

# EV-GBM3SE12-1AC32A-0,7M6,0E10T - Infrastructure charging socket



1627347

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CHARX connect, GB/T, Infrastructure charging socket, 32 A , 250 V AC, length: 0.7 m, locking actuator: 12 V, 4-pos., Rear panel mounting, for charging electric vehicles with alternating current (AC), GB/T 20234.2-2015, With temperature measurement via Pt 1000 sensors

## 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
- Integrated temperature sensors for monitoring the temperature at the power contacts
- Integrated interlock during charging

## Commercial data

Item number	1627347
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBADF
GTIN	4055626318011
Weight per piece (including packing)	506 g
Weight per piece (excluding packing)	506 g
Country of origin	CN

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## Technical data

### Notes

General	With temperature measurement via Pt 1000 sensors
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### 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
Temperature measurement	4x Pt 1000 (DIN EN 60751)

### 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

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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>

## Temperature sensors (Pt 1000)

Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	4 sensors for the AC contacts
Switch-off temperature	90 °C ±1 K (equivalent to a Pt 1000 value of 1346.5 Ω)
Long-term stability	0.06 % (after 1000 hours at 130 °C)
Recommended measured current	1 mA (1 V at 0°C)
Coefficient	3850 ppm/K
Ambient temperature	-50 °C ... 130 °C (Operation)

## Cable/line

Cable length	0.7 m (AC cables)
	0.5 m (Locking actuator cables)
Cable structure	3 x 6.0 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	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

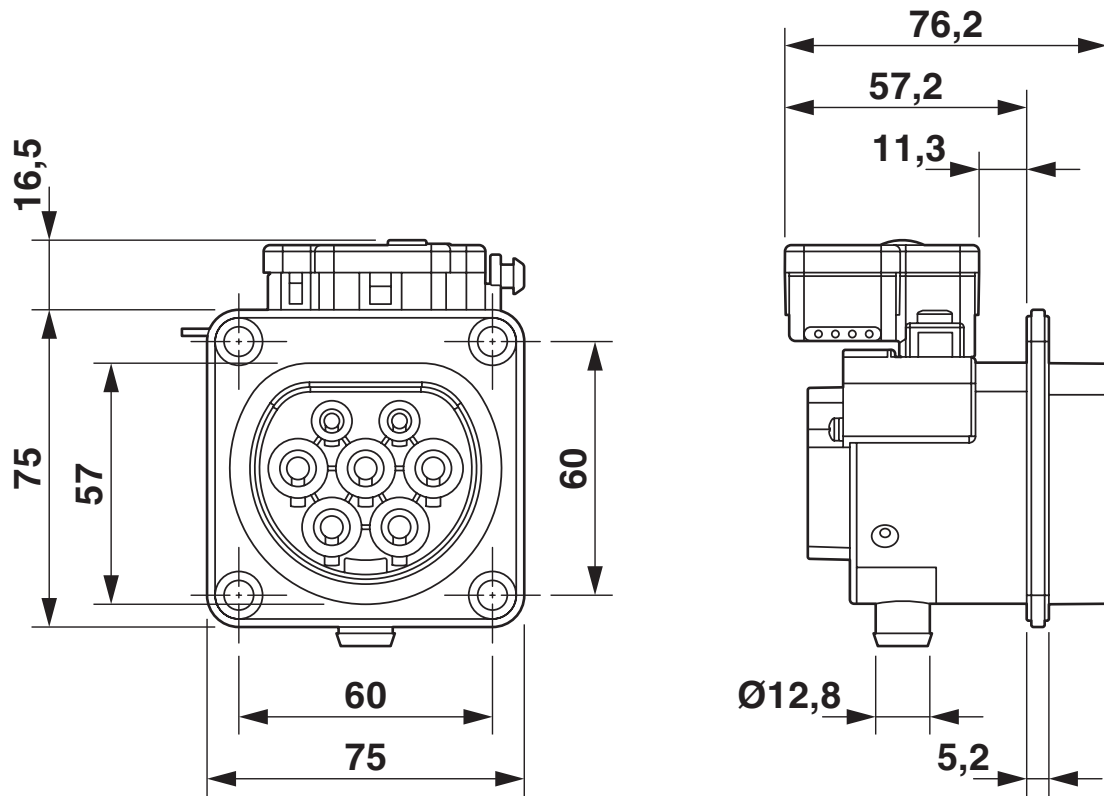
# EV-GBM3SE12-1AC32A-0,7M6,0E10T - Infrastructure charging socket



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Dimensional drawing



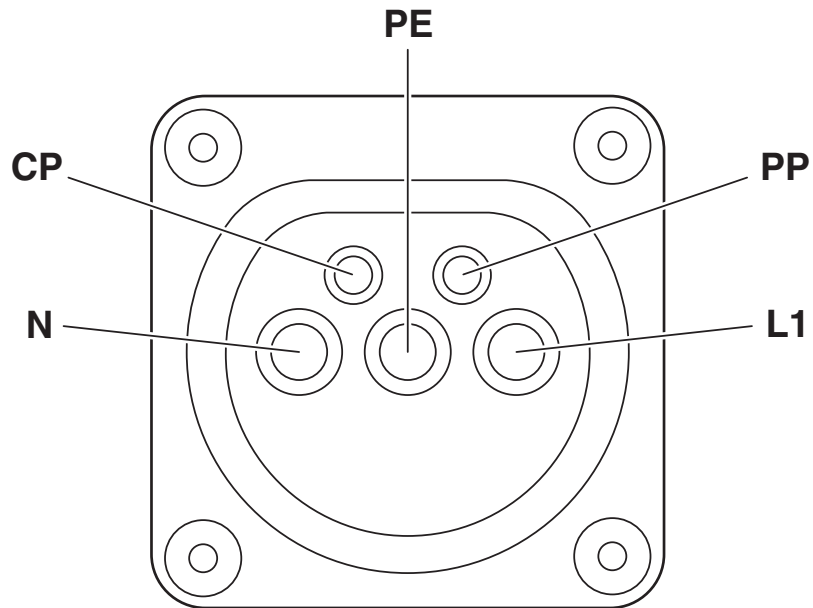
Dimensional drawing

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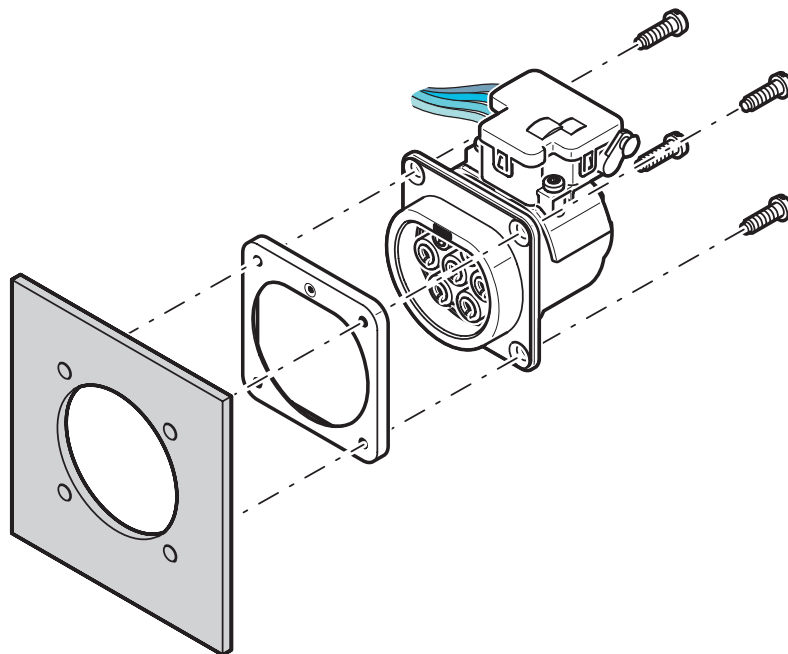
<https://www.phoenixcontact.com/us/products/1627347>

Connection diagram



Pin assignment of infrastructure charging socket

Schematic diagram



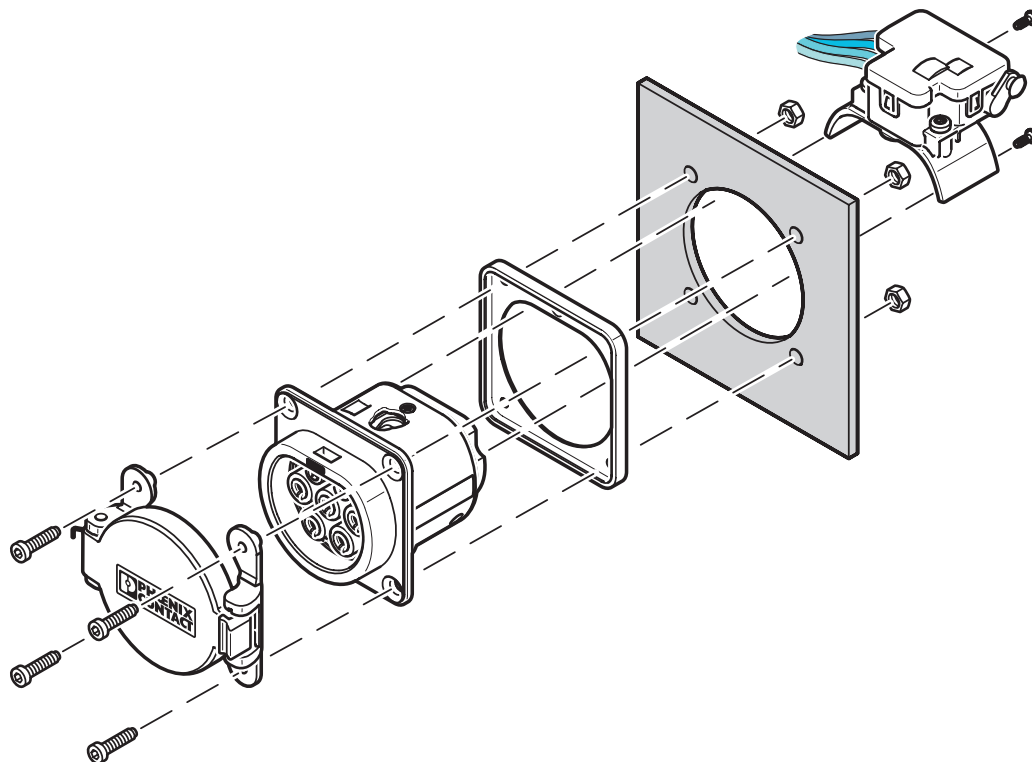
Rear mounting with locking actuator

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Schematic diagram



Front mounting with rear protective cover screw connection

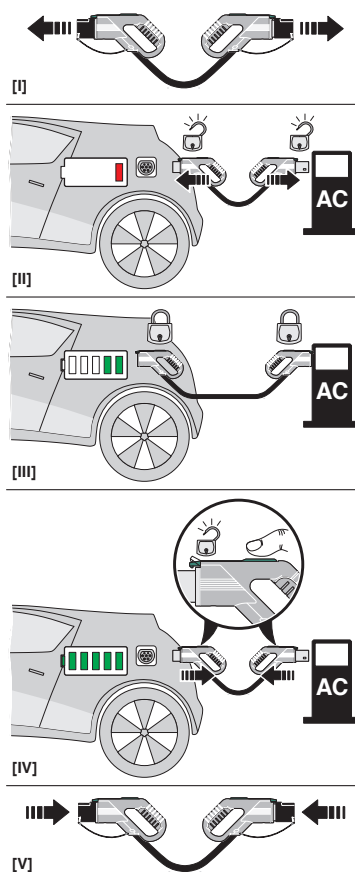
Front mounting is only possible when the locking actuator is removed. The screw connection for a protective cover from the accessories range (EV-GBSC...) only supports rear mounting.

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## Schematic diagram

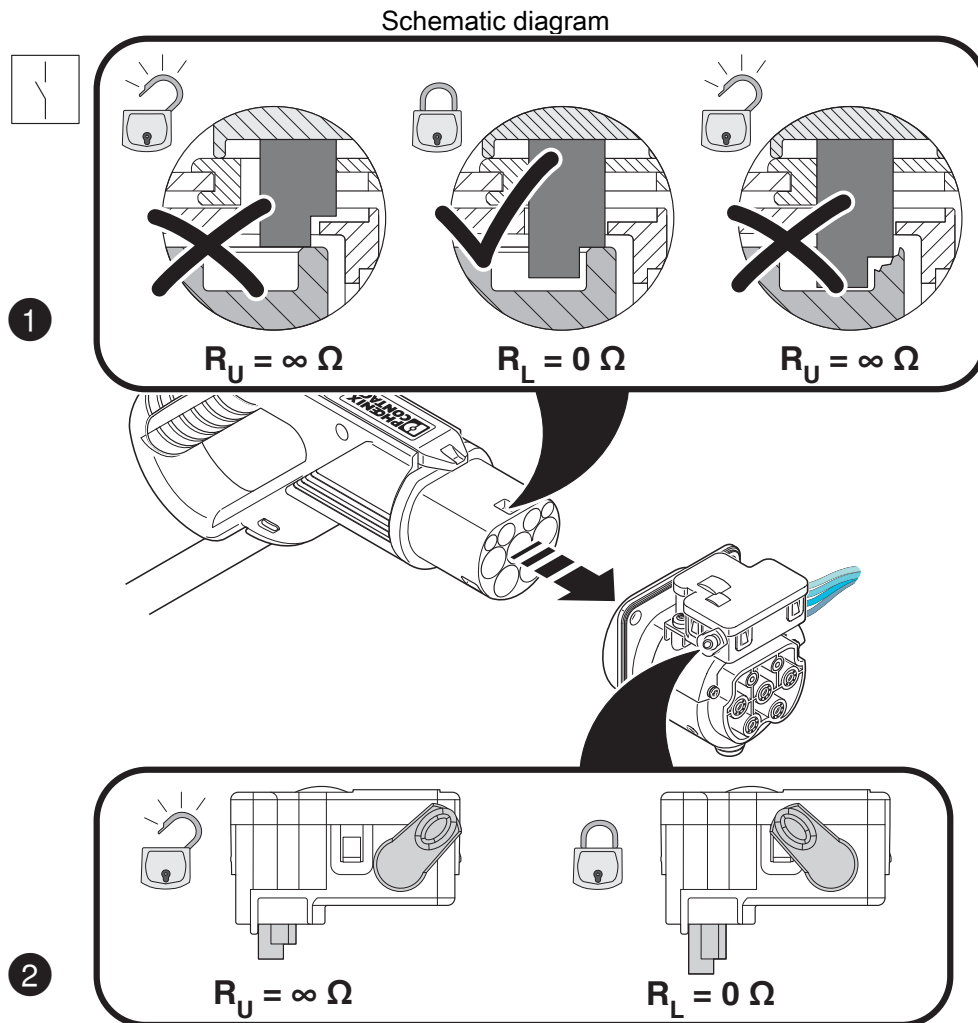


Operating instructions

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Detection of the Infrastructure Plug

## Schematic diagram

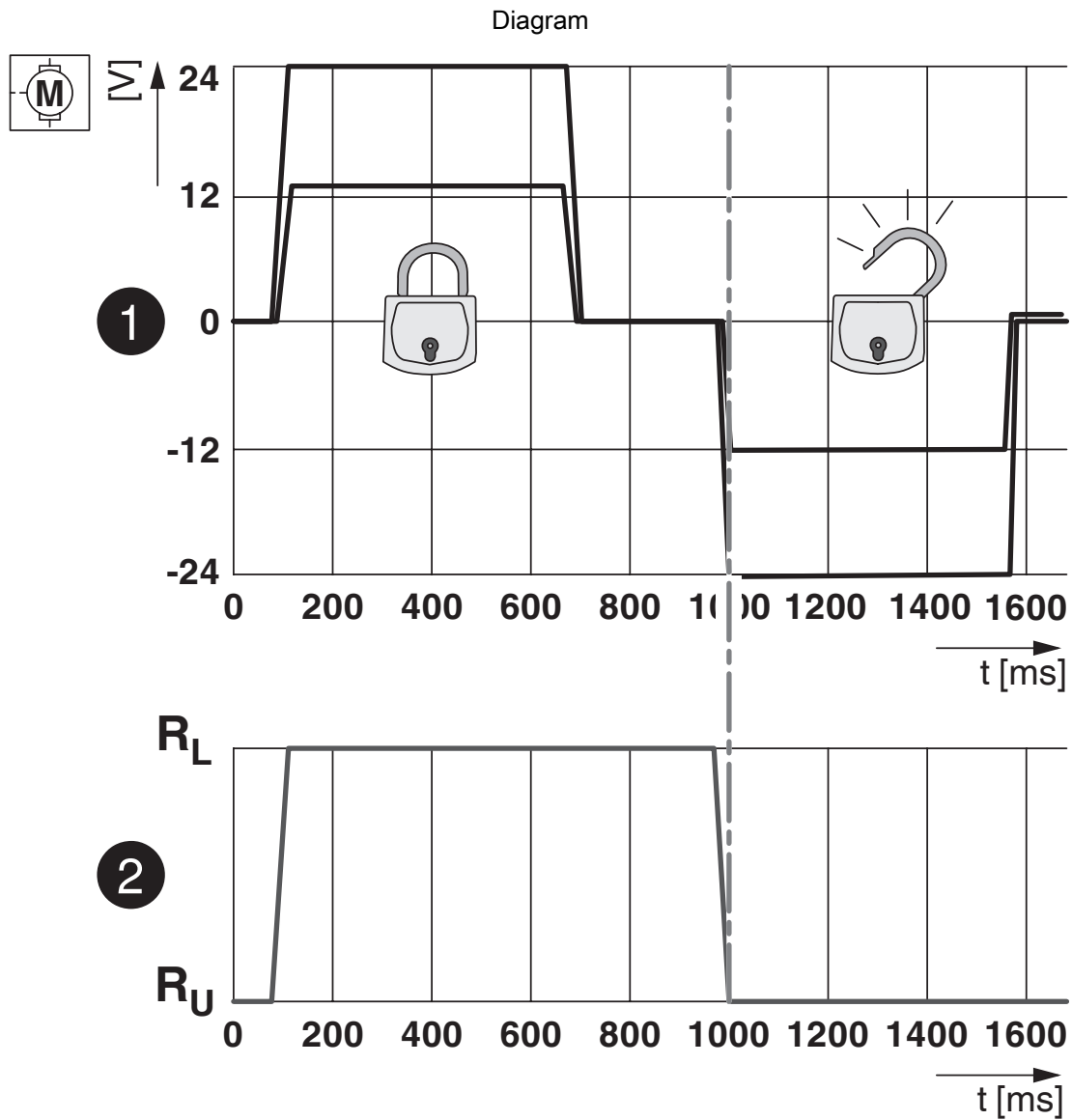


Installation positions

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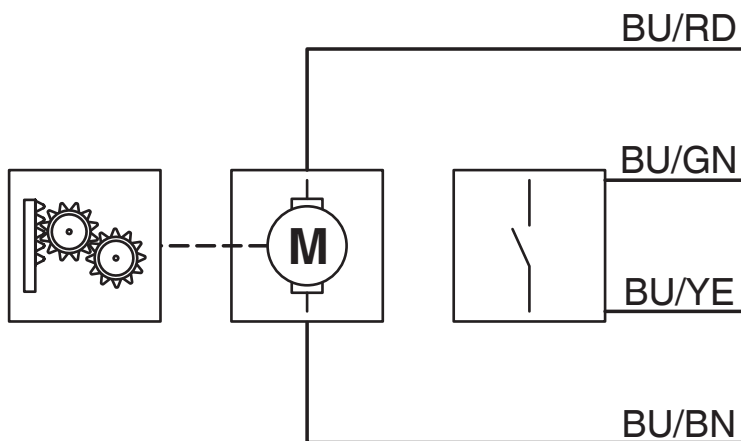
Locking states of the locking actuator

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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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