

# EV-GBM3SL12-1AC32A-0,7M6,0E10T - Infrastructure charging socket



1039245

<https://www.phoenixcontact.com/us/products/1039245>

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CHARX connect basic, GB/T, Infrastructure charging socket, 32 A , 250 V AC, Gen 1, Single-core wires connected at one end, length: 0.5 m, locking actuator: 12 V, 3-pos., square, Rear panel mounting, housing: black, with temperature sensors, for charging electric vehicles with alternating current (AC), PHOENIX CONTACT logo, 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

- 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	1039245
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBFBA
GTIN	4055626592145
Weight per piece (including packing)	560 g
Weight per piece (excluding packing)	550 g
Country of origin	CN

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## Technical data

### Product properties

Product type	Infrastructure charging socket
Product family	CHARX connect basic
Type	Gen 1
Design	with temperature sensors
Charging standard	GB/T
Charging mode	Mode 3, Case B
Design (Infrastructure charging socket)	square
Affixed logo	PHOENIX CONTACT logo
Customer variations	On request

### Electrical properties

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 (1-phase)
Charging power rating	7.4 kW (32 A, 1-phase)
Operating voltage	typ. 220 V AC

#### Pin assignment (Power contacts)

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

#### Pin assignment (Signal contacts)

Type of signal transmission	Pulse width modulation
Number	2 (CP, CC)
Rated voltage	30 V AC
Rated current	2 A

#### Locking actuator

Locking actuator	12 V, 3-pos.
	Top center position

#### 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)

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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)

## Dimensions

### Infrastructure charging socket

Dimensional drawing	<p>Dimensional drawing</p>
Width	75 mm
Height	96 mm
Depth	76.2 mm

### Bore dimensions

Dimensional drawing	<p>Hole image</p>
Width	60 mm
Height	60 mm

## Material specifications

Color (Housing)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver

## Cable/line

Cable length	0.5 m
Cable type	Single-core wires connected at one end
Cable structure	3 x 6.0 mm <sup>2</sup> + 2 x 0.5 mm <sup>2</sup>
Single wire, cross section	6.00 mm <sup>2</sup>

### Single-core wires for locking actuator

Cable length	0.5 m
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Cable structure	4 x 0.5 mm <sup>2</sup>
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## 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)	IP55 (plugged in)
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## 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)

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## Drawings

Dimensional drawing



Hole image

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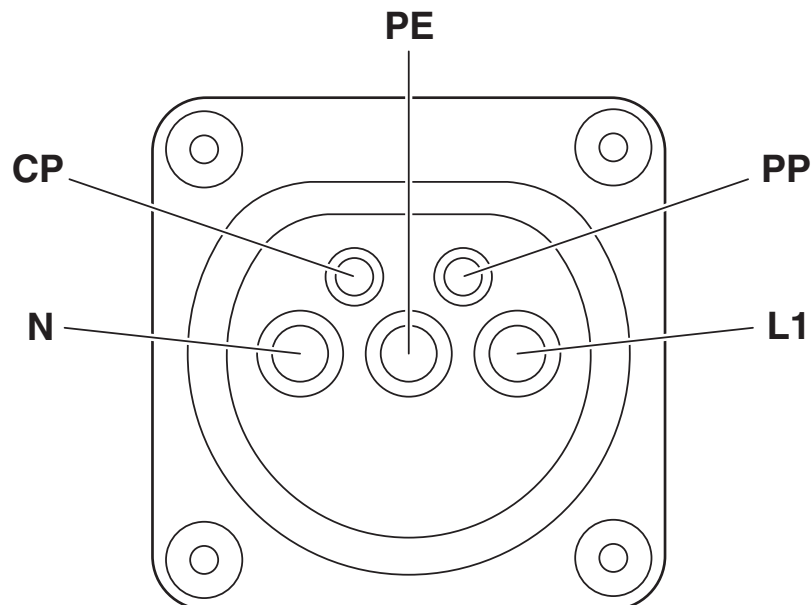
<https://www.phoenixcontact.com/us/products/1039245>

Dimensional drawing



Dimensional drawing

Connection diagram



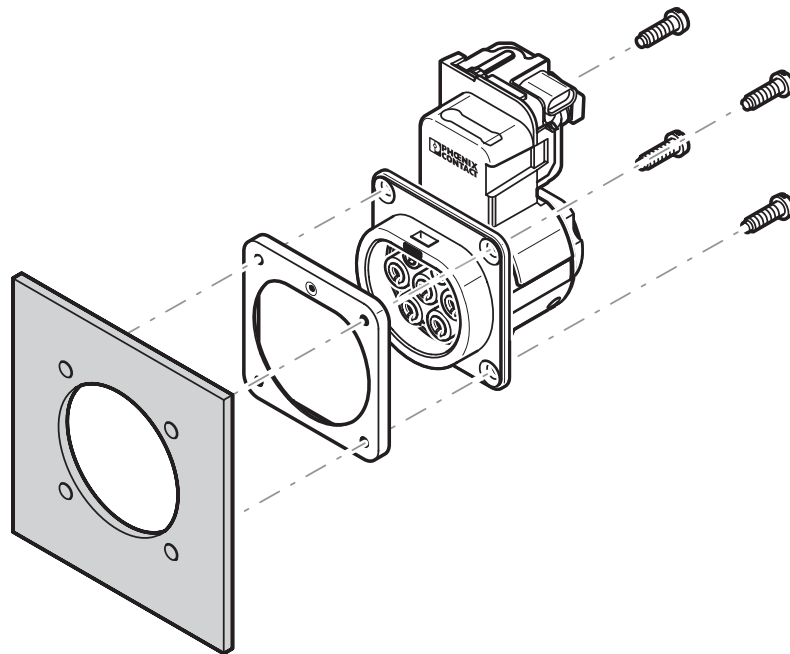
Pin assignment of infrastructure charging socket

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Schematic diagram



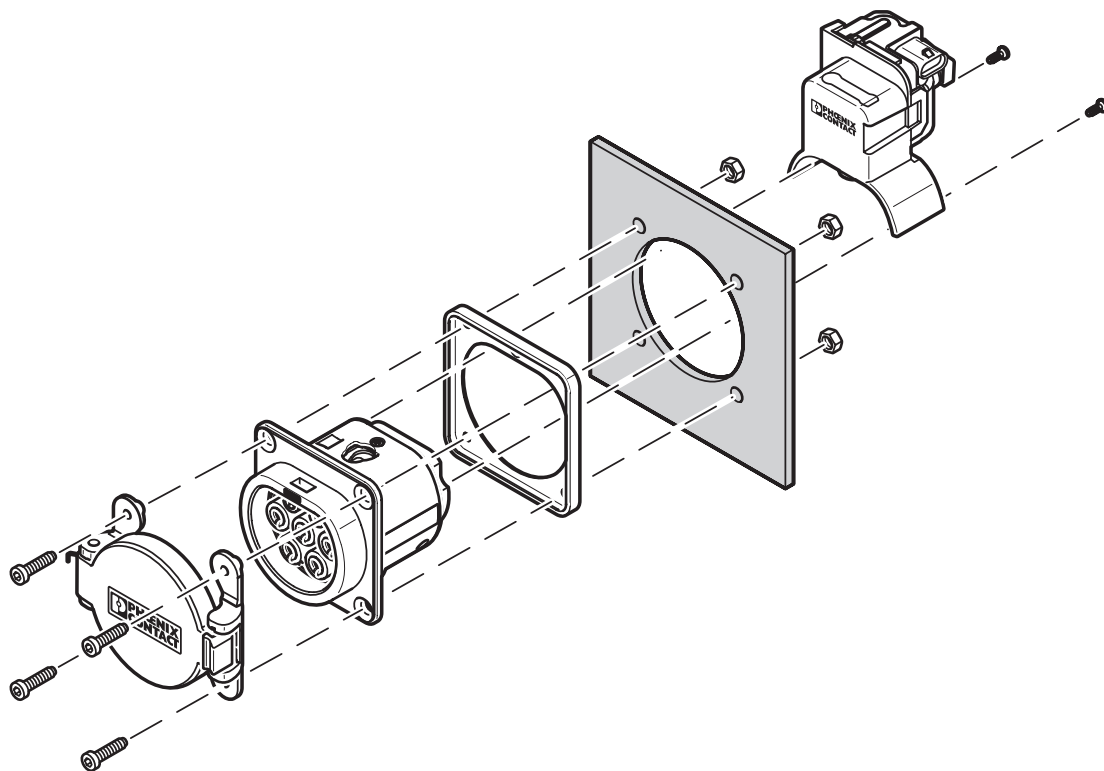
Rear mounting with locking actuator

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Schematic diagram



Front mounting with rear protective cover screw connection

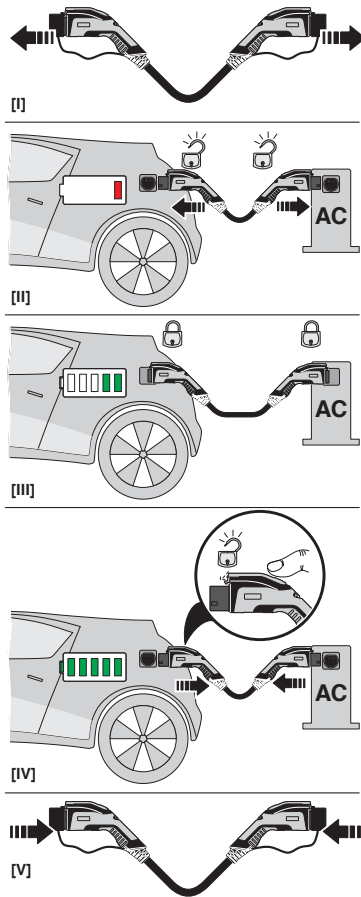
Front mounting is only possible when the locking actuator is removed. The screw connection for a protective cover from the accessories range (EV-GBSC...) only supports rear mounting.

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## Schematic diagram



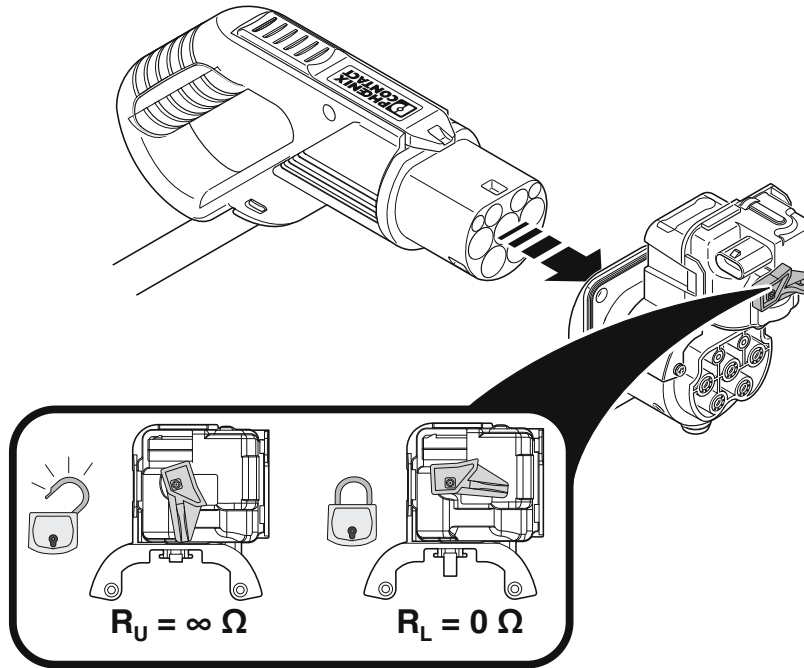
Operating instructions

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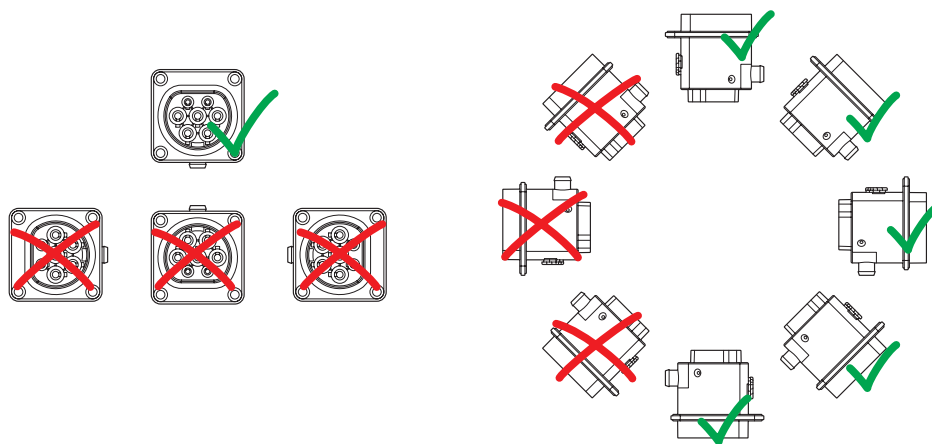
<https://www.phoenixcontact.com/us/products/1039245>

Schematic diagram



## Detection of the Infrastructure Plug

Schematic diagram



## Installation positions

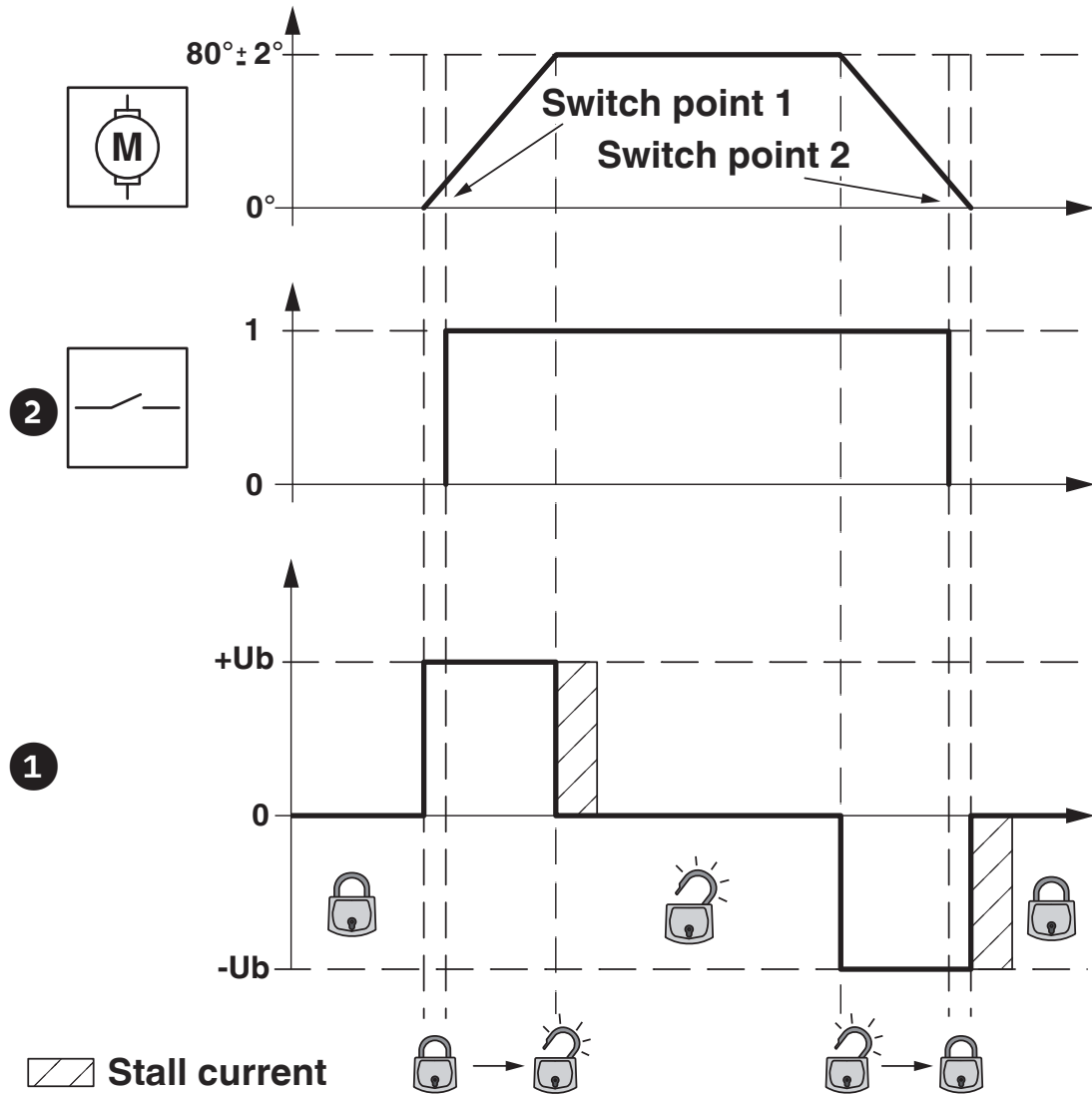
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Diagram

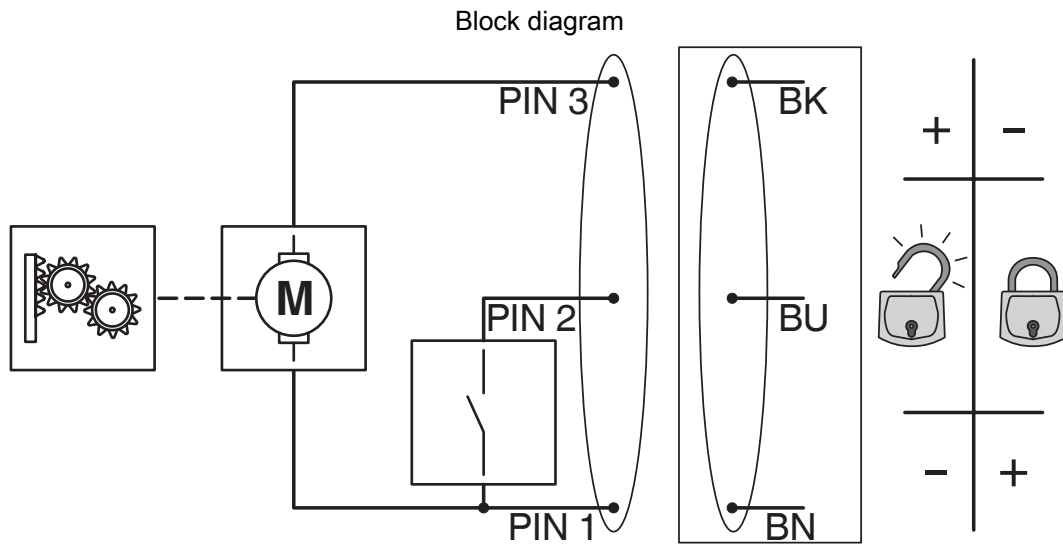


Locking states of the locking actuator

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Block diagram of the locking actuator

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## Classifications

### ECLASS

ECLASS-13.0	27144706
ECLASS-15.0	27144706

### ETIM

ETIM 10.0	EC002898
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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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