

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



1627347

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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            |

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



1627347

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

## Technical data

### Notes

|         |                                                  |
|---------|--------------------------------------------------|
| General | With temperature measurement via Pt 1000 sensors |
|---------|--------------------------------------------------|

### Product properties

|                     |                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------|
| Product type        | Infrastructure charging socket                                                                                |
| Product family      | CHARX connect                                                                                                 |
| Application         | for charging electric vehicles with alternating current (AC)<br>compatible with infrastructure charging plugs |
| 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 (Leistungskontakte)

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

#### Pin assignment (Signalkontakte)

|               |            |
|---------------|------------|
| Number        | 2 (CP, CC) |
| Rated voltage | 30 V AC    |
| Rated current | 2 A        |

#### Locking actuator

|                                          |                                     |
|------------------------------------------|-------------------------------------|
| Locking actuator                         | 12 V, 4-pos.<br>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                              |

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



1627347

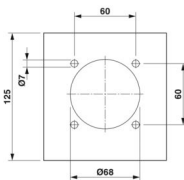
<https://www.phoenixcontact.com/us/products/1627347>

|                                     |                         |
|-------------------------------------|-------------------------|
| 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> |

## 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)                          |

## Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Max. wall thickness | > 57.00 mm (Rear panel mounting)                                                     |
| Bore dimensions     | 60 mm x 60 mm                                                                        |

## Installation dimensions

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Maximum required installation depth | < 5.00 mm (Rear panel mounting) |
|-------------------------------------|---------------------------------|

## Cable/line

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Cable length    | 0.7 m (AC cables)<br>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

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



1627347

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

## 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 |
|-----------------------|-------------------|

## 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)                                                       |

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

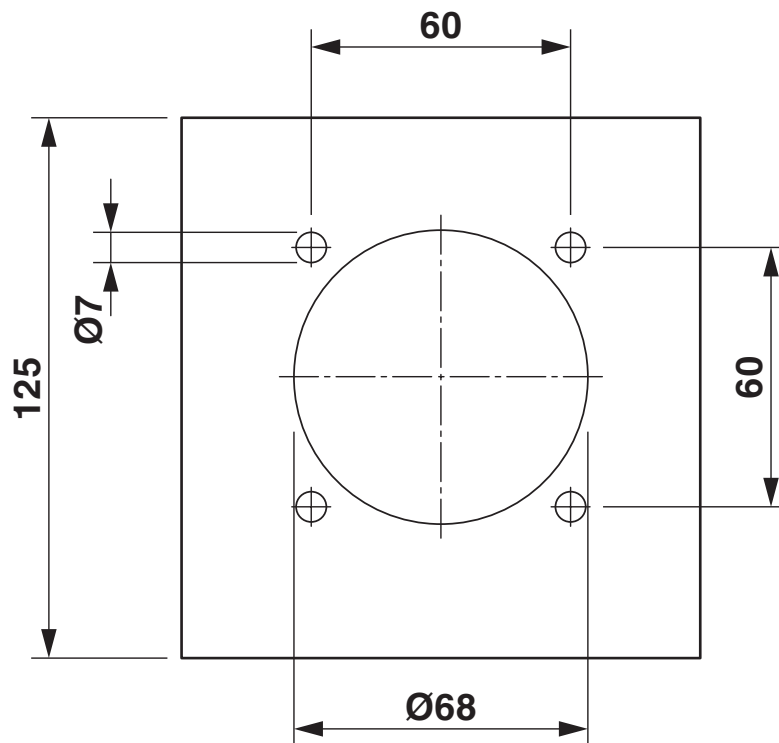


1627347

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

## Drawings

Dimensional drawing



Hole image

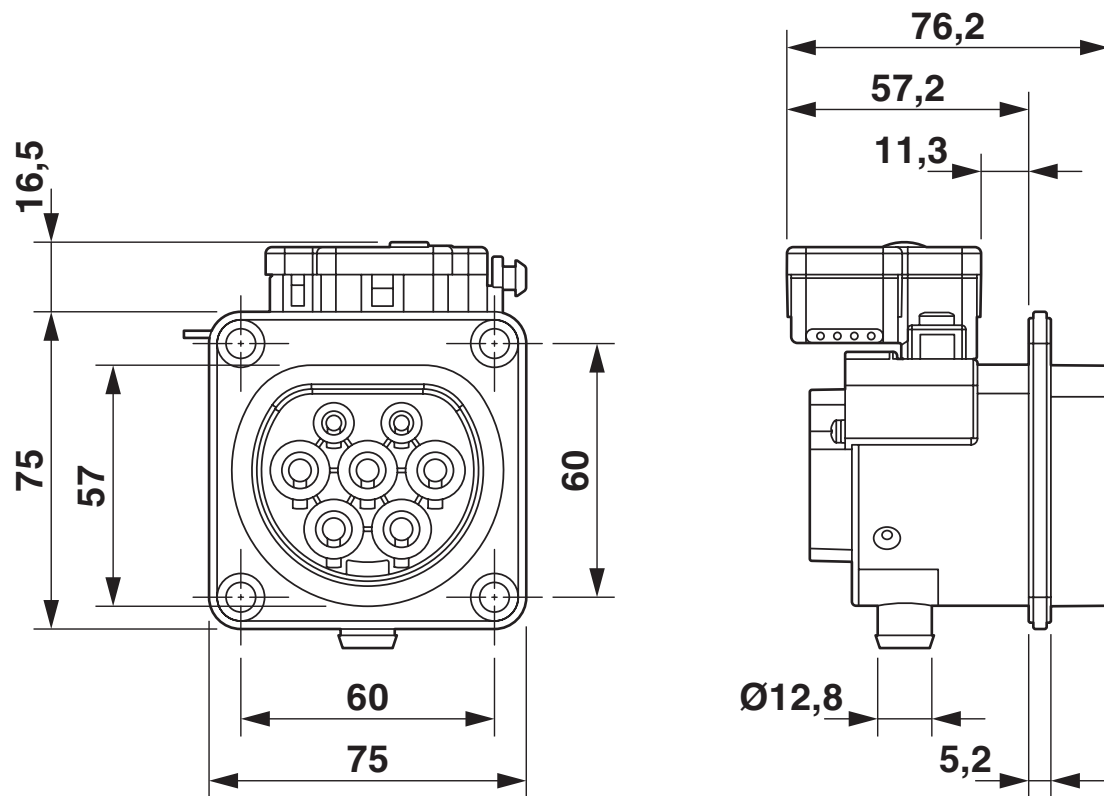
# EV-GBM3SE12-1AC32A-0,7M6,0E10T - Infrastructure charging socket



1627347

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

Dimensional drawing



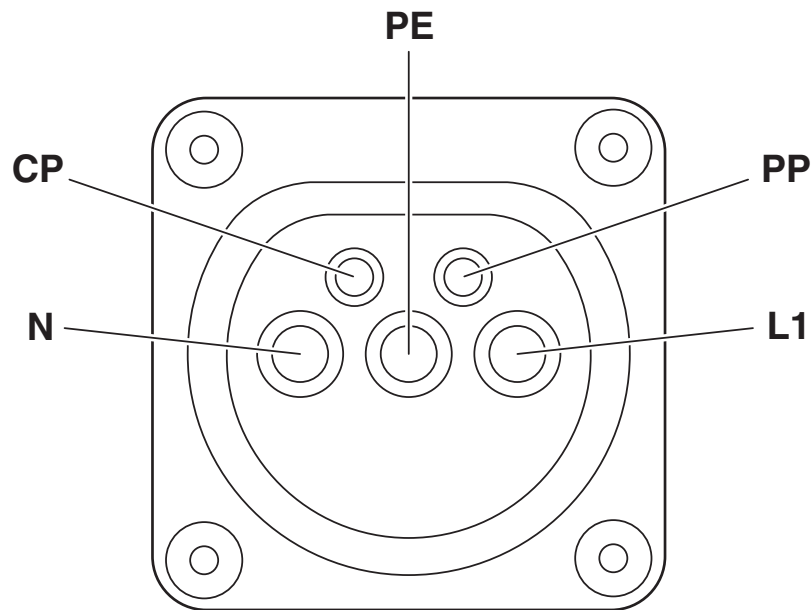
Dimensional drawing

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

1627347

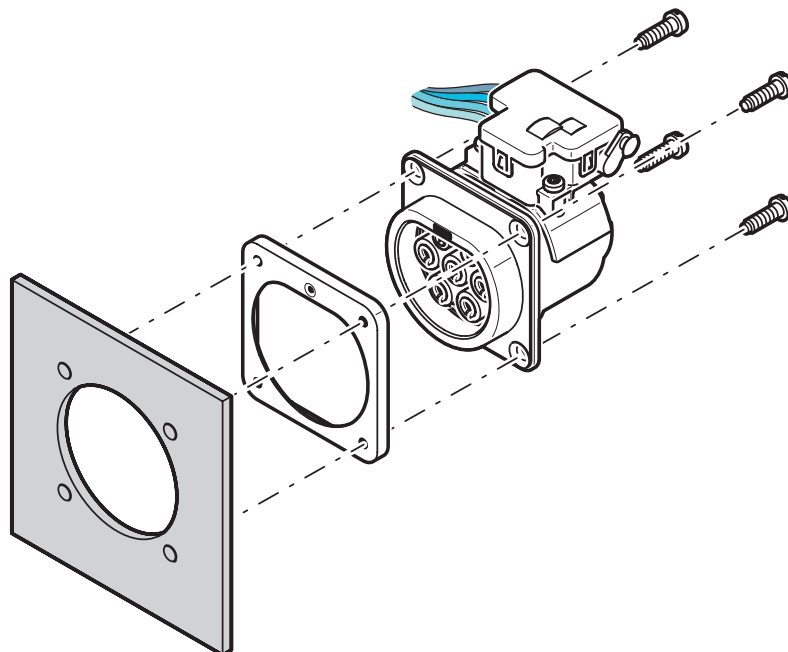
<https://www.phoenixcontact.com/us/products/1627347>

Connection diagram



Pin assignment of infrastructure charging socket

Schematic diagram



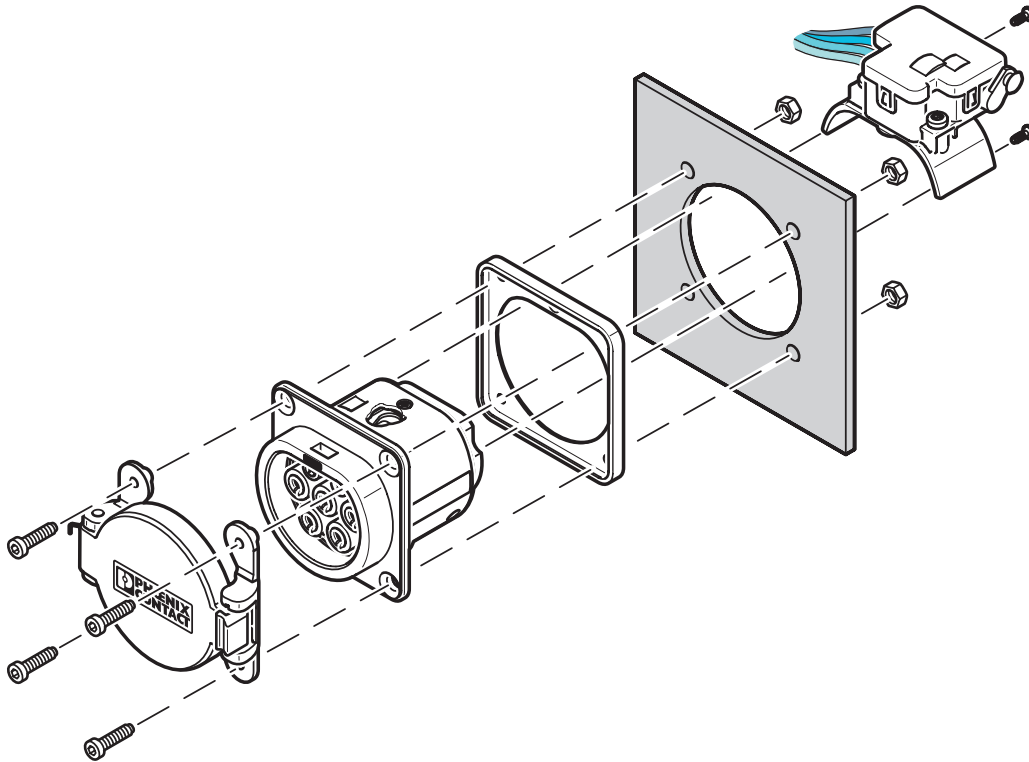
Rear mounting with locking actuator

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

1627347

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

Schematic diagram



Front mounting with rear protective cover screw connection

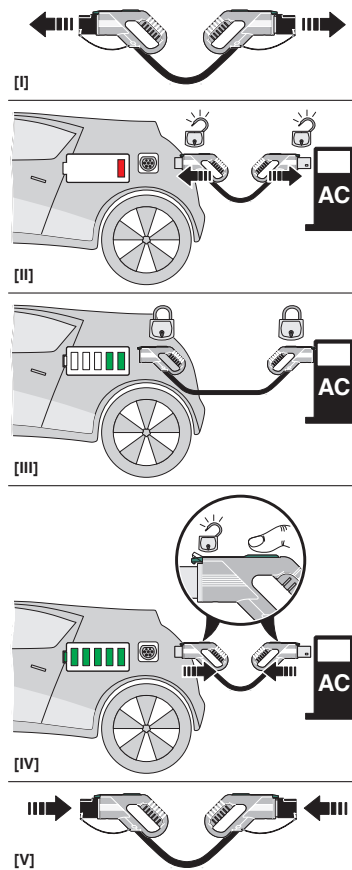
Front mounting is only possible when the locking actuator is removed. The screw connection for a protective cover from the accessories range (EV-GBSC...) only supports rear mounting.

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

1627347

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

## Schematic diagram

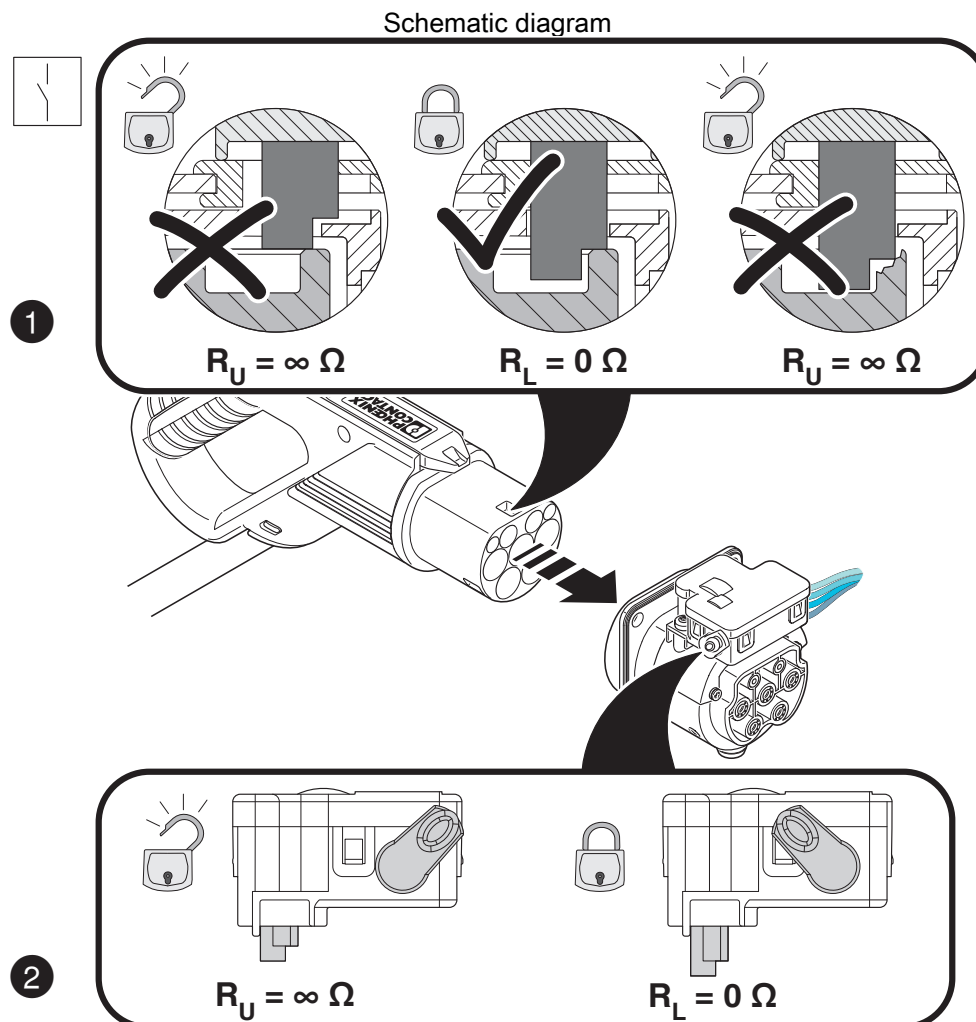


Operating instructions

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

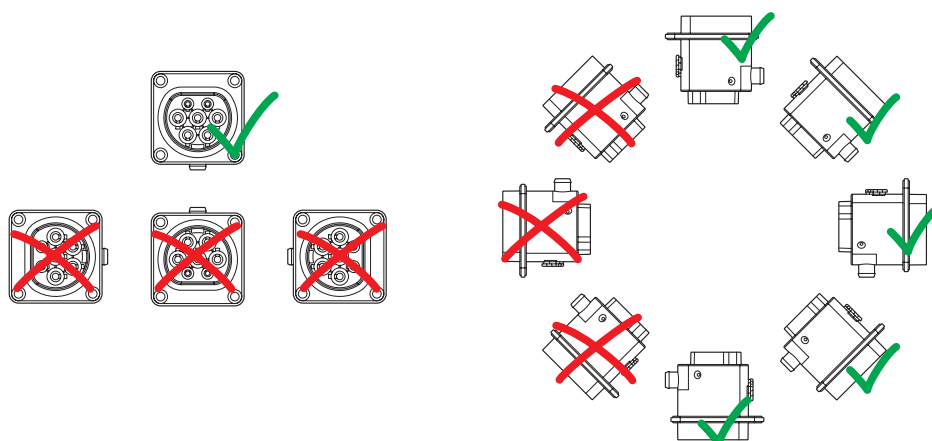
1627347

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



Detection of the Infrastructure Plug

Schematic diagram



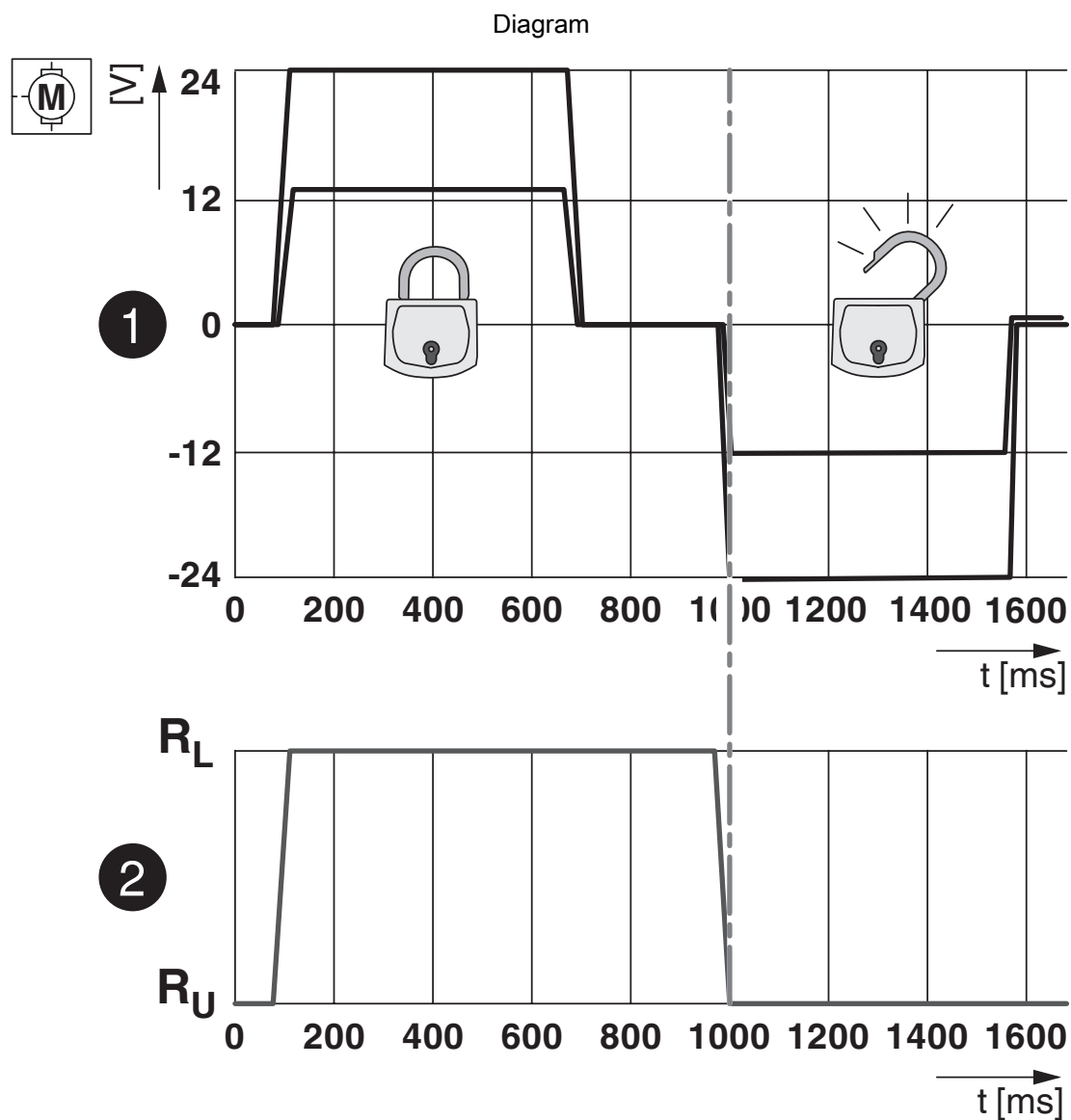
Installation positions

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



1627347

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



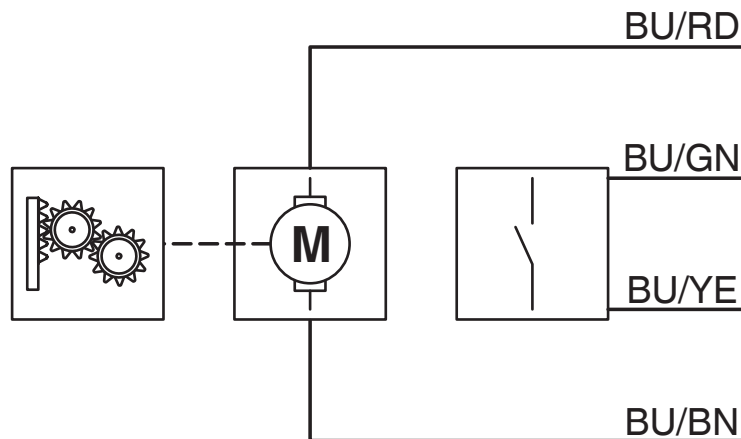
Locking states of the locking actuator

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

1627347

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

Block diagram



Block diagram of the locking actuator

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



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

## 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%                                                                                                                                                                                                        |

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)