

# EV-T2M3SE24-3AC20A-0,7M2,5E10 - Infrastructure charging socket



1405215

<https://www.phoenixcontact.com/us/products/1405215>

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CHARX connect, Type 2, Infrastructure charging socket, 20 A , 480 V AC, Gen 1, Single-core wires connected at one end, length: 0.7 m, locking actuator: 24 V, 4-pos., Rear panel mounting, 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	1405215
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBADC
GTIN	4046356738484
Weight per piece (including packing)	526 g
Weight per piece (excluding packing)	526 g
Country of origin	DE

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## Technical data

### Product properties

Product type	Infrastructure charging socket
Product family	CHARX connect
Type	Gen 1
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

#### Pin assignment (Power contacts)

Number	5 (L1, L2, L3, N, PE)
Rated voltage	480 V AC
Rated current	20 A

#### Pin assignment (Signal contacts)

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

#### Locking actuator

Locking actuator	24 V, 4-pos.
	Top center position
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	1 s
Recommended adaptation time	600 ms
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
Cable length	0.5 m
Cable structure	4 x 0.5 mm <sup>2</sup>
Bending radius	min. 15 mm
External cable diameter	1.60 mm ±0.02 mm

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Cable weight	7.00 kg/km
Cable resistance	≤ 37.1 Ω/m
Single wire, color	BU/RD, BU/GN, BU/YE, BU/BN

## Dimensions

### Infrastructure charging socket

Width	75 mm
Height	96 mm
Depth	76.2 mm

### Bore dimensions

Width	60 mm
Height	60 mm

## Cable/line

Cable length	0.7 m (AC cables)
	0.5 m (Locking actuator cables)
Cable type	Single-core wires connected at one end
Cable structure	5 x 2.5 mm <sup>2</sup> + 2 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

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-T2M3SE...E00 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



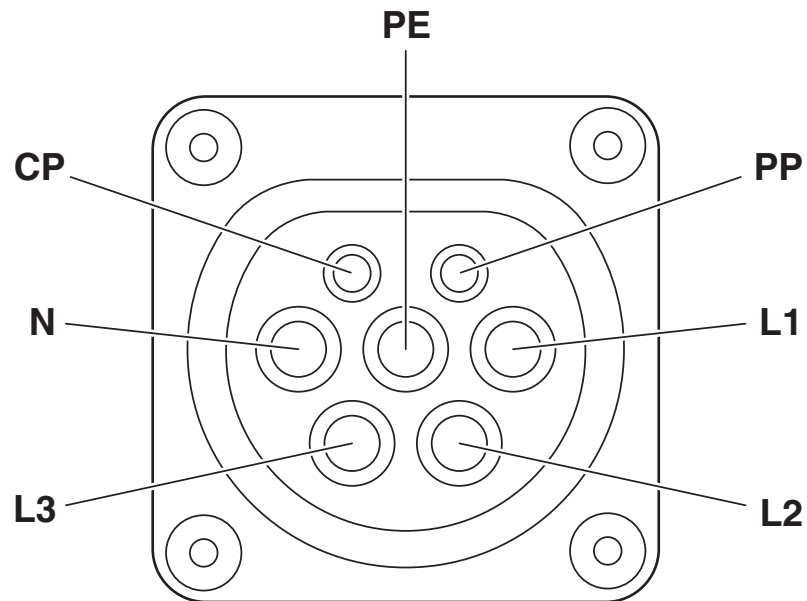
Dimensional drawing

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Connection diagram



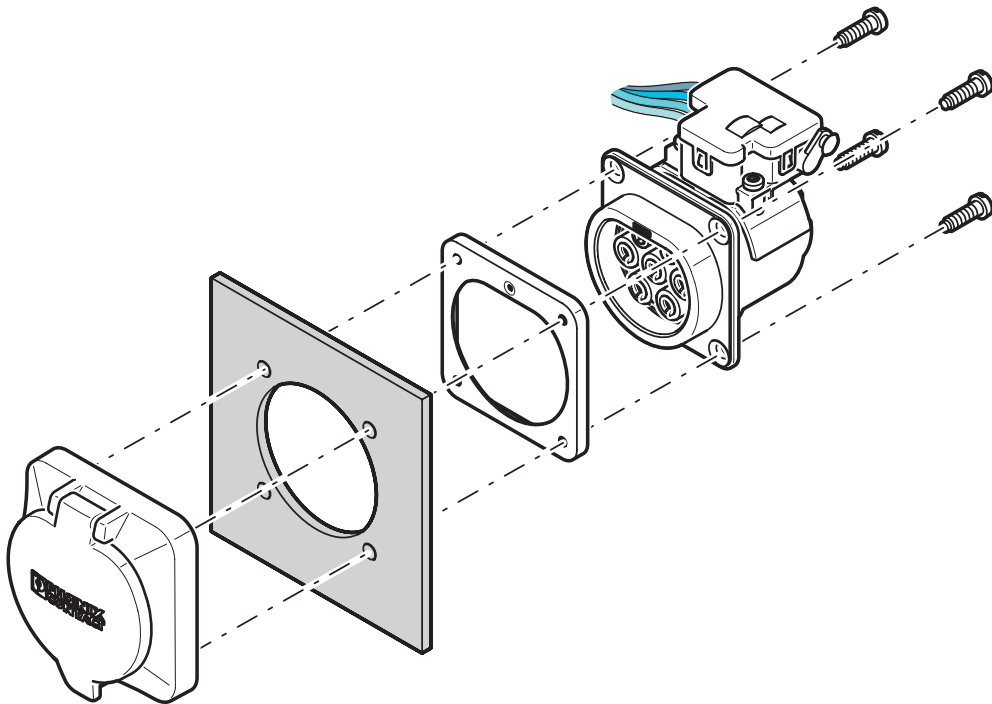
Pin assignment of infrastructure charging socket

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Schematic diagram



## Rear mounting with rear protective cover screw connection

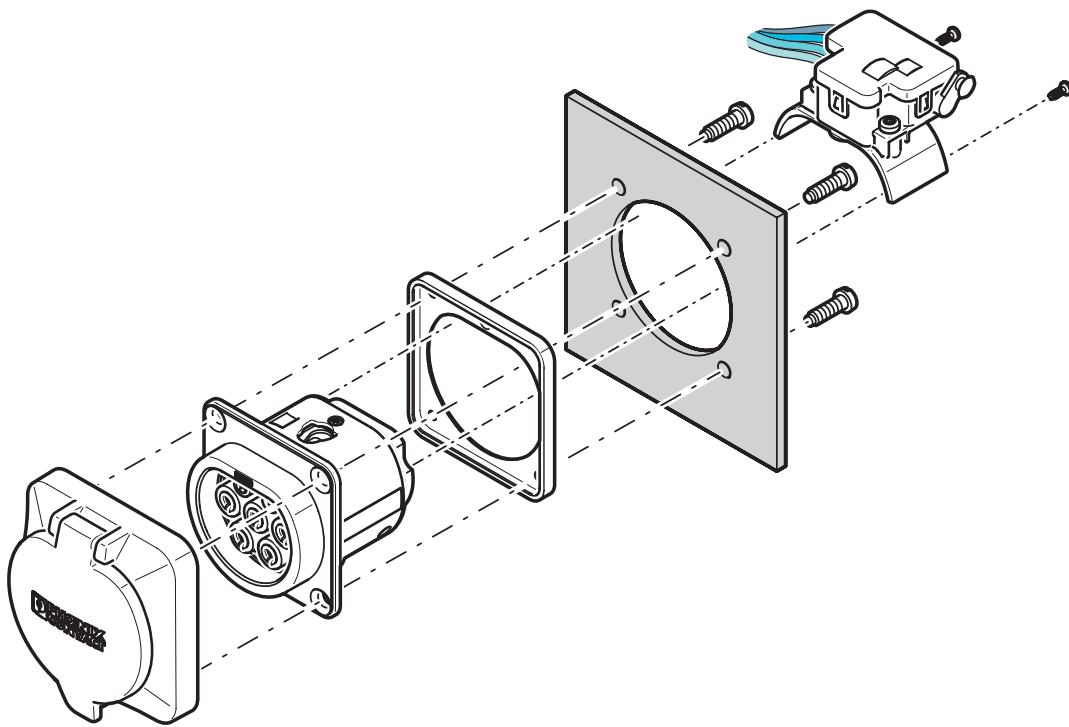
The screw connection for a protective cover from the accessories range (EV-T2SC) only supports rear mounting. The panel thickness must not exceed 5 mm. The sealing frame that is slid on from the rear must contact the housing panel flush with the flat side and must completely surround the infrastructure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



Operating instructions

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Detection of the Infrastructure Plug

## Schematic diagram



Installation positions

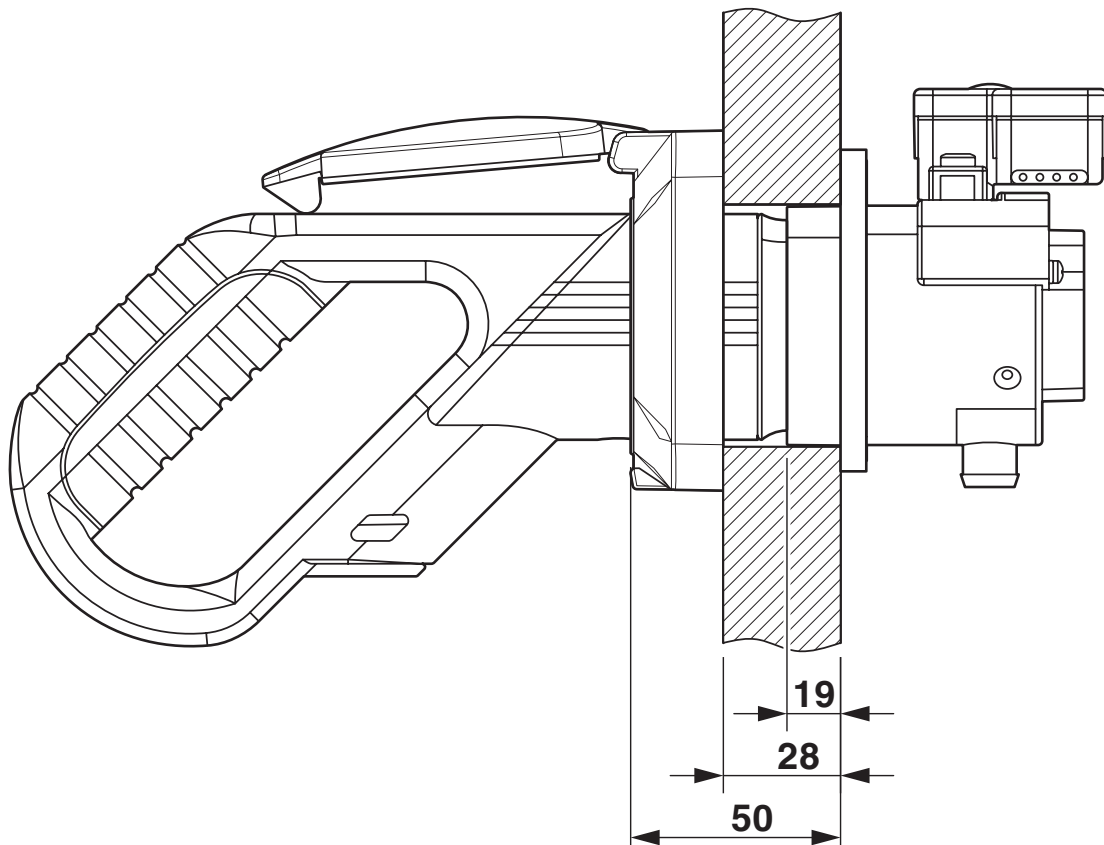
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Schematic diagram



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

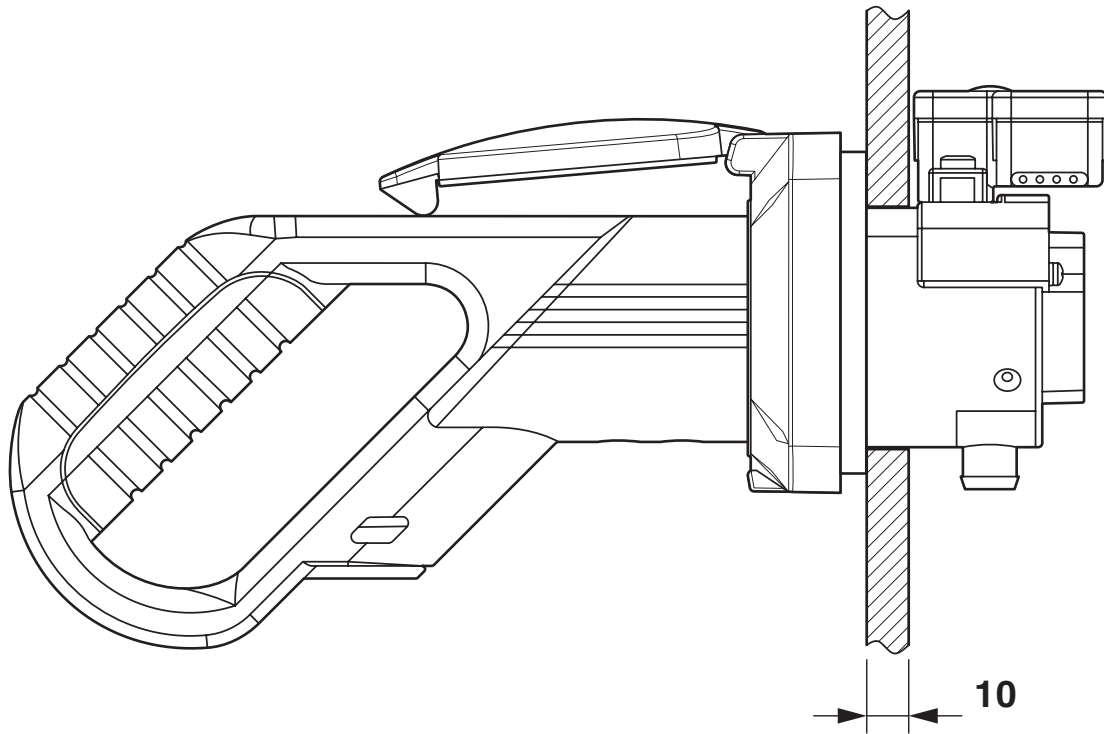
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Schematic diagram

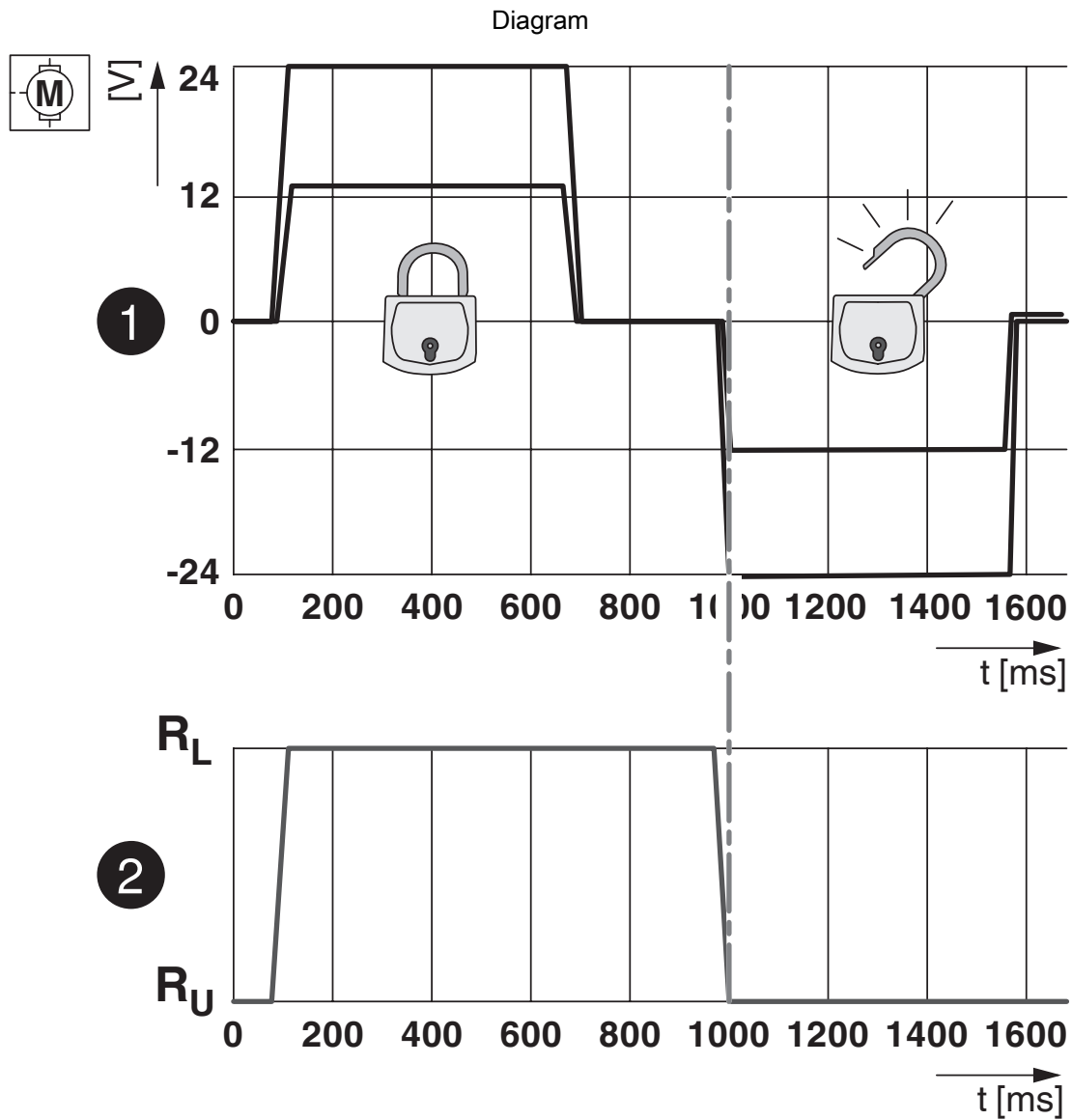


Panel thickness for front mounting (in mm)

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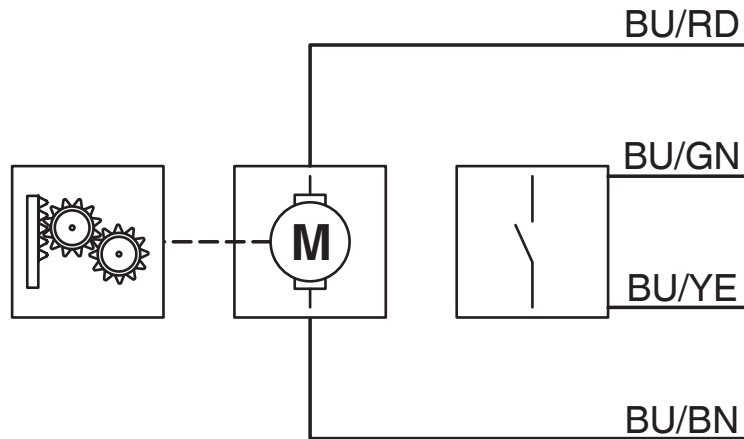
Locking states of the locking actuator

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Block diagram



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	Yes
Exemption	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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