

Socket Outlet - EV-T2M3SE24-3AC32A-0,7M6,0E14 - 1627987

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Socket Outlet, front protective cover screw connection, Optimized insertion and withdrawal forces, 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: 24 V, 4-position, Rear panel mounting, Generation 1 Easy Mount, "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
- ✓ Quick and easy front mounting of an optional protective cover
- ✓ Manual emergency release of the locking actuator
- ✓ Integrated interlock during charging



Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 1 pc |
| GTIN | |
| GTIN | 4055626370019 |

Technical data

Product definition

| | |
|-----------------------|---|
| Type | front protective cover screw connection |
| | Optimized insertion and withdrawal forces |
| Application | For charging electric vehicles (EV) with alternating current (AC) |
| | Compatible with infrastructure charging plugs |
| Affixed logo | "PHOENIX CONTACT" logo |
| Design | Generation 1 Easy Mount |
| Standards/regulations | IEC 62196-2 |
| Charging standard | Type 2 |

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Technical data

Product definition

| | |
|-------------------------------|--|
| Charging mode | Mode 3, Case B |
| Note on the connection method | Crimp connection, cannot be disconnected |

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 |

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Technical data

Mounting

| | |
|------------------------|--|
| 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)) |
| Mounting hole diameter | 7.00 mm (ø) |

Design

| | |
|---------------------|-------------------------|
| Design line | Generation 1 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 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 ² |
| Lock recognition | available |
| Mechanical emergency release | available |

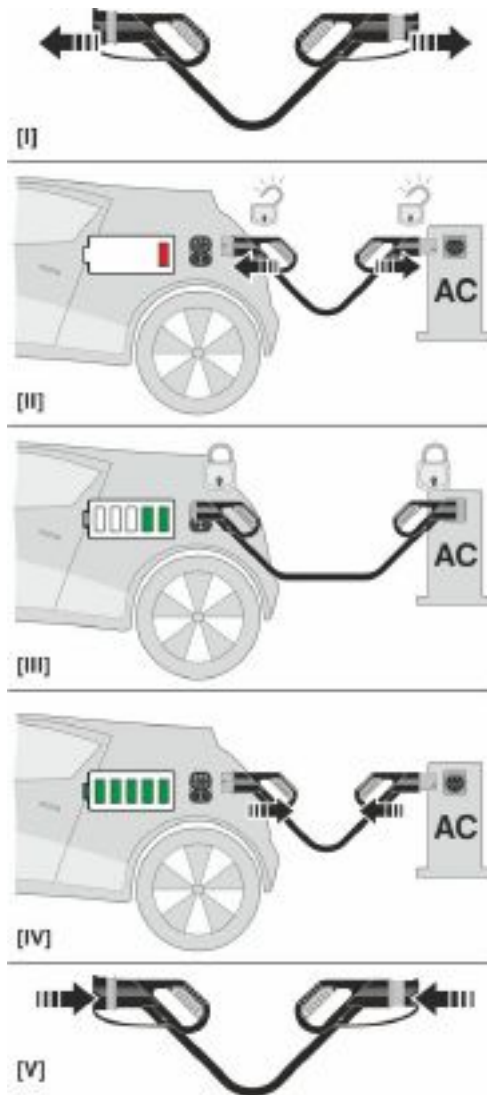
Environmental Product Compliance

| | |
|------------|---|
| 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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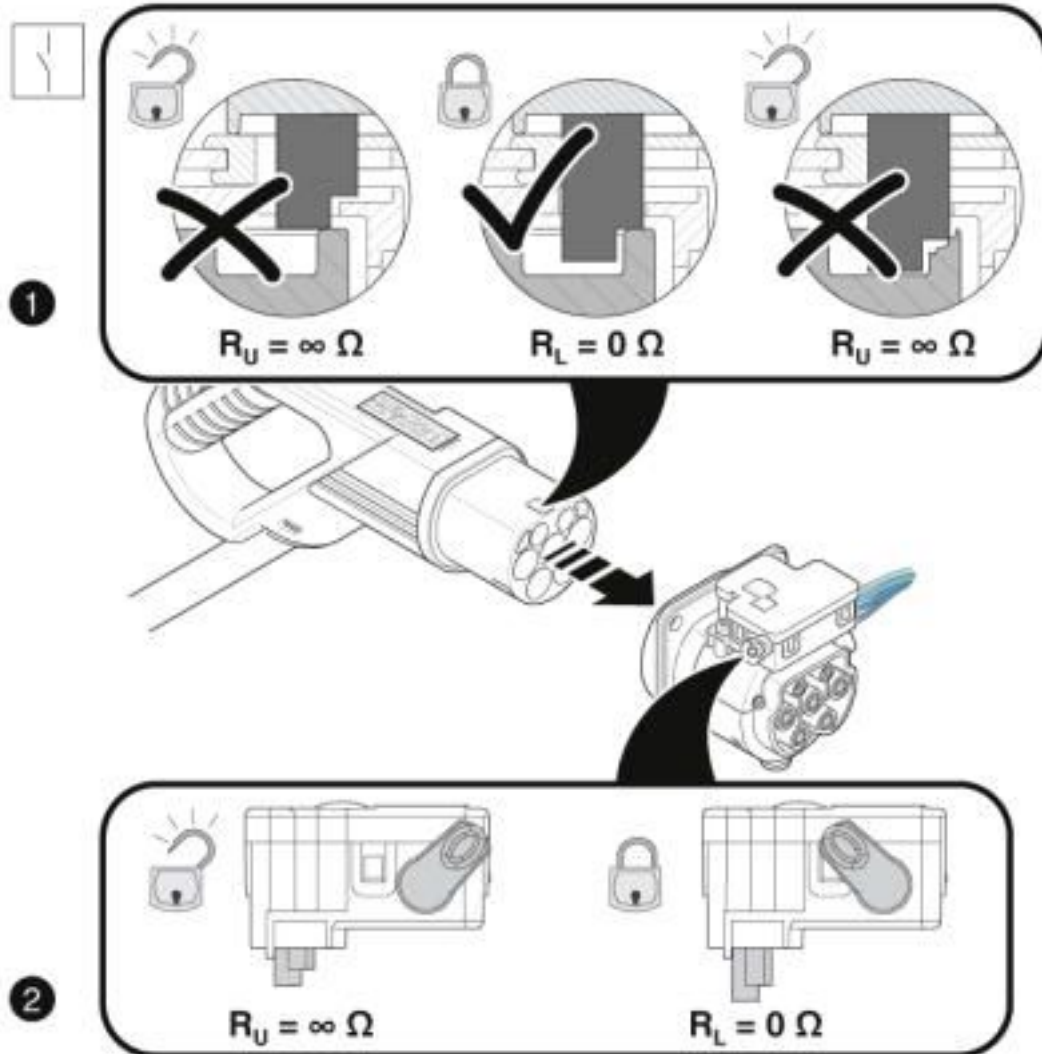
Schematic diagram



Operating instructions

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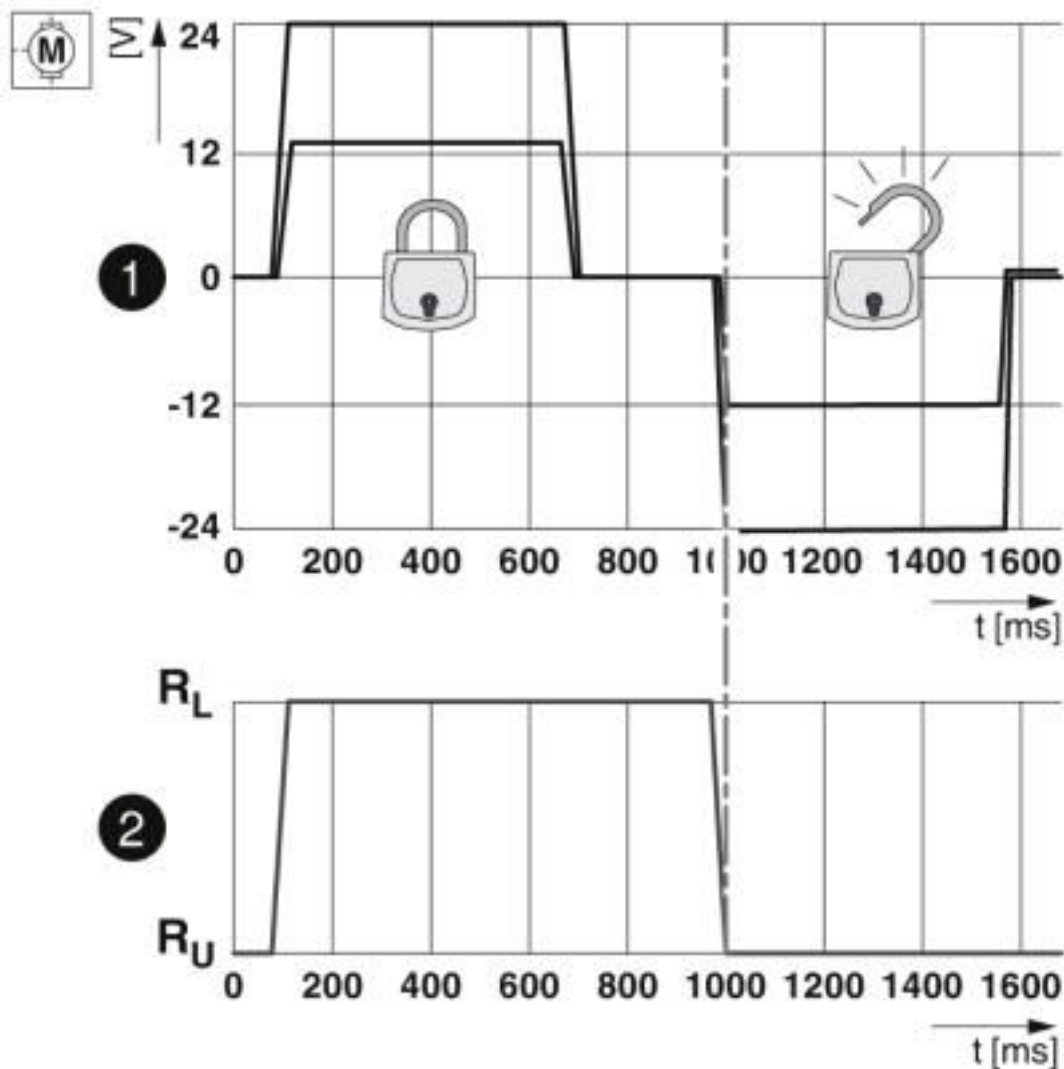
Schematic diagram



Detection of the Infrastructure Plug

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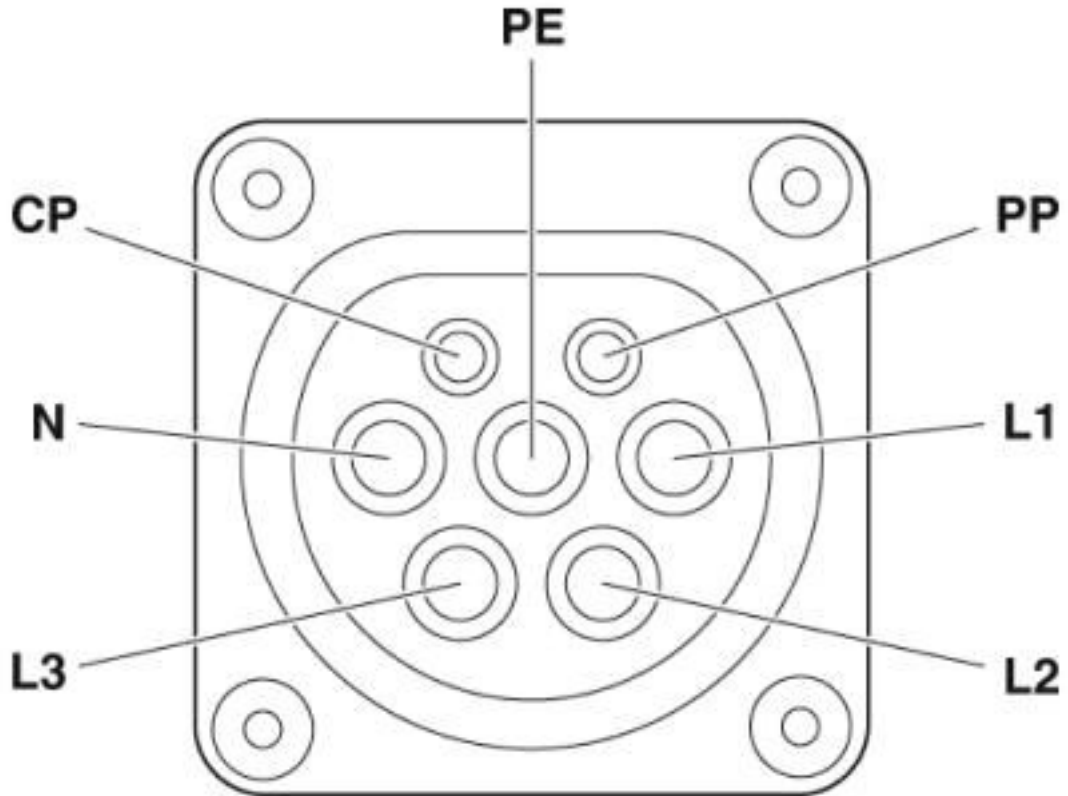
Diagram



Locking states of the locking actuator

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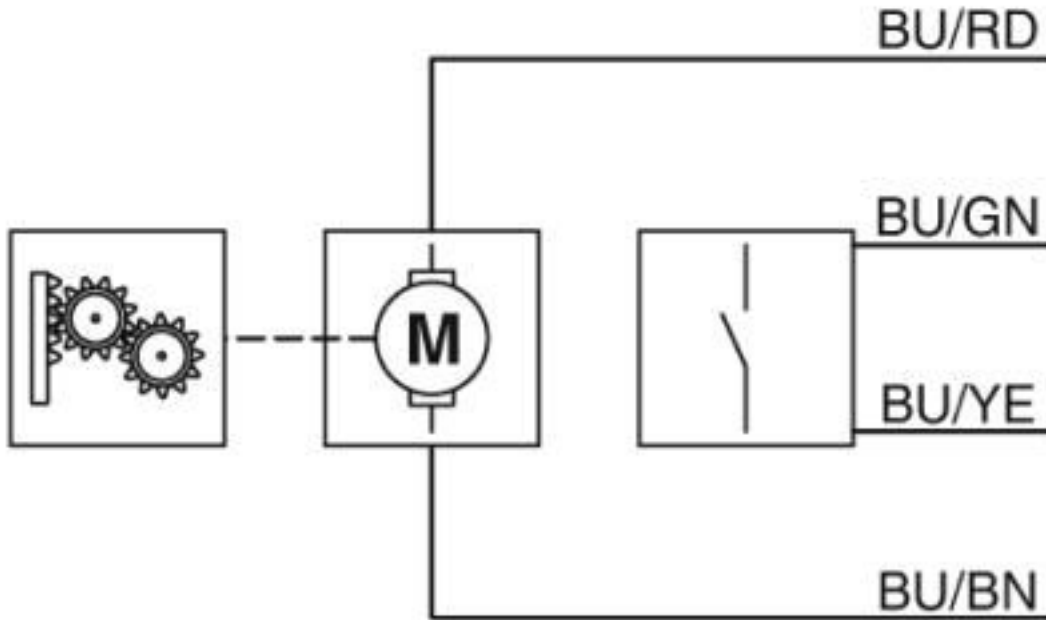
Connection diagram



Pin assignment of Infrastructure Socket Outlet

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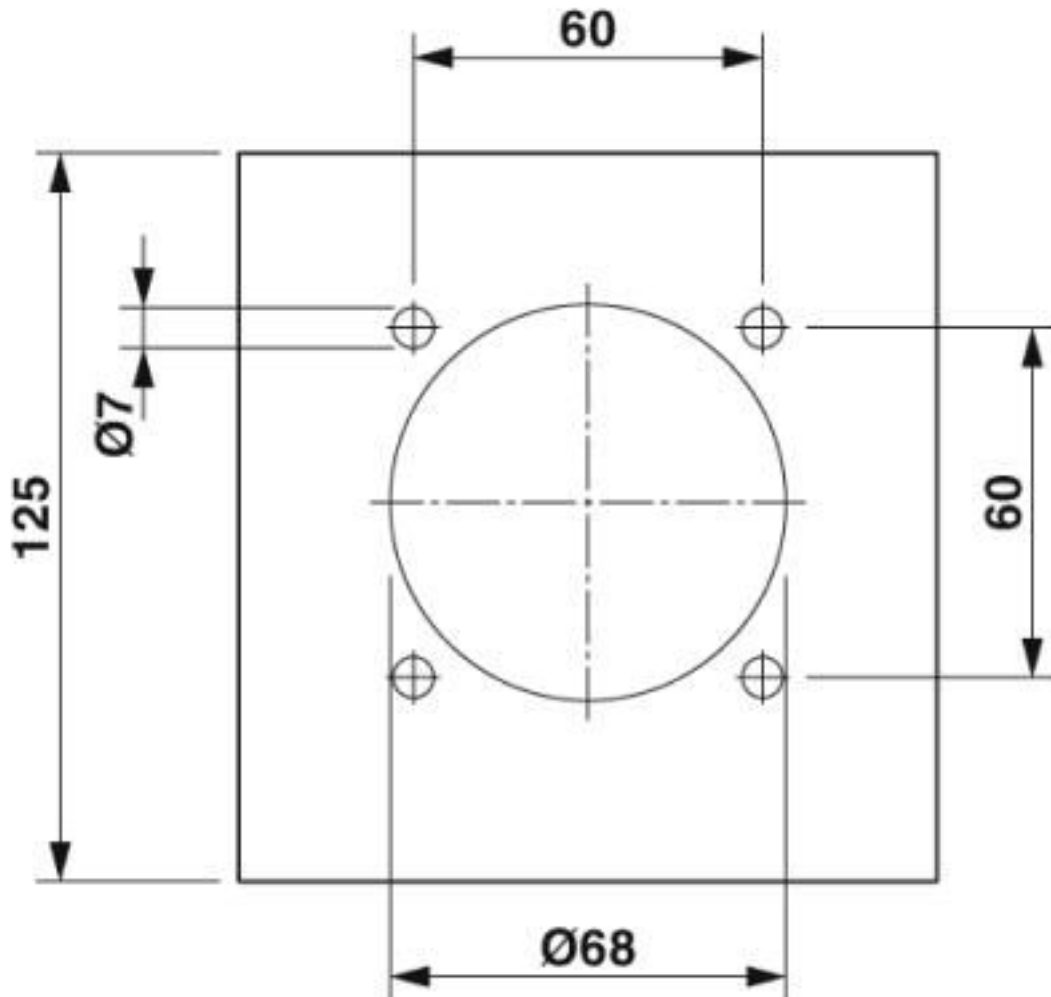
Block diagram



Block diagram of the locking actuator

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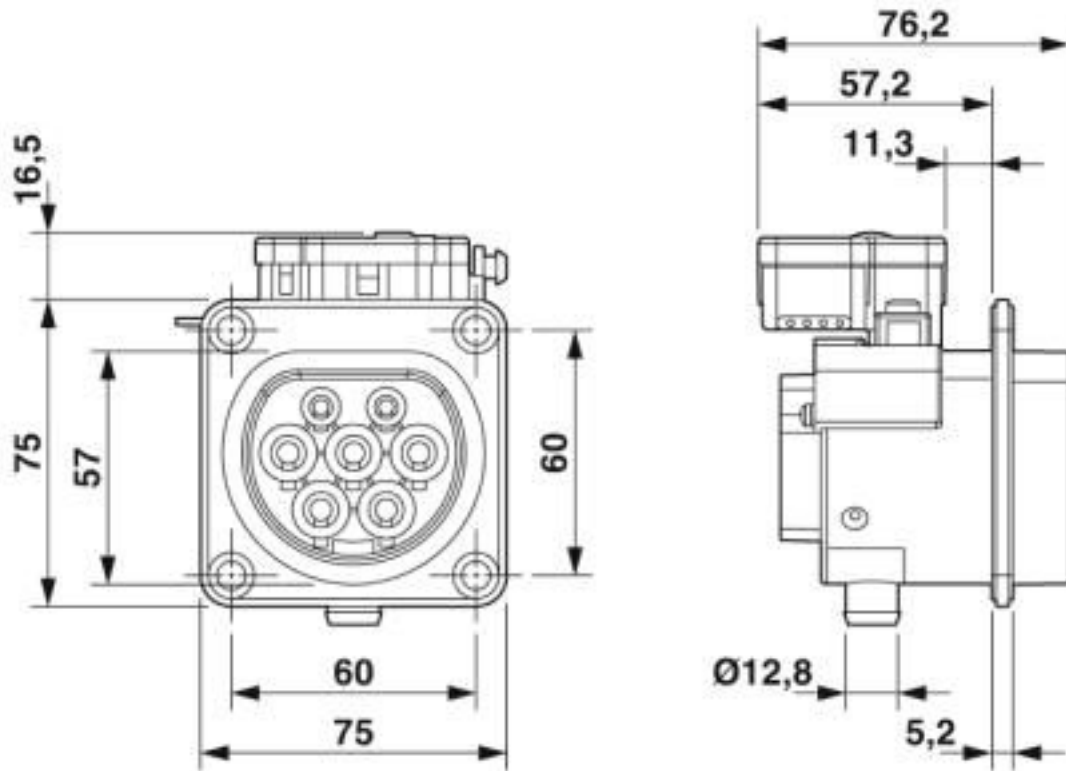
Dimensional drawing



Hole image

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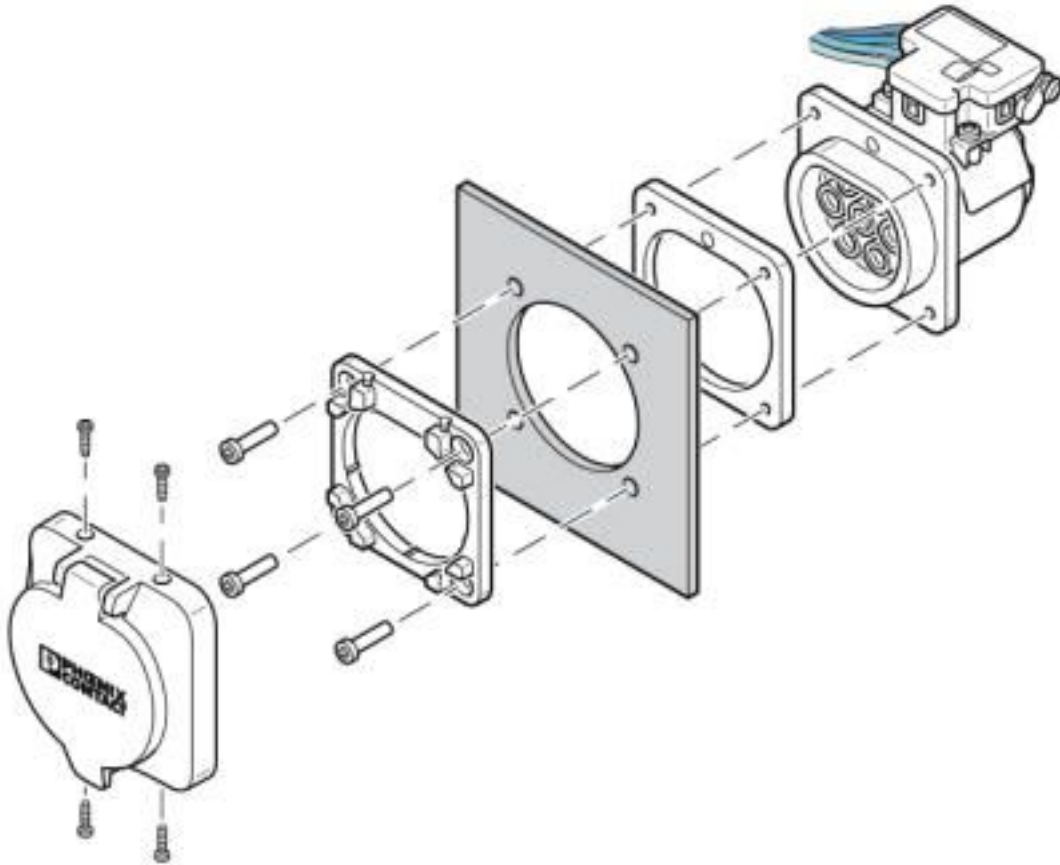
Dimensional drawing



Dimensional drawing

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Schematic diagram

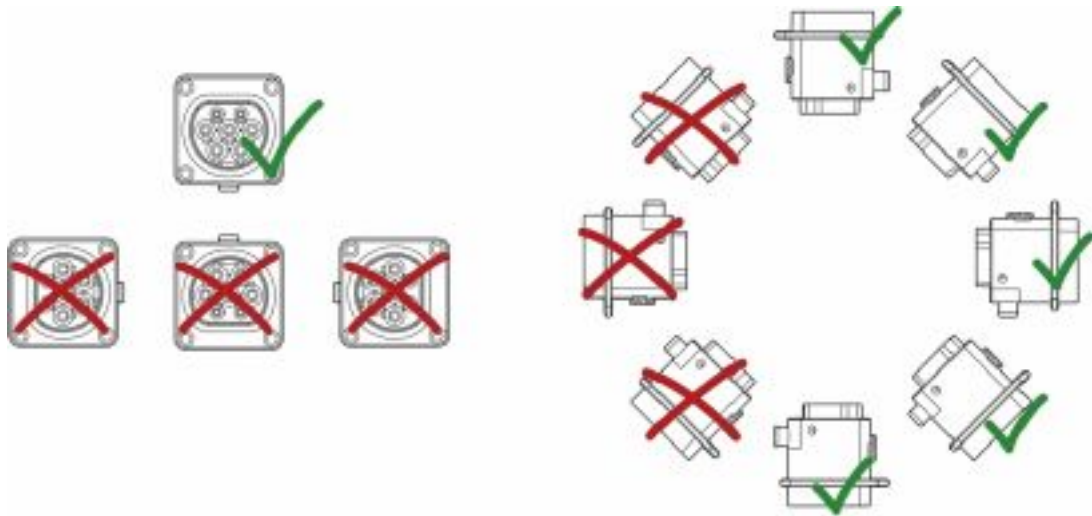


Rear mounting with front protective cover screw connection

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.

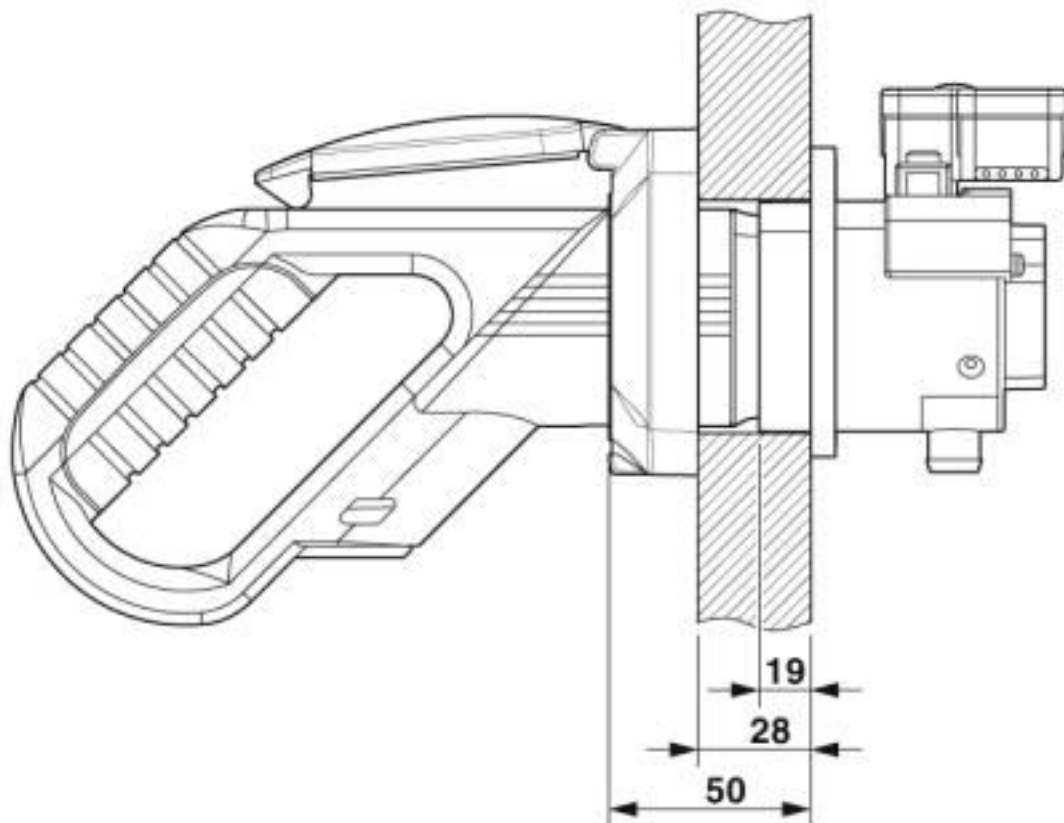
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Schematic diagram



Installation positions

Schematic diagram



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

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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 |

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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Accessories

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.

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.

Fixing frame

Fixing frame - EV-T2SF-EM - 1627637



Fixing frame, front protective cover screw connection, For attaching to infrastructure charging sockets, Type 2, IEC 62196-2, Front mounting, Generation 1 Easy Mount, Without logo

Locking actuator

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Accessories

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

Protective cover for Socket Outlet

Protective covers - EV-T2SC-EM - 1627635



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

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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