 61851-1, Mode 3. All charging functions, comprehensive configuration settings as well as a locking controller are already integrated.

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## Accessories

AC charging controller - EV-CC-AC1-M3-CBC-SER-PCB-XC-25 - 1627743



The EV-CC-AC1-M3-CBC-SER-PCB charging controller as PCB is used for charging electric vehicles at 3-phase AC networks according to IEC 61851-1, Mode 3. All charging functions, comprehensive configuration settings as well as a locking controller are already integrated.

AC charging controller - EV-CC-AC1-M3-CBC-SER-PCB-MSTB - 1627353



The EV-CC-AC1-M3-CBC-SER-PCB-MSTB charging controller as a PCB for charging electric vehicles according to IEC 61851-1, Mode 3, Case B (Socket Outlet) or C (Vehicle Connector). Connection via PCB connector on header.

## Locking actuator

Locking - EV-T2M3S-E-LOCK12V - 1624129



Locking, For attaching to infrastructure charging sockets, Type 2, GB/T, IEC 61851-1, length: 0.5 m, Locking actuator: 12 V, 4-position, Can be positioned flexibly, Generation 1

Locking - EV-T2M3S-E-LOCK24V - 1622317



Locking, For attaching to infrastructure charging sockets, Type 2, GB/T, IEC 61851-1, length: 0.5 m, Locking actuator: 24 V, 4-position, Can be positioned flexibly, Generation 1

## Panel mounting frame for Socket Outlet

Panel mounting frames - EV-T2SF - 1405218



Panel mounting frames, For attaching to infrastructure charging sockets, Type 2, IEC 62196-2, Front mounting, M5 thread, Generation 1, Without logo

## Protective cover for Socket Outlet



## Socket Outlet - EV-T2M3SE24-3AC32A-0,5M6,0E11 - 1409681

### Accessories

#### Protective covers - EV-T2SC - 1405217



Protective covers, self-closing, rear protective cover screw connection, For attaching to infrastructure charging sockets, Type 2, IEC 62196-2, Front mounting, M5 thread, Generation 1, Embossed PHOENIX CONTACT logo

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#### Protective covers - EV-GBSCO - 1623415



Protective covers, self-opening, rear protective cover screw connection, For attaching to infrastructure charging sockets, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, Generation 1, Adhered "PHOENIX CONTACT" sticker

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#### Protective covers - EV-GBSC - 1623416



Protective covers, self-closing, rear protective cover screw connection, For attaching to infrastructure charging sockets, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, Generation 1, Adhered "PHOENIX CONTACT" sticker

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



Protective covers, self-closing, rear protective cover screw connection, For attaching to infrastructure charging sockets, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, Generation 1, Adhered "PHOENIX CONTACT" sticker

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### Seal

#### Seal - EV-T2M3S-DRAINAGE-GASKET - 1621668

Seal, For the discharge nozzle below the infrastructure charging socket if there is no drainage tube present, Type 2, IEC 62196-2, Generation 1

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

Seal, For the mounting surface of the locking actuator above the infrastructure charging socket when there is no locking actuator present, Type 2, IEC 62196-2, Generation 1

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