

1405214

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CHARX connect basic, Infrastructure charging socket, square, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: 0.7 m, locking actuator: 12 V, 4-pos., Rear panel mounting, housing: black, PHOENIX CONTACT logo

### 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	1405214
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	XWBADC
Product key	XWBADC
Catalog page	Page 36 (C-7-2019)
GTIN	4046356738477
Weight per piece (including packing)	652.94 g
Weight per piece (excluding packing)	564 g
Customs tariff number	85444290
Country of origin	DE



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### Technical data

### Product properties

Product type	Infrastructure charging socket
Product family	CHARX connect basic
Application	for charging electric vehicles (EV) with alternating current (AC)
	compatible with infrastructure charging plugs
Design (Infrastructure charging socket)	square
Affixed logo	PHOENIX CONTACT logo
Charging standard	Type 2
Charging mode	Mode 3, Case B

### Electrical properties

Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected
Type of charging current	AC 3-phase
Charging power	26.6 kW
Charging current	32 A

### Power contact

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

#### Signal contact

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

#### Locking actuator

Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	top center

Locking actuator	
Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	top center
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



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Pause time after entry or exit path	3 s
Service life insertion cycles	> 10000 load cycles
Lock recognition	available
Mechanical emergency release	available
Ambient temperature (operation)	-30 °C 50 °C

### M

Color (Housing)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
Flammability rating according to UL 94	V0 ()

#### Cable/line

Cable length	0.7 m ±5 mm
Cable type	Single wires
Cable structure	5x 6.0 mm² + 2x 0.5 mm²
Single wire, cross section	6.00 mm²
Single-core wires for AC	
Cable length	0.7 m ±5 mm

### Single-core wires for locking actuator

Cable length	0.5 m
Cable structure	4 x 0.5 mm <sup>2</sup>

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection (Infrastructure charging socket)	IP44
Degree of protection (Protective cover)	IP54 (see accessories)
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



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### Mounting

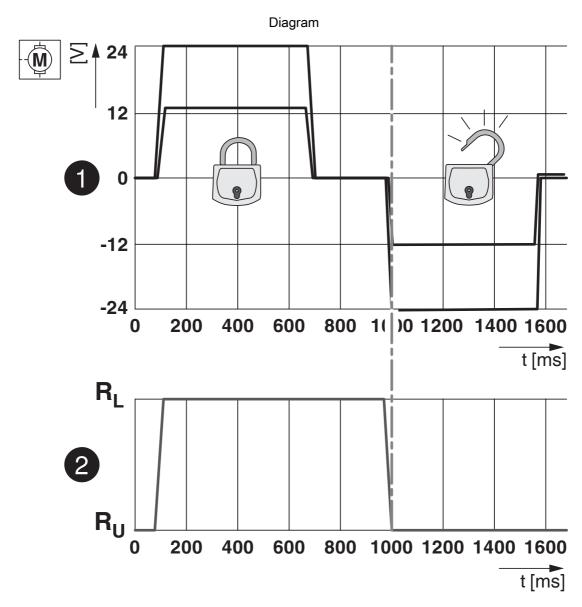
Mounting type Infrastructure charging socket	Rear panel mounting (0 to 90 degree frontal inclination possible)
	Front mounting (only possible when the locking actuator is removed (see EV-T2M3SEE00 versions))
Mounting type Protective cover	Rear panel mounting (available separately)
Max. wall thickness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



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### Drawings

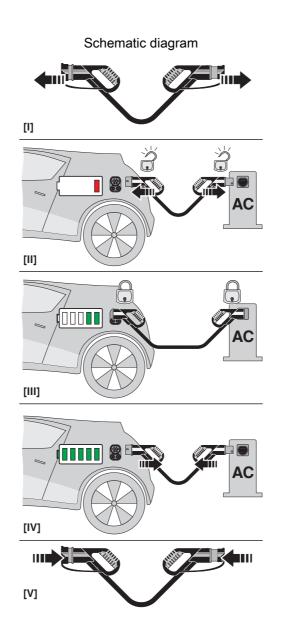


Locking states of the locking actuator



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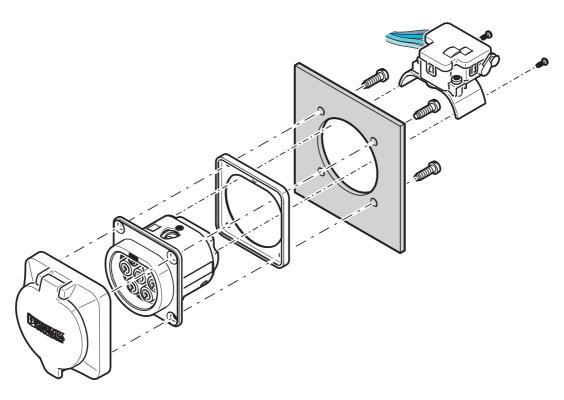
Operating instructions



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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).

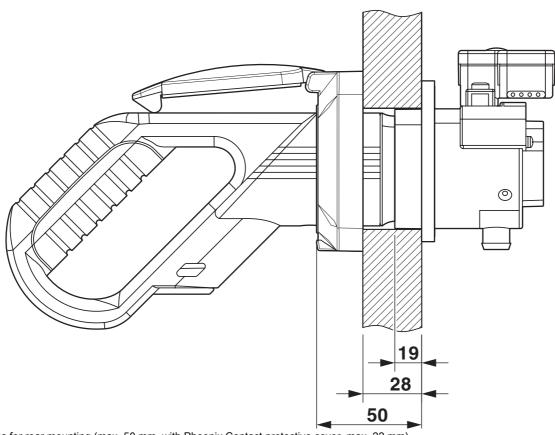
The screw connection for a protective cover from the accessories range (EV-T2SC) only supports rear mounting. The panel thickness must not exceed 10 mm. The sealing frame that is slid on from the front must contact the housing panel flush with the flat side and must completely surround the infrastructure socket outlet.



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### Schematic diagram



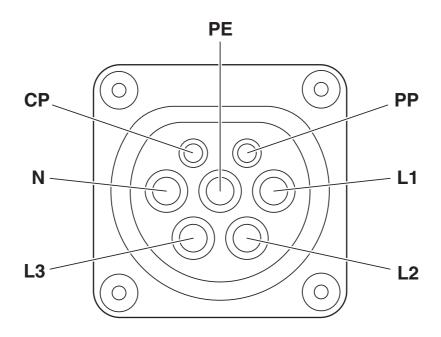
Panel thickness for rear mounting (max. 50 mm, with Phoenix Contact protective cover, max. 22 mm)



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### Connection diagram



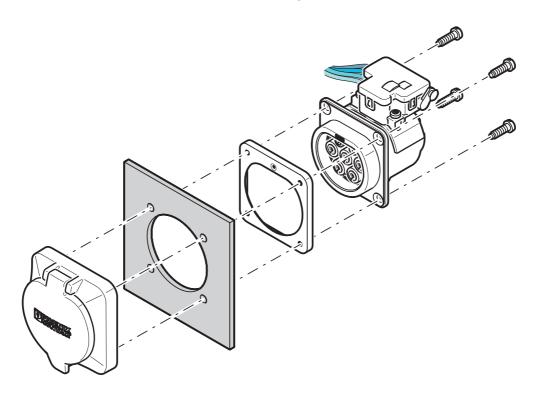
Pin assignment of infrastructure charging socket



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### Schematic diagram



Rear mounting with rear protective cover screw connection

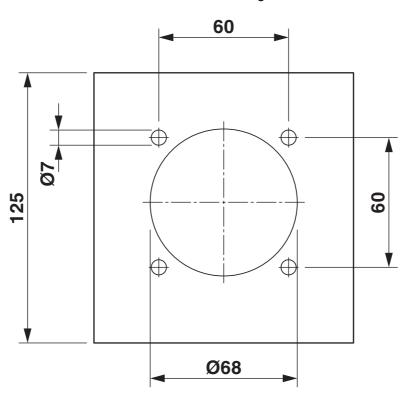
The screw connection for a protective cover from the accessories range (EV-T2SC) only supports rear mounting. The panel thickness must not exceed 5 mm. The sealing frame that is slid on from the rear must contact the housing panel flush with the flat side and must completely surround the infrastructure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



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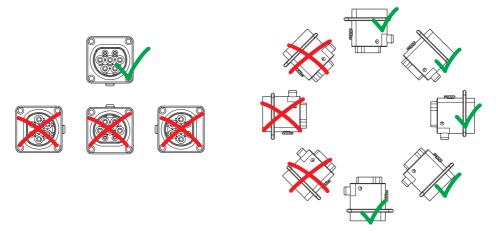
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### Dimensional drawing



Hole image

### Schematic diagram

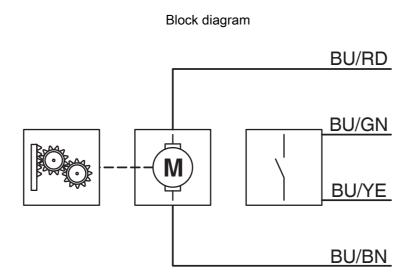


Installation positions

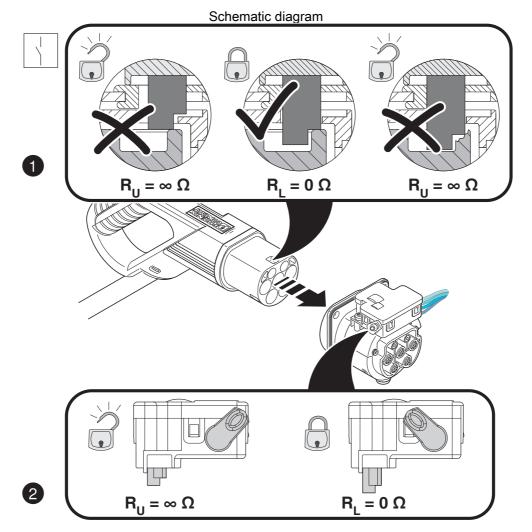


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Block diagram of the locking actuator



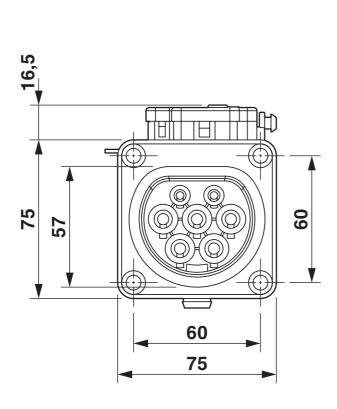
Detection of the Infrastructure Plug

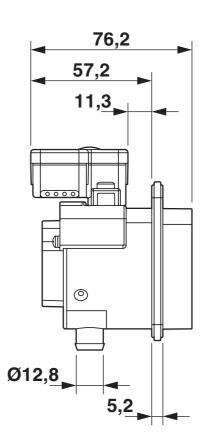


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### Dimensional drawing





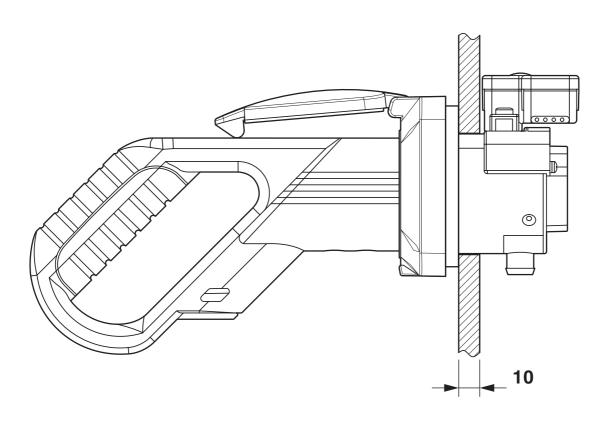
Dimensional drawing



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### Schematic diagram



Panel thickness for front mounting (in mm)



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### Classifications

UNSPSC 21.0

### **ECLASS**

202.00				
	ECLASS-11.0	27144706		
	ECLASS-12.0	27144706		
	ECLASS-13.0	27144706		
ETIM				
	ETIM 8.0	EC002898		
UNSPSC				
	ETIM 8.0	EC002898		

39121800



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### Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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### Accessories

EV-LABEL-C-SO - Label

1315521

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CHARX connect, Label, Accessories, for AC type 2 infrastructure charging socket and for AC type 2 infrastructure charging plug, DIN EN 17186



#### EV-T2SC - Protective cover

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CHARX connect basic, Protective cover, square, Accessories, with self-locking mechanism, for attaching to infrastructure charging sockets, Type 2, IEC 62196-2, Front mounting, M5 thread, housing: black, Embossed PHOENIX CONTACT logo



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### EV-T2SF - Panel mounting frames

1405218

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CHARX connect basic, Panel mounting frames, Accessories, for attaching to infrastructure charging sockets, Type 2, IEC 62196-2, Front mounting, M5 thread, housing: black, Without logo

#### EV-GBSCO - Protective cover

1623415

https://www.phoenixcontact.com/gb/products/1623415



CHARX connect basic, Protective cover, circular, Accessories, with self-opening mechanism, for attaching to infrastructure charging sockets, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, housing: black, Adhered "PHOENIX CONTACT" sticker



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#### EV-GBSC - Protective cover

1623416

https://www.phoenixcontact.com/gb/products/1623416



CHARX connect basic, Protective cover, circular, Accessories, with self-locking mechanism, for attaching to infrastructure charging sockets, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, housing: black, Adhered "PHOENIX CONTACT" sticker

#### EV-GBSC-D6,5MM - Protective cover

1623888

https://www.phoenixcontact.com/gb/products/1623888



CHARX connect basic, Protective cover, circular, Accessories, with self-locking mechanism, for attaching to infrastructure charging sockets, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, housing: black, Adhered "PHOENIX CONTACT" sticker



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### EV-T2M3S-E-LOCK12V - Locking

1624129

https://www.phoenixcontact.com/gb/products/1624129



CHARX connect modular, Locking, Accessories, for attaching to infrastructure charging sockets, Type 2, GB/T, IEC 61851-1, Single wires, length: 0.5 m, locking actuator: 12 V, 4-pos.

### EV-T2M3S-E-LOCK24V - Locking

1622317

https://www.phoenixcontact.com/gb/products/1622317



CHARX connect modular, Locking, Accessories, with single-core wires, without holder, for locking infrastructure charging sockets when plug is inserted, Type 2, GB/T, IEC 61851-1, Single wires, length: 0.5 m, locking actuator: 24 V, 4-pos.



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

1621668

https://www.phoenixcontact.com/gb/products/1621668



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

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

1621465

https://www.phoenixcontact.com/gb/products/1621465

CHARX connect basic, 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





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

2902802

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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.

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

1622452

https://www.phoenixcontact.com/gb/products/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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#### EV-CC-AC1-M3-CBC-SER-PCB - AC charging controller

1622453

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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.

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

1627743

https://www.phoenixcontact.com/gb/products/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.



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

1627353

https://www.phoenixcontact.com/gb/products/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.

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