

EV-GBM3SE12-1AC32A-2,0M6,0E10 - Infrastructure charging socket



1624387

<https://www.phoenixcontact.com/us/products/1624387>

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CHARX connect, GB/T, Infrastructure charging socket, 32 A , 250 V AC, length: 2 m, locking actuator: 12 V, 4-pos., Rear panel mounting, for charging electric vehicles with alternating current (AC), GB/T 20234.2-2015

Product description

Infrastructure charging socket for charging electric vehicles (EV) with alternating current (AC), compatible with GB/T 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
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Manual emergency release of the locking actuator
- Material data available in the IMDS (International Material Data System of the automotive industry)
- Integrated interlock during charging

Commercial data

Item number	1624387
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBADF
GTIN	4055626275253
Weight per piece (including packing)	720 g
Weight per piece (excluding packing)	620 g
Country of origin	Information on the country of origin is provided with the delivery.

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Technical data

Product properties

Product type	Infrastructure charging socket
Product family	CHARX connect
Charging standard	GB/T
Charging mode	Mode 3, Case B
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, 1-phase)

Type of charging current	AC single-phase
Charging current	32 A AC (1-phase)
Charging power	8 kW
Charging power rating	7.4 kW

Pin assignment (Power contacts)

Number	3 (L1, N, PE)
Rated voltage	250 V AC
Rated current	32 A

Pin assignment (Signal contacts)

Number	2 (CP, CC)
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
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

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Cable structure	4 x 0.5 mm ²
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Cable/line

Cable length	2 m (AC cables)
	0.5 m (Locking actuator cables)
Cable structure	3 x 6.0 mm ² + 2 x 0.5 mm ²

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	GB/T 20234.2-2015
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Mounting

Mounting type Infrastructure charging socket	Rear panel mounting (0 to 90 degree frontal inclination possible)
Mounting type Protective cover	rear (available separately)
Mounting hole diameter	7.00 mm (ø)

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Drawings

Dimensional drawing



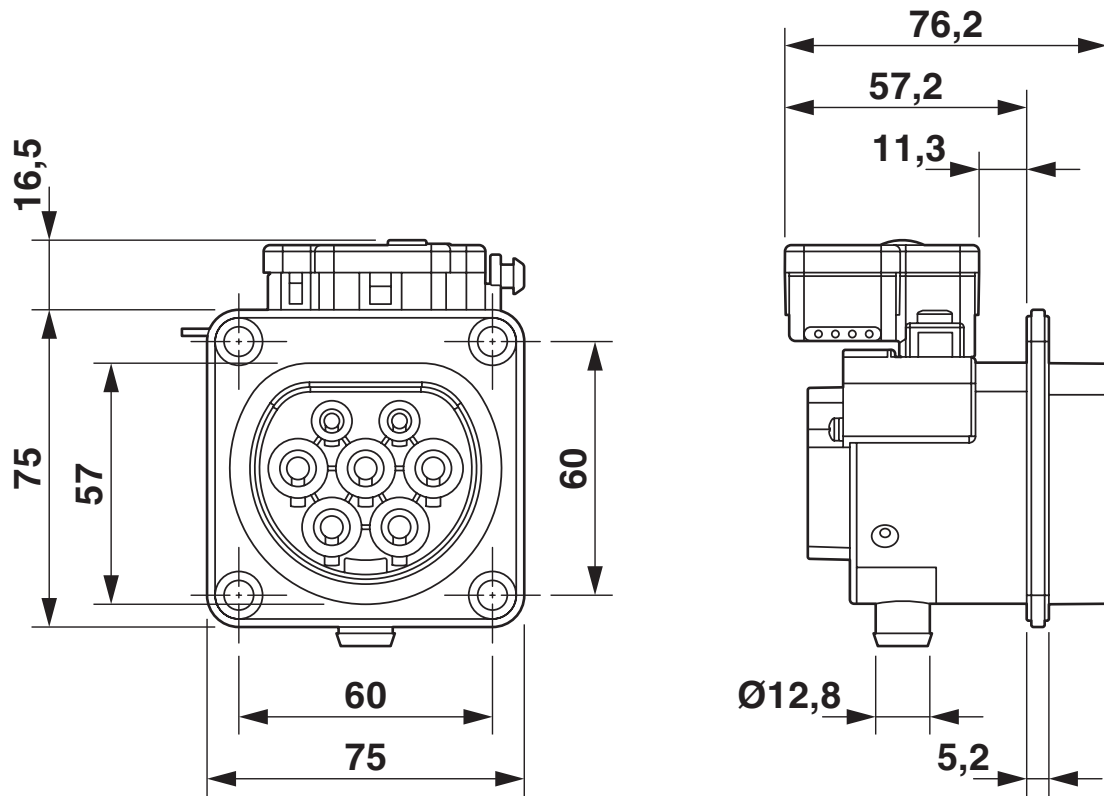
Hole image

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Dimensional drawing



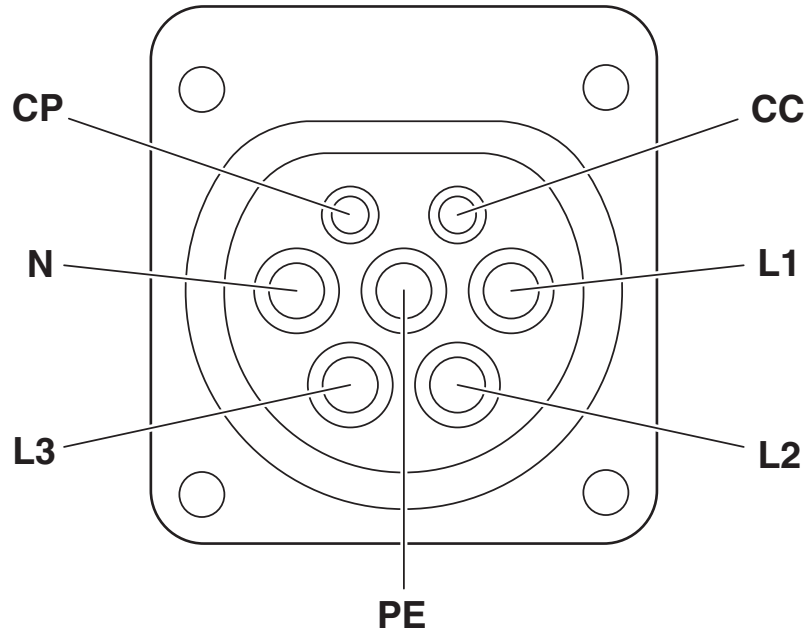
Dimensional drawing

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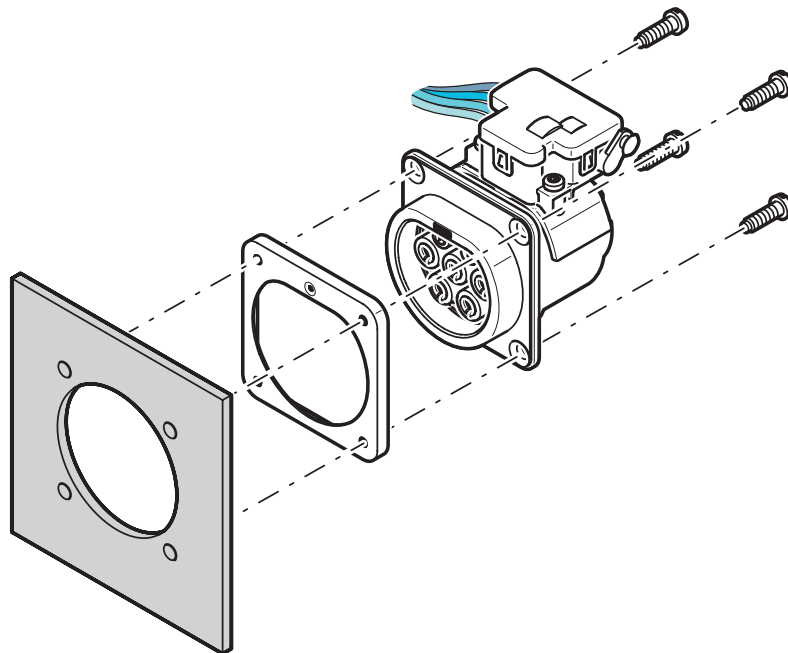
<https://www.phoenixcontact.com/us/products/1624387>

Connection diagram



Pin assignment of infrastructure charging socket

Schematic diagram



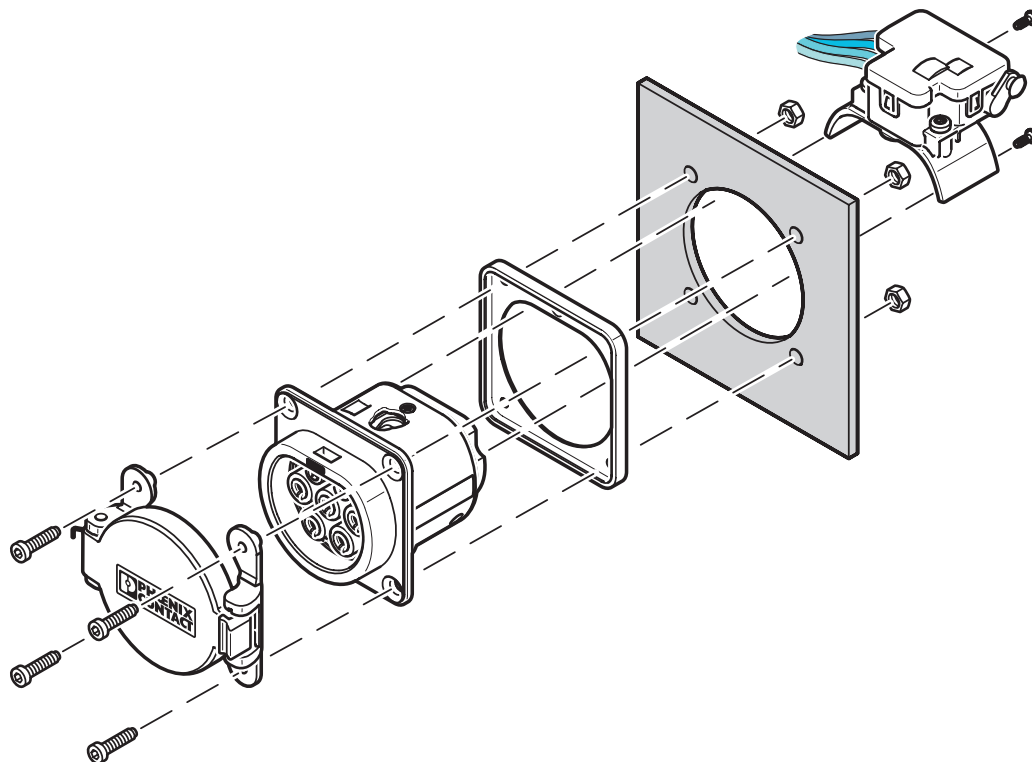
Rear mounting with locking actuator

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Schematic diagram



Front mounting with rear protective cover screw connection

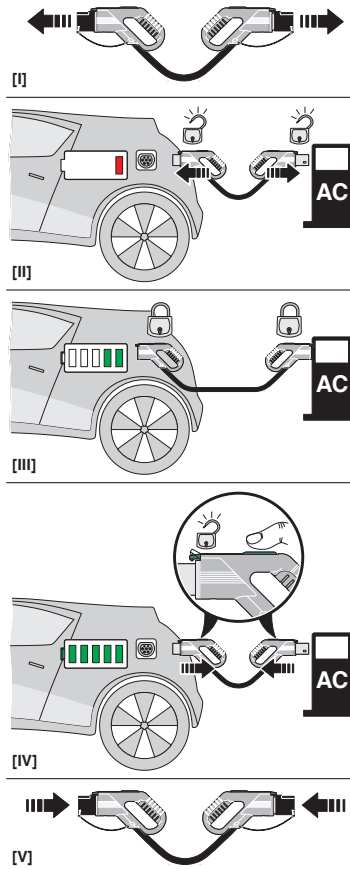
Front mounting is only possible when the locking actuator is removed. The screw connection for a protective cover from the accessories range (EV-GBSC...) only supports rear mounting.

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Schematic diagram

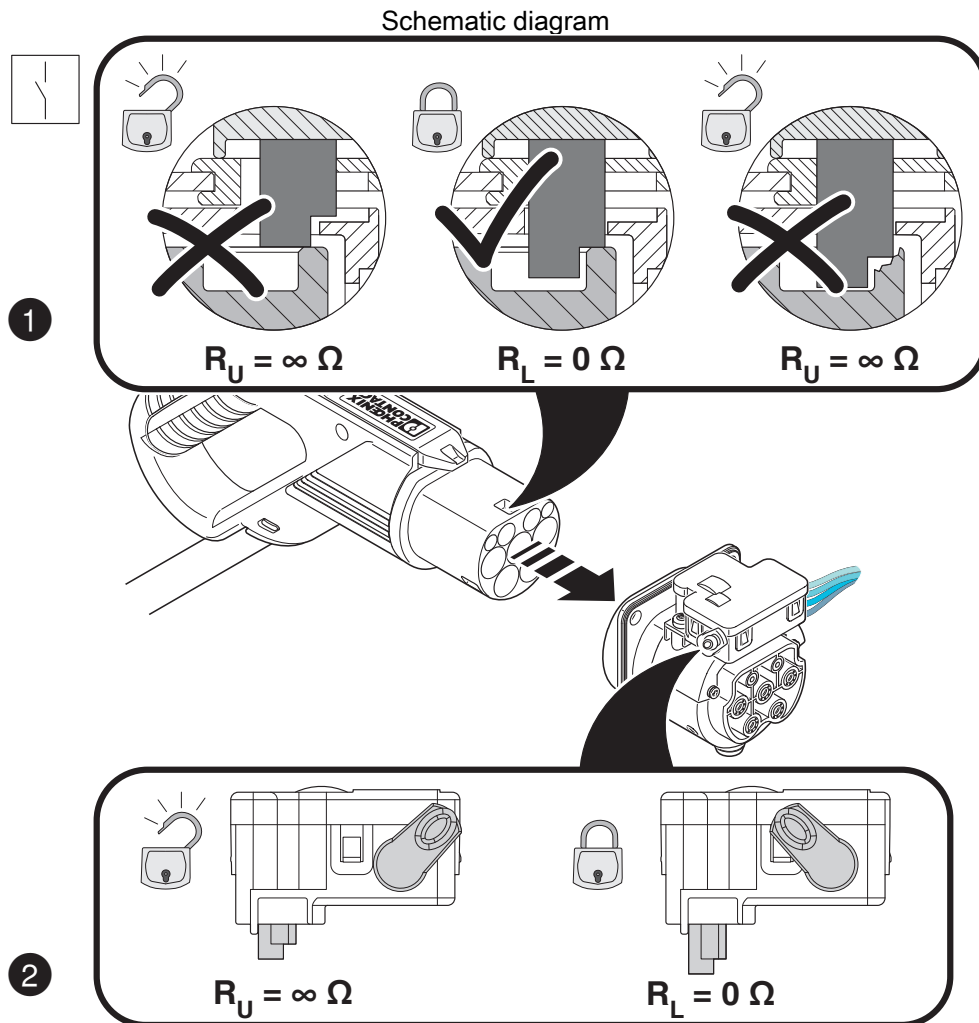


Operating instructions

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Detection of the Infrastructure Plug

Schematic diagram

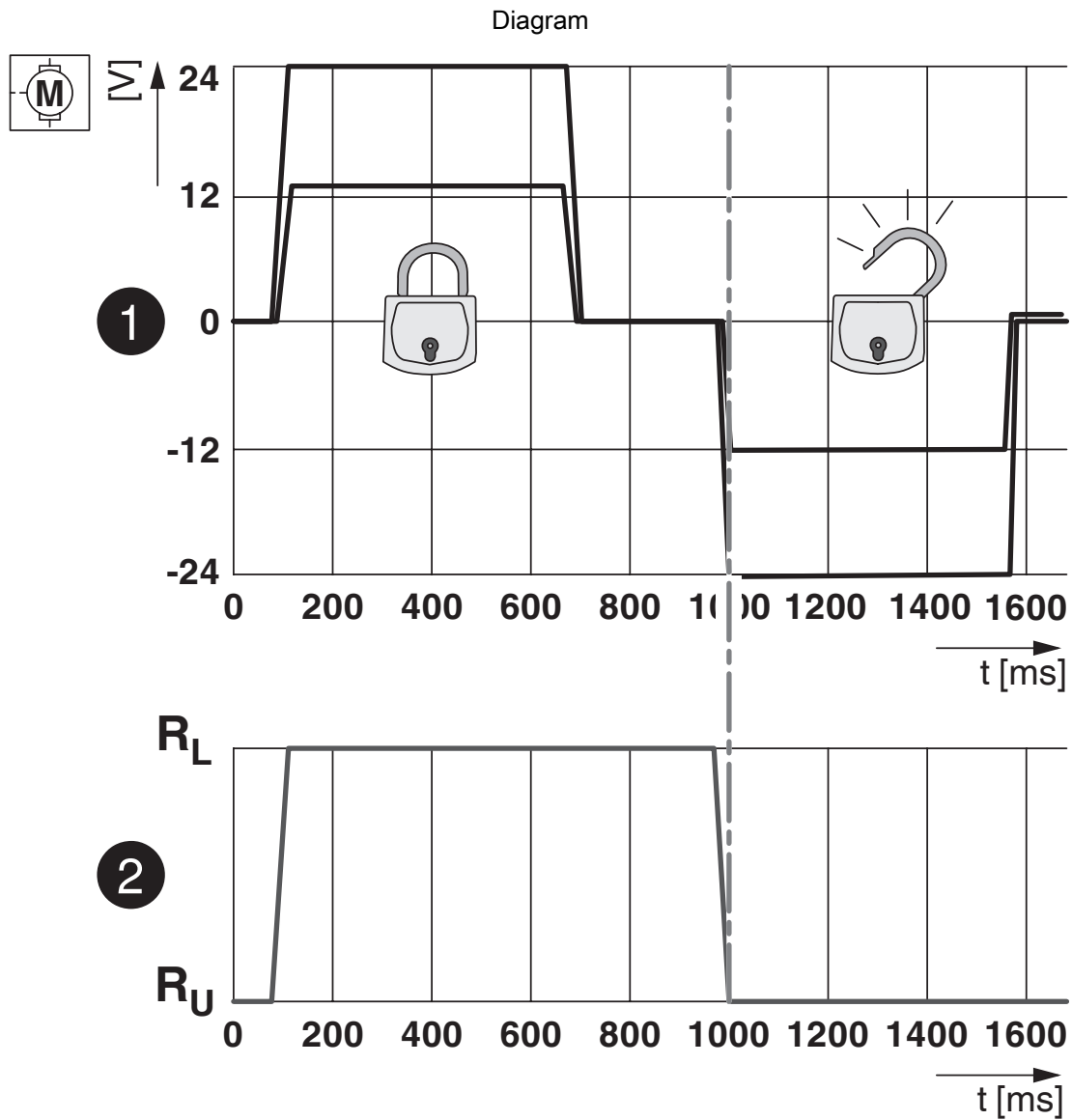


Installation positions

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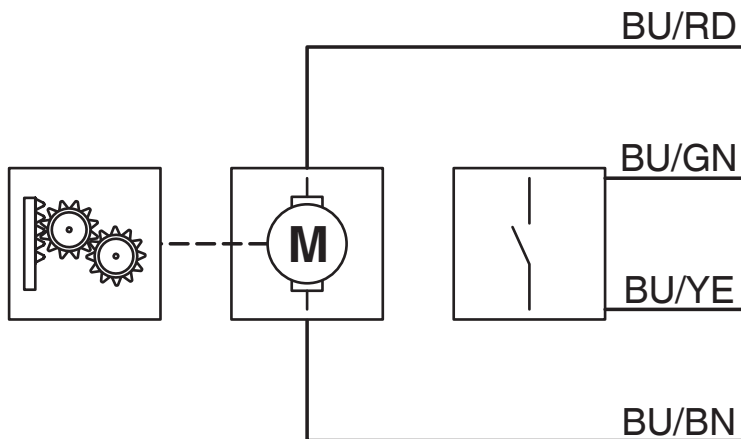
Locking states of the locking actuator

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Block diagram



Block diagram of the locking actuator

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Environmental product compliance

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.)	No substance above 0.1 wt%
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