

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

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Socket Outlet, rear protective cover screw connection, 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: 0.7 m, Locking actuator: 12 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 |  4 046356 738477 |
| GTIN | 4046356738477 |

Technical data

Product definition

| | |
|-------------------------------|---|
| Type | rear protective cover screw connection |
| 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 |
| Note on the connection method | Crimp connection, cannot be disconnected |

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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 |
| 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 protective cover | Only rear mounting possible |
| Max. wall thickness | max. 50 mm (Rear panel mounting, normative maximum specification for infrastructure plug) |

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Technical data

Mounting

| | |
|------------------------|---|
| | 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 |
|--------------|--|

Locking actuator

| | |
|--|--|
| Number of positions of the connectors | 4 |
| Operating voltage | 12 V (Typical power supply at the motor) |
| Possible power supply range at the motor | 9 V ... 16 V |
| Maximum voltage for locking detection | 30 V |
| Typical motor current for locking | 0.2 A |
| Reverse current of the motor | max. 1 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 ² |
| Lock recognition | available |
| Mechanical emergency release | available |

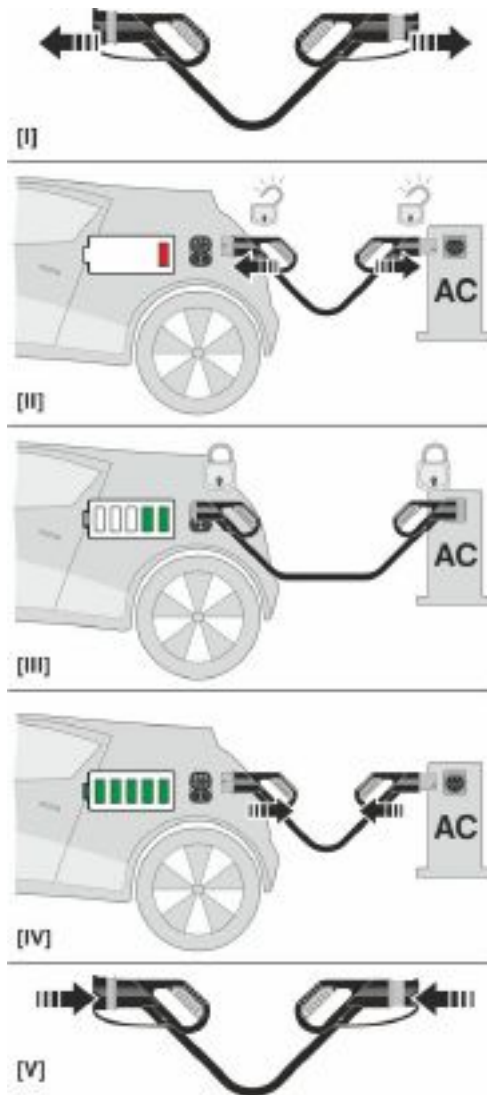
Environmental Product Compliance

| | |
|------------|---|
| 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

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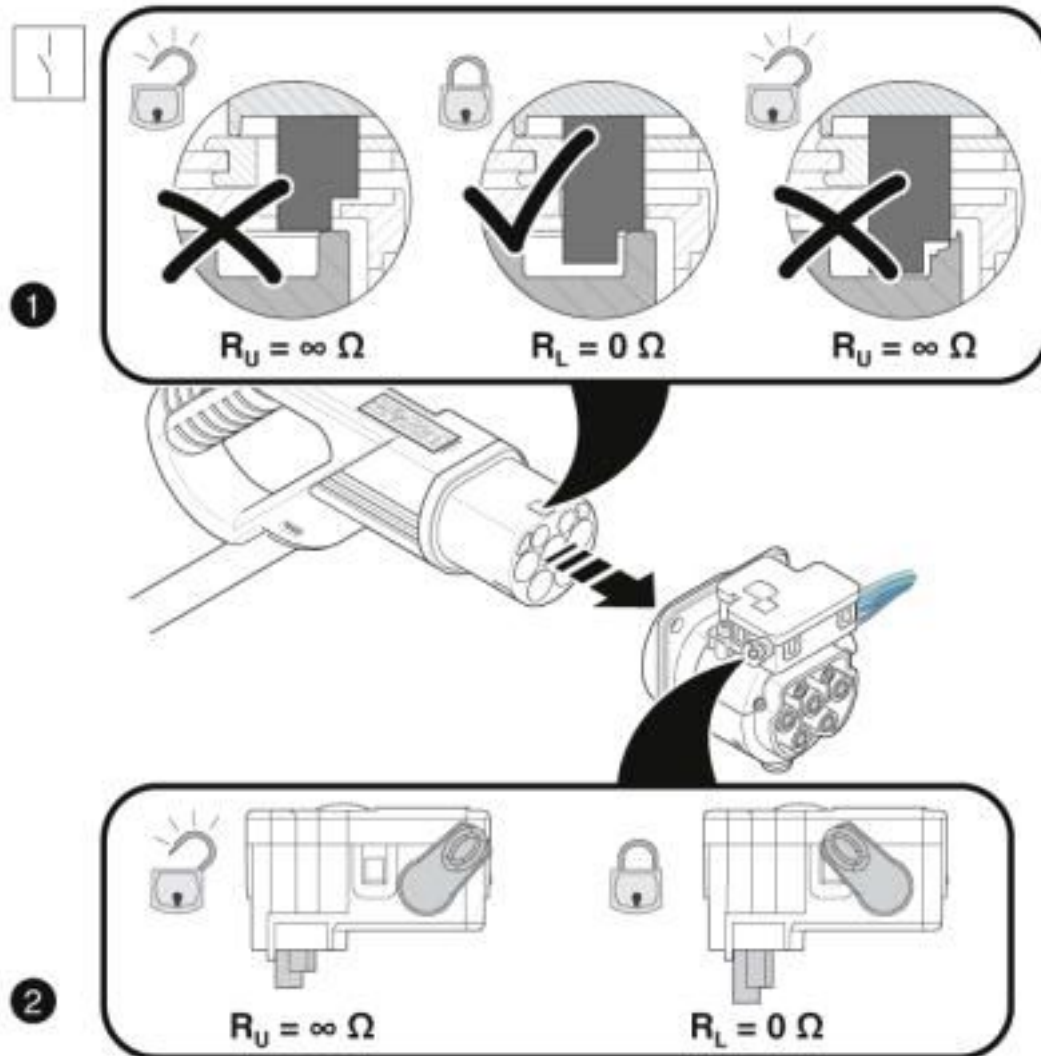
Schematic diagram



Operating instructions

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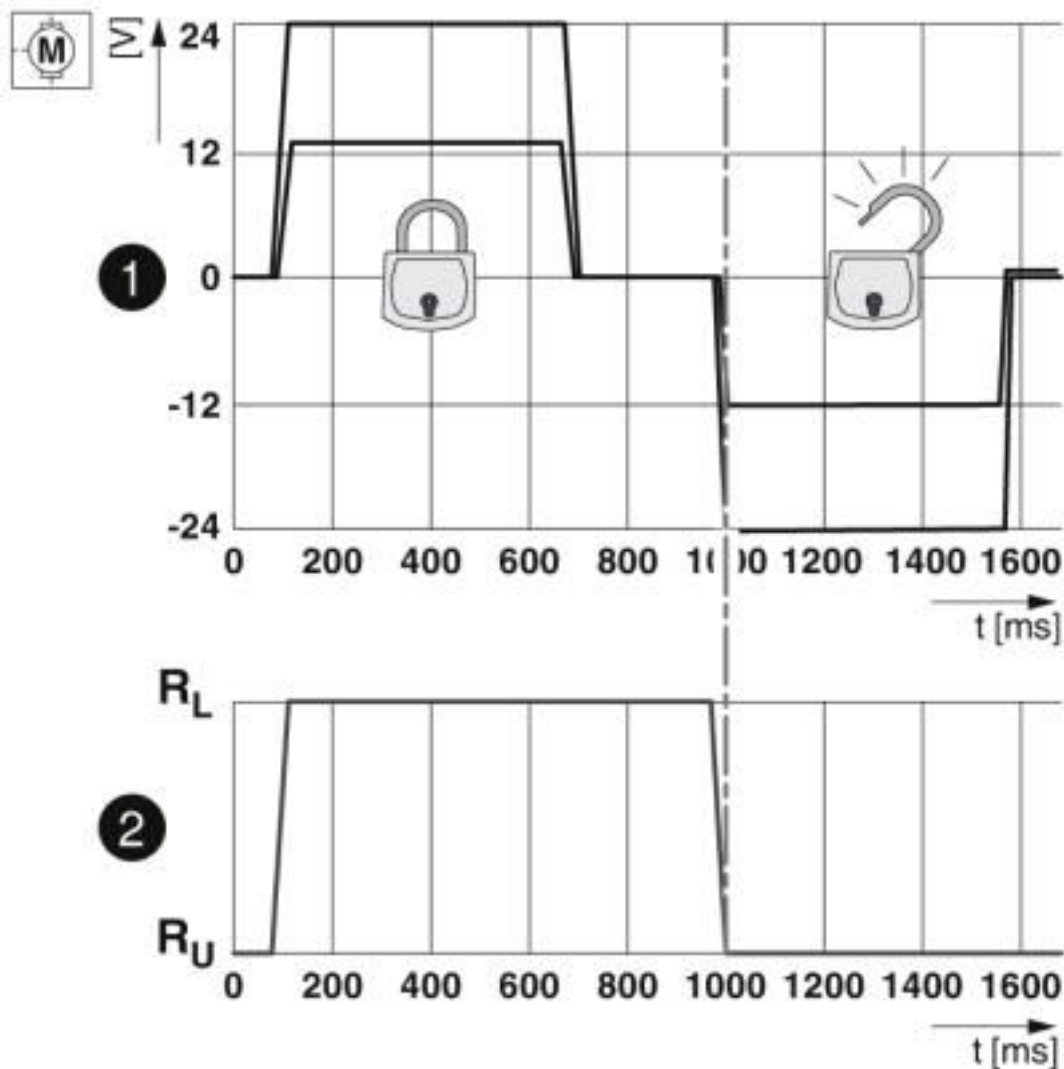
Schematic diagram



Detection of the Infrastructure Plug

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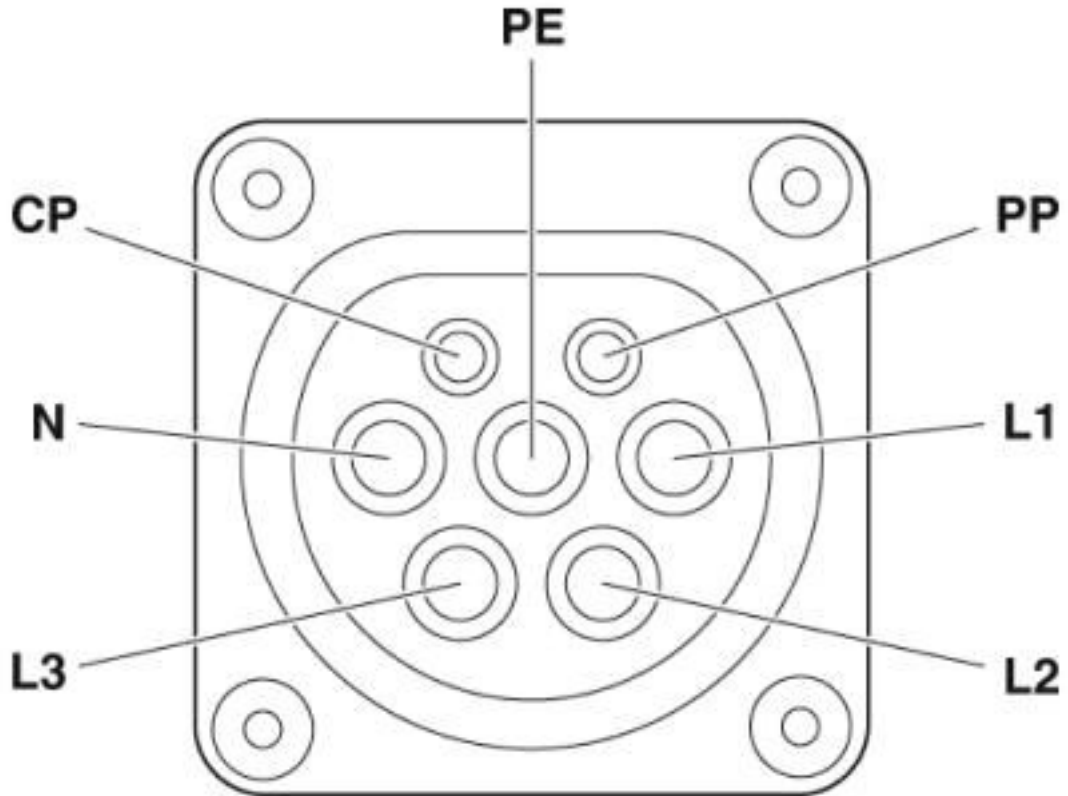
Diagram



Locking states of the locking actuator

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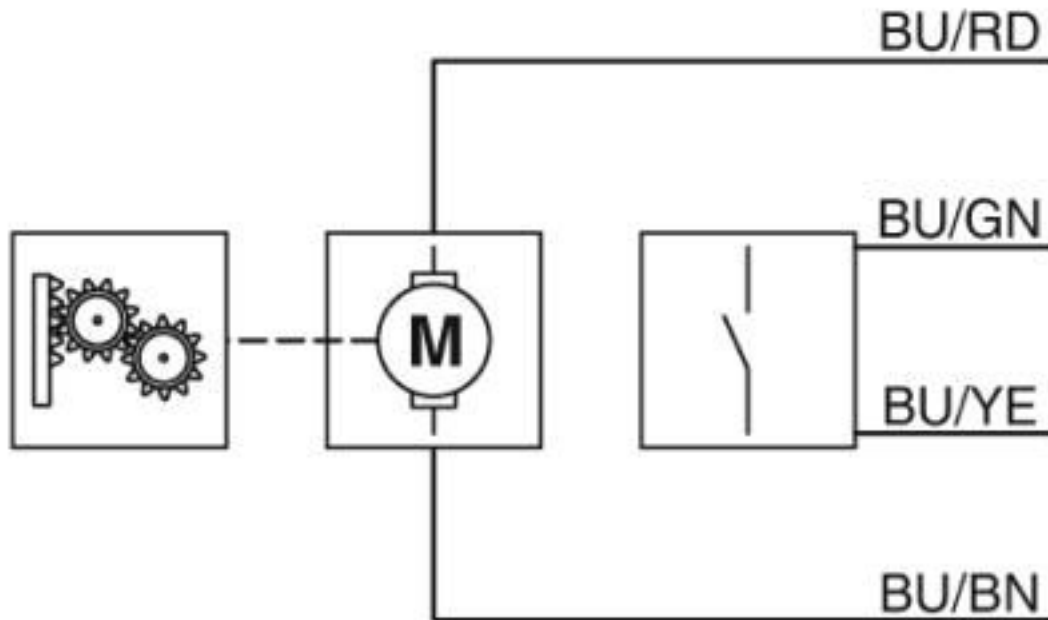
Connection diagram



Pin assignment of Infrastructure Socket Outlet

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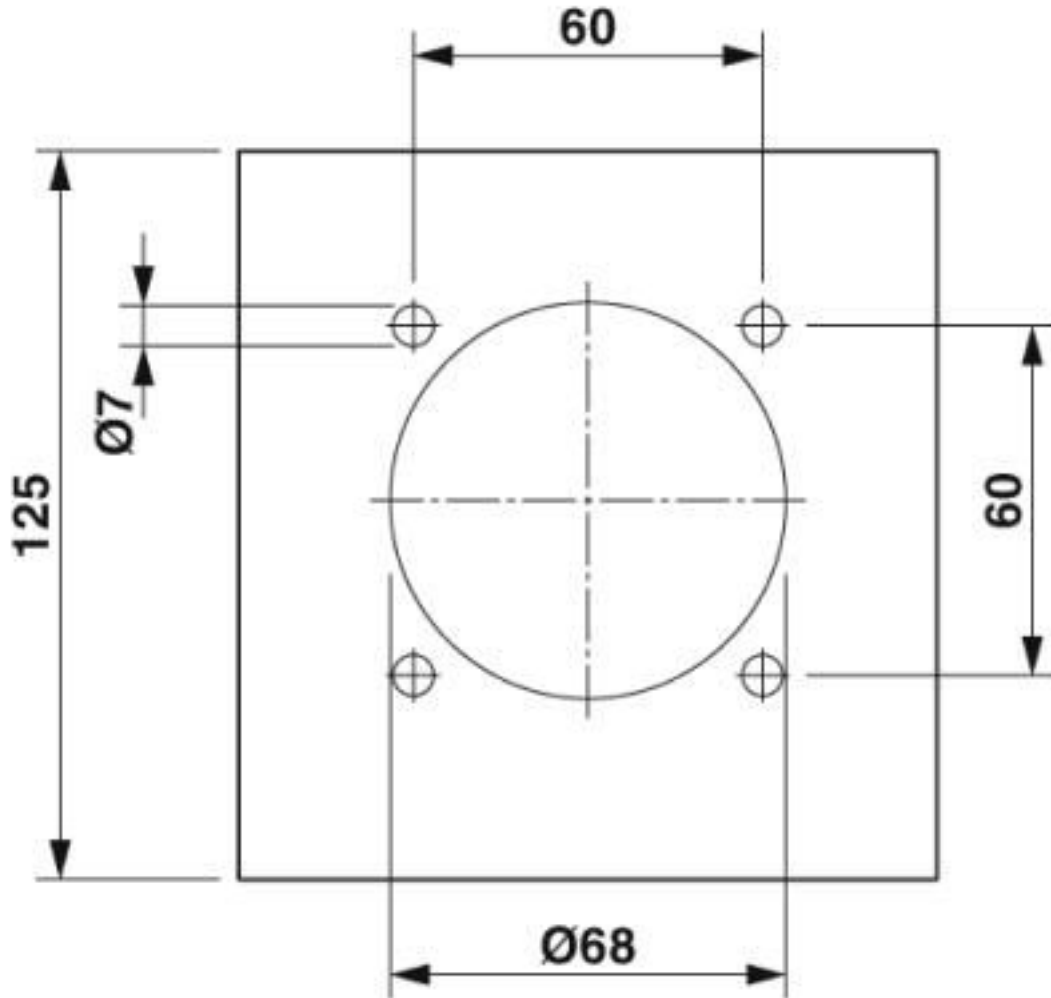
Block diagram



Block diagram of the locking actuator

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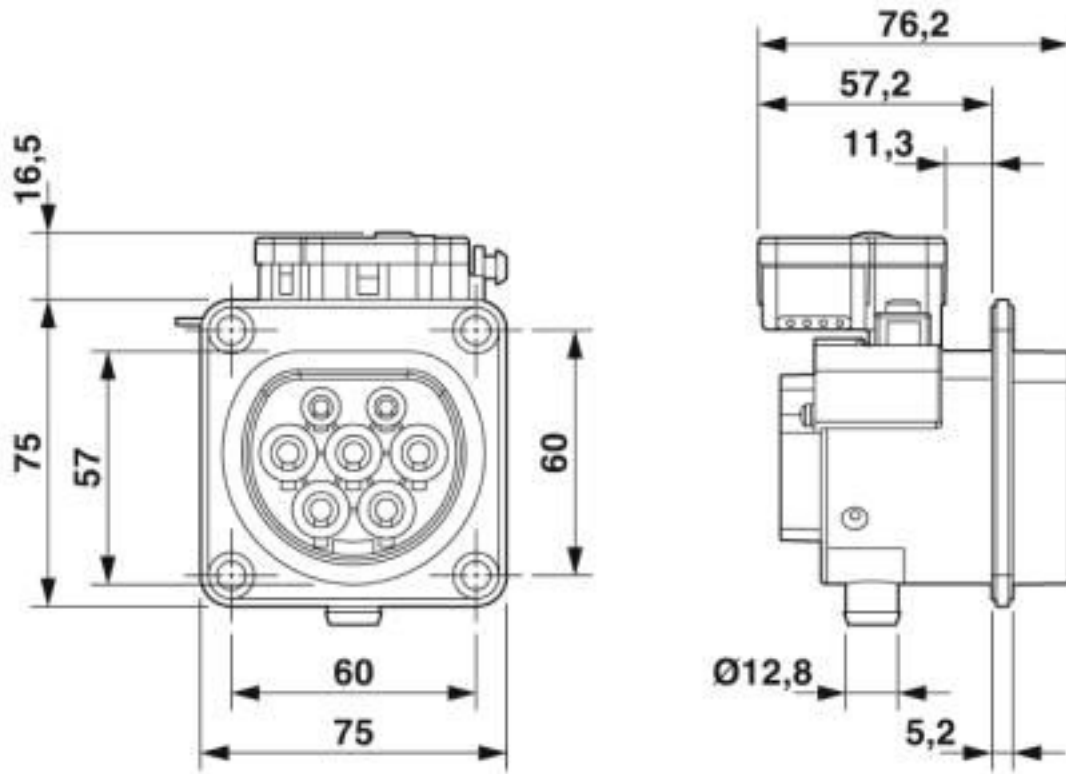
Dimensional drawing



Hole image

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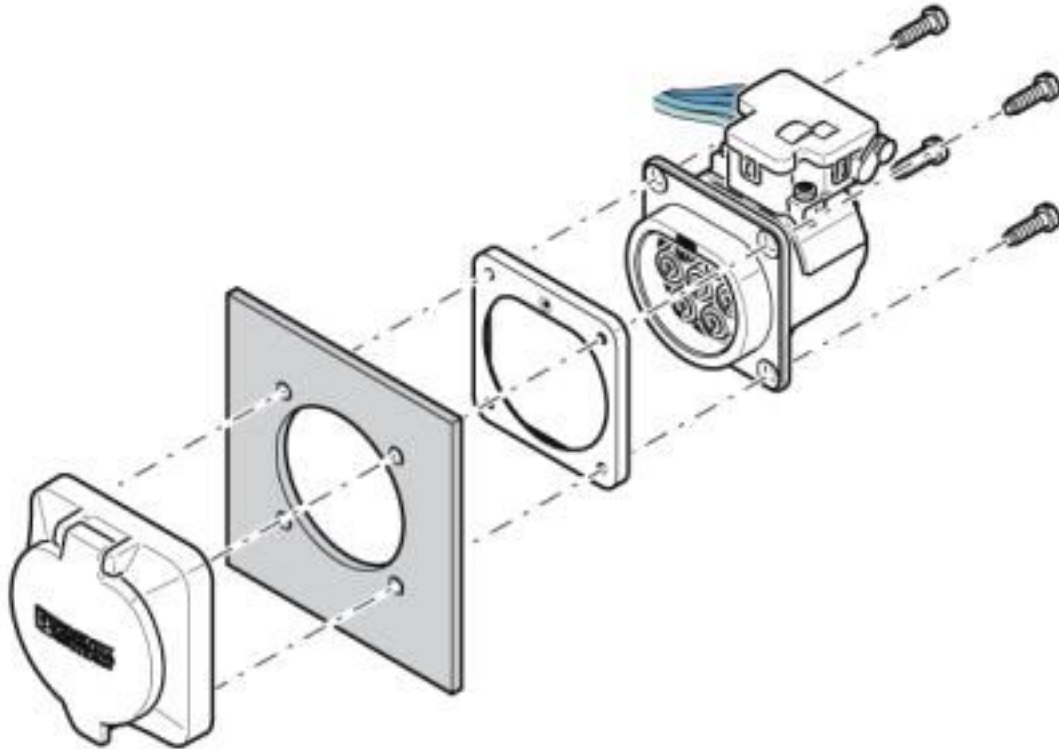
Dimensional drawing



Dimensional drawing

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Schematic diagram

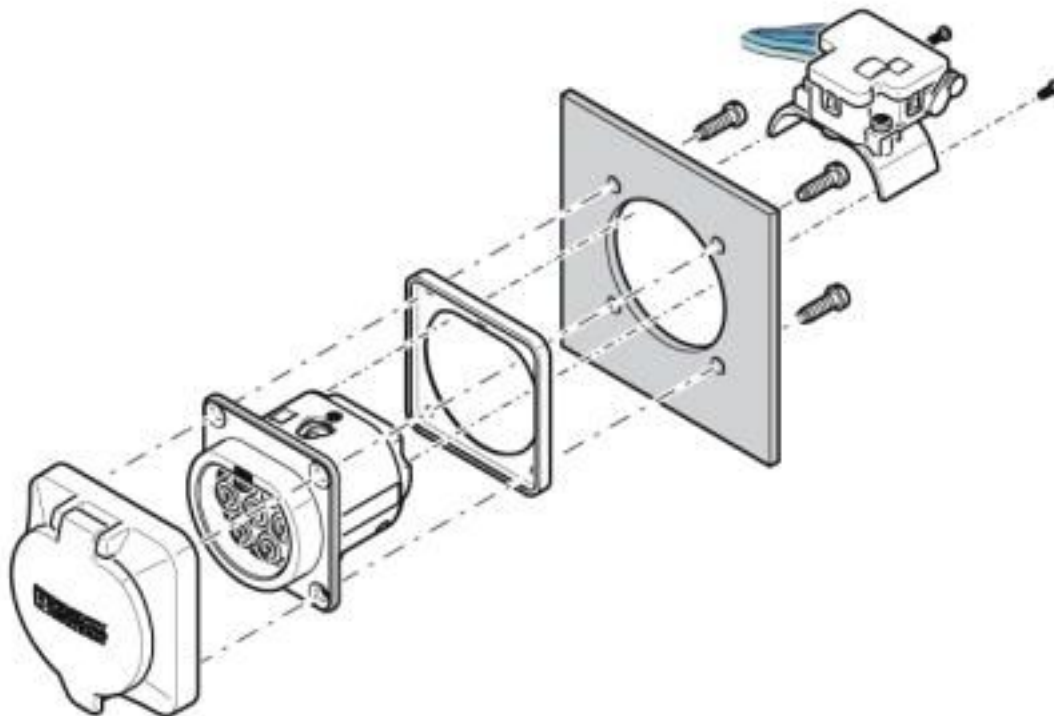


Rear mounting with rear protective cover screw connection

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

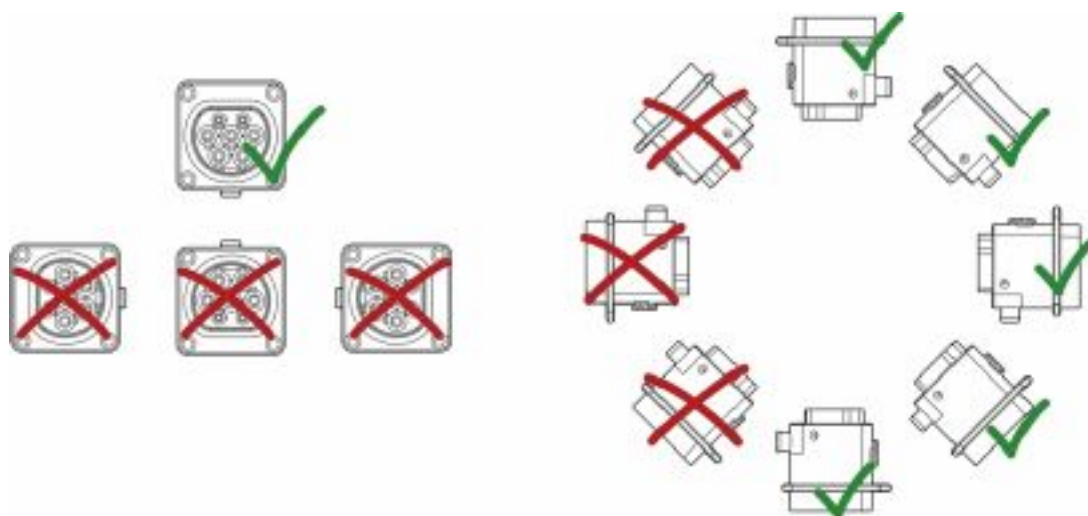


Front mounting with rear protective cover screw connection

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.

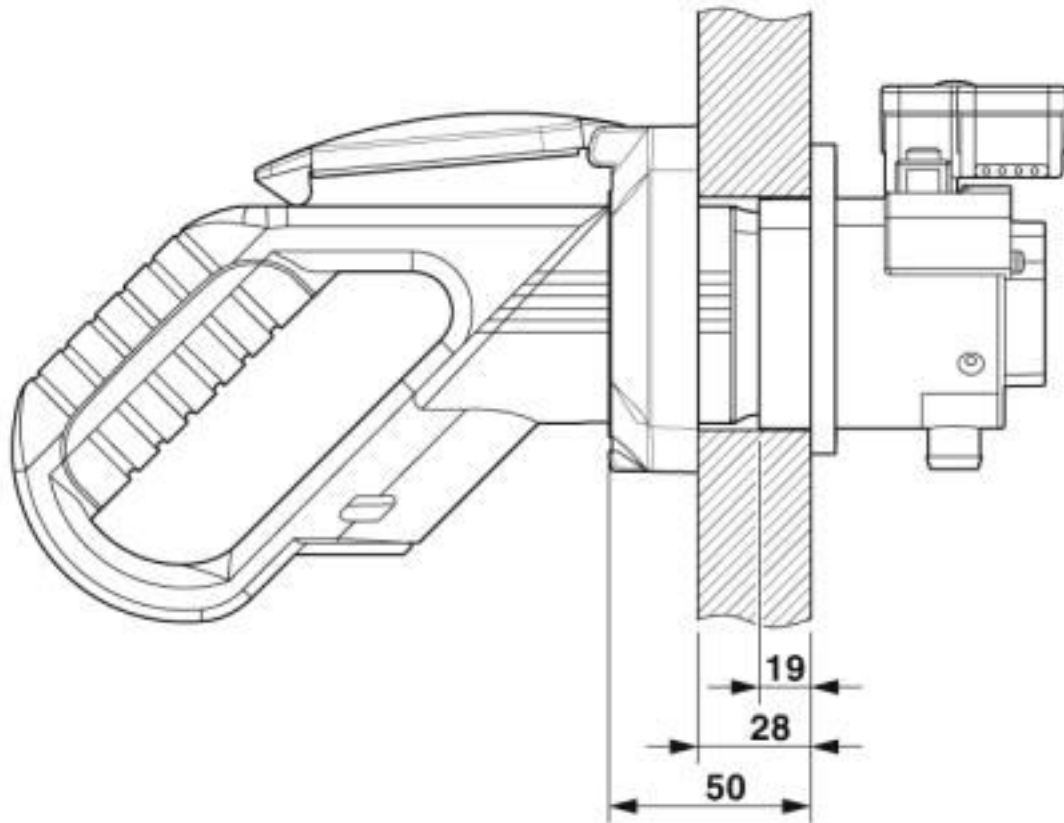
Schematic diagram



Installation positions

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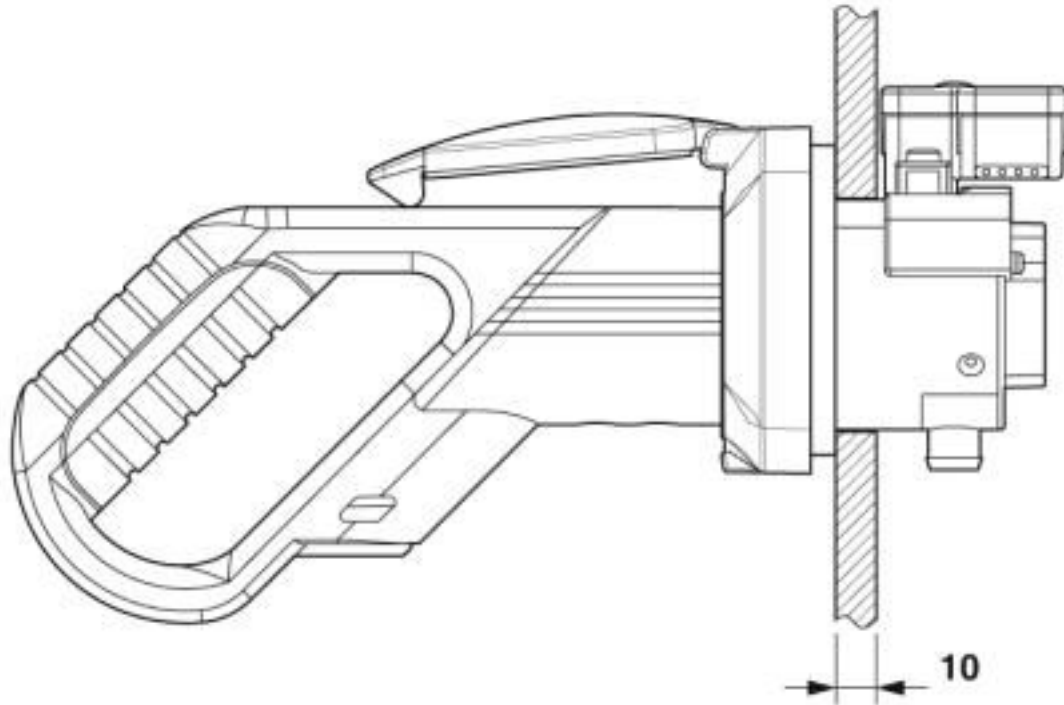
Schematic diagram



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

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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 |

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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.

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.

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

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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

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

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

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

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

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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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

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