

1002946

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CHARX connect, Type 2, Infrastructure charging socket, 32 A , 480 V AC, length: 1.5 m, locking actuator: 12 V, 4-pos., Rear panel mounting, optimized insertion and withdrawal forces, for charging electric vehicles (EV) with alternating current (AC), PHOENIX CONTACT logo, IEC 62196-2

### Product description

Infrastructure charging socket 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

- · Complete product range
- · Uniform, space-saving installation space
- · Available with your logo on request for consistent branding of your charging station
- · Integrated interlock during charging
- · Manual emergency release of the locking actuator
- · Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001

#### Commercial data

| Item number                          | 1002946       |
|--------------------------------------|---------------|
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | XWBADC        |
| GTIN                                 | 4055626467825 |
| Weight per piece (including packing) | 928 g         |
| Weight per piece (excluding packing) | 893 g         |
| Country of origin                    | DE            |



1002946

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### Technical data

### Product properties

| Product type        | Infrastructure charging socket                                    |
|---------------------|---|
| Product family      | CHARX connect   |
| Application         | for charging electric vehicles (EV) with alternating current (AC) |
|                     | compatible with infrastructure charging plugs                     |
| Design              | optimized insertion and withdrawal forces                         |
| Charging standard   | Type 2  |
| Charging mode       | Mode 3, Case B  |
| Affixed logo        | PHOENIX CONTACT logo  |
| Customer variations | On request  |

### Electrical properties

| Type of signal transmission   | Pulse width modulation                   |
|-------------------------------|--|
| Note on the connection method | Crimp connection, cannot be disconnected |
|                               |  |

#### Charging power and current (AC charging (3-phase))

| Type of charging current | AC 3-phase            |
|--------------------------|-----------------------|
| Charging current         | 32 A AC (3-phase)     |
| Charging power           | 26.6 kW (3-phase)     |
| Charging power rating    | 22 kW (32 A, 3-phase) |
| Rated voltage            | 480 V                 |

#### Pin assignment (Leistungskontakte)

| Number        | 5 (L1, L2, L3, N, PE) |
|---------------|-----------------------|
| Rated voltage | 480 V AC              |
| Rated current | 32 A                  |

#### Pin assignment (Signalkontakte)

| Number        | 2 (CP, PP) |
|---------------|------------|
| Rated voltage | 30 V AC    |
| Rated current | 2 A        |

| Locking actuator                         |                     |
|--|---------------------|
| Locking actuator                         | 12 V, 4-pos.        |
|  | Top center position |
| 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                 |



1002946

https://www.phoenixcontact.com/us/products/1002946

| Service life insertion cycles   | > 10000 load cycles     |
|---------------------------------|-------------------------|
| Lock recognition                | available               |
| Mechanical emergency release    | available               |
| Ambient temperature (operation) | -30 °C 50 °C            |
| Cable length                    | 0.5 m                   |
| Cable structure                 | 4 x 0.5 mm <sup>2</sup> |

#### **Dimensions**

| Dimensional drawing | 60<br>60<br>80<br>80<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90                         |
|---------------------|--|
| Max. wall thickness | max. 50.00 mm (Rear panel mounting, normative maximum specification for infrastructure plug)                               |
|                     | max. 28.00 mm (Rear mounting, normative maximum specification for infrastructure plug when using protective cover 1405217) |
|                     | max. 10.00 mm (Front mounting, when using the locking mechanism)   |
| Bore dimensions     | 60 mm x 60 mm  |

#### Cable/line

| Cable length    | 1.5 m (AC cables)               |
|-----------------|---------------------------------|
|                 | 0.5 m (Locking actuator cables) |
| Cable structure | 5x 6.0 mm² + 2x 0.5 mm²         |

#### Mechanical properties

#### Mechanical data

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

#### Environmental and real-life conditions

#### Ambient conditions

| Ambient temperature (operation)         | -30 °C 50 °C             |
|---|--------------------------|
| Ambient temperature (storage/transport) | -40 °C 80 °C             |
| Altitude                                | 5000 m (above sea level) |

### Standards and regulations

#### Standards

| Standards/regulations | IEC 62196-2 |
|-----------------------|-------------|
|-----------------------|-------------|



1002946

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### Mounting

| Mounting type Infrastructure charging socket | Rear panel mounting (0 to 90 degree frontal inclination possible)                               |
|--|---|
|  | Front mounting (only possible when the locking actuator is removed (see EV-T2M3SEE00 versions)) |
| Mounting type Protective cover               | rear (available separately)   |
| Mounting hole diameter                       | 7.00 mm (ø)   |

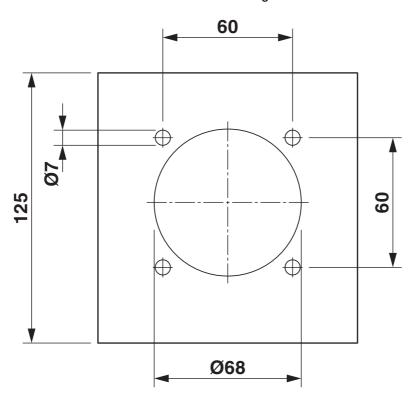


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### Drawings

### Dimensional drawing



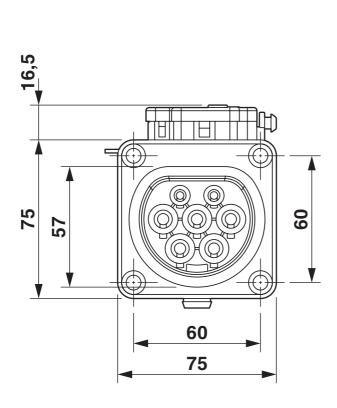
Hole image

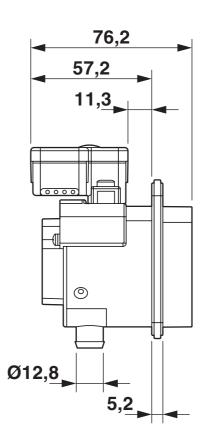


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### Dimensional drawing





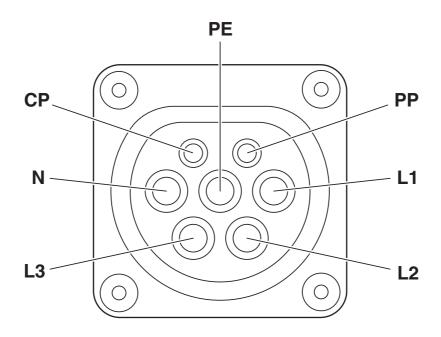
Dimensional drawing



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### Connection diagram



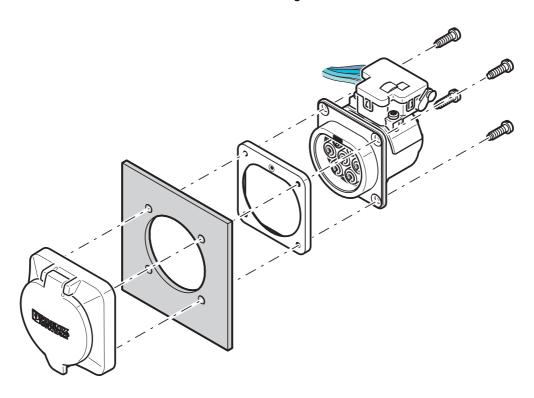
Pin assignment of infrastructure charging socket



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#### Schematic diagram



Rear mounting with rear protective cover screw connection

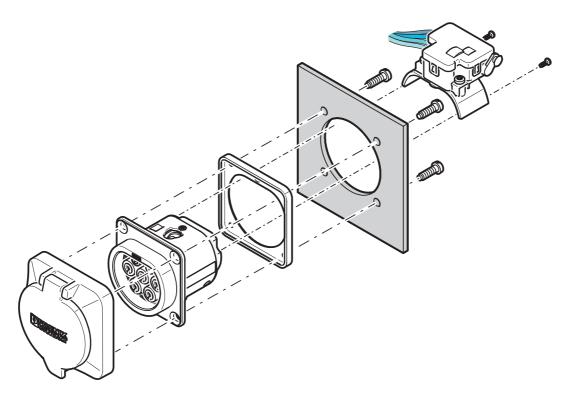
The screw connection for a protective cover from the accessories range (EV-T2SC) only supports rear mounting. The panel thickness must not exceed 5 mm. The sealing frame that is slid on from the rear must contact the housing panel flush with the flat side and must completely surround the infrastructure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



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#### Schematic diagram



Front mounting with rear protective cover screw connection

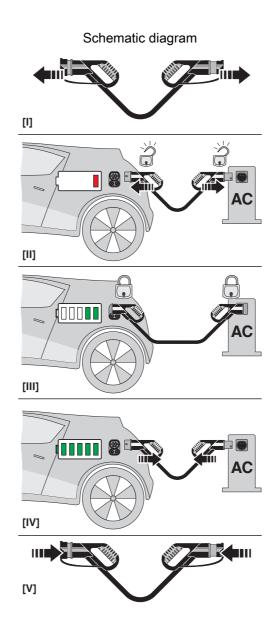
Front mounting is only possible when the locking actuator is removed. We recommend using an infrastructure socket outlet without pre-assembled locking actuator (EV-T2M3SE-...E0..., e.g., 1621729).

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.



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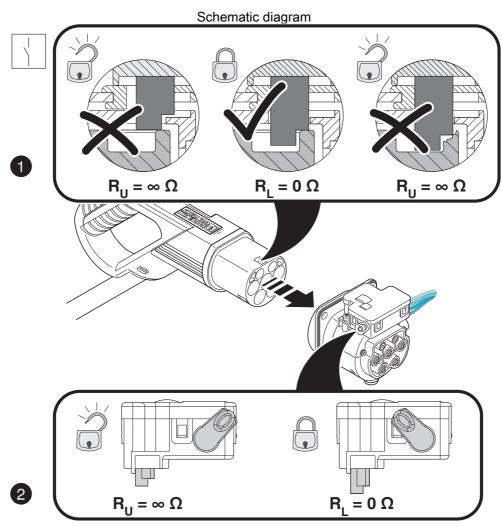


Operating instructions

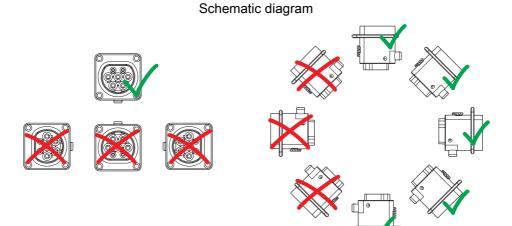


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Detection of the Infrastructure Plug



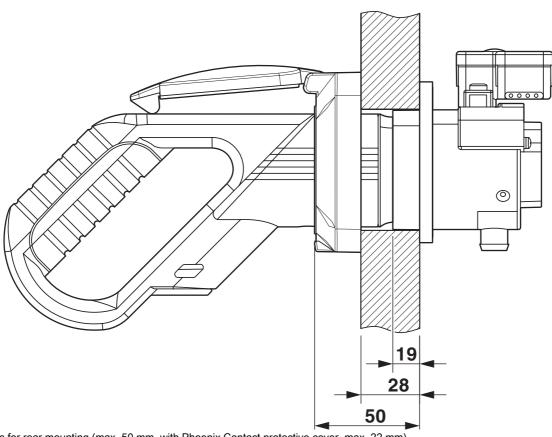
Installation positions



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### Schematic diagram



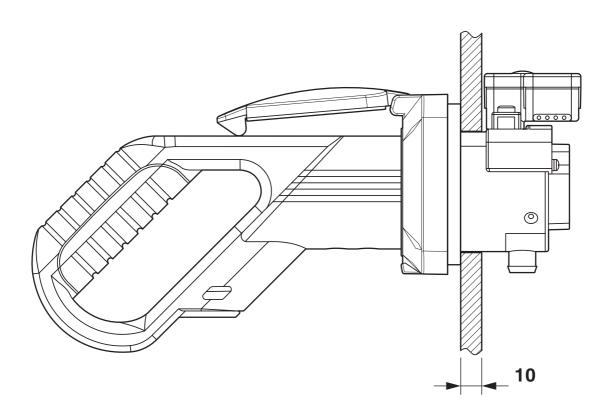
Panel thickness for rear mounting (max. 50 mm, with Phoenix Contact protective cover, max. 22 mm)



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### Schematic diagram

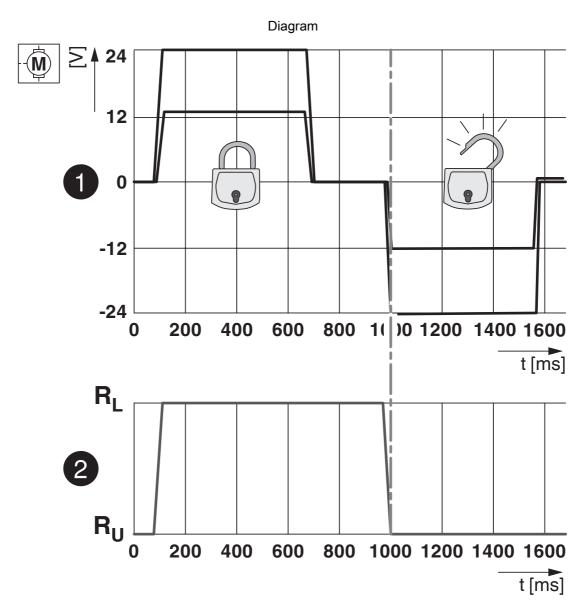


Panel thickness for front mounting (in mm)



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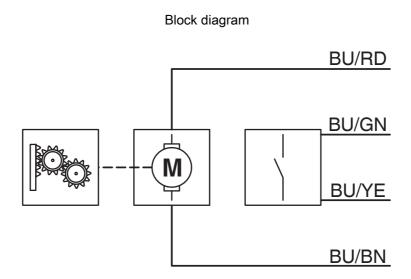


Locking states of the locking actuator



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Block diagram of the locking actuator



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### Classifications

#### **UNSPSC**

UNSPSC 21.0 39121522



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### Environmental product compliance

#### EU RoHS

| Fulfills EU RoHS substance requirements  Exemption | Yes<br>6(c)   |
|--|---|
| China RoHS   |   |
| Environment friendly use period (EFUP)             | EFUP-10   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC                                      |   |
| REACH candidate substance (CAS No.)                | Lead(CAS: 7439-92-1)  |

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