

## Socket Outlet - EV-GBM3SE12-1AC32A-0.7M6.0E10 - 1408171

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Infrastructure Socket Outlet for charging electric vehicles with alternating current (AC), compatible with Infrastructure Plugs, GB/T, GB/T 20234.2-2015, 32 A / 250 V (AC), 12 V Locking actuator, Single wires, length: 0.7 m, Rear panel mounting, Rear protective cover screw connection

### Product Description


Infrastructure Socket Outlet 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
- ✓ Certified in accordance with IATF 16949:2016 and ISO 9001:2015
- ✓ Material data available in the IMDS (International Material Data System of the automotive industry)
- ✓ Manual emergency release of the locking actuator
- ✓ Integrated interlock during charging



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 856027
GTIN	4046356856027
Weight per Piece (excluding packing)	475.000 g
Custom tariff number	85444290
Country of origin	China

### Technical data

#### Product definition

Product type	Infrastructure Socket Outlet for charging electric vehicles with alternating current (AC), compatible with Infrastructure Plugs
Type	Rear protective cover screw connection
Standards/regulations	GB/T 20234.2-2015
Charging standard	GB/T

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## Technical data

### Product definition

Charging mode	Mode 3, Case B
Note on the connection method	Crimp connection, cannot be disconnected

### Dimensions

Height	96 mm
Width	75 mm
Depth	76.2 mm
Bore dimensions	60 mm x 60 mm
Conductor length	0.7 m (AC cables)
	0.5 m (Locking actuator cables)
Cable structure	3x 6.0 mm <sup>2</sup> + 2x 0.5 mm <sup>2</sup>
Type of conductor	Single wires

### Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. altitude	5000 m (above sea level)
Degree of protection	IP55 (plugged in)
	IP55 (with protective cover, see accessories)

### Electrical properties

Maximum charging power	7 kW
Type of charging current	AC single-phase
Number of phases	1
Number of power contacts	3 (L1, N, PE)
Rated current of power contacts	32 A
Rated voltage for power contacts	250 V AC
Number of signal contacts	2 (CP, CC)
Rated current for signal contacts	2 A
Rated voltage for signal contacts	30 V AC
Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected

### Mechanical properties

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

### Mounting

Possible mounting positions	Rear panel mounting
Restrictions to mounting position	Only 0 to 90 degree frontal inclination possible, see figure
Mounting position of the locking actuator	Top center
Required installation depth	< 5 mm (Rear panel mounting)

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## Technical data

### Mounting

Max. wall thickness	> 57 mm (Rear panel mounting)
Mounting hole diameter	7.00 mm (ø)

### Design

Design line	Standard
Housing color	black
Customer variations	On request

### Material

Material	Plastic
Material surface of contacts	Ag

### Locking

Locking type	Locking in the inserted state with a locking mechanism
Locking voltage	12 V
Locking detection	available
Mechanical emergency release	available

### Locking actuator

Typical power supply at the motor	12 V
Possible power supply range at the motor	9 V ... 16 V
Typical motor current for locking	0.2 A
Max. reverse current of the motor	1 A
Max. dwell time with reverse current	1000 ms
Recommended adaptation time	600 ms
Pause time after entry or exit path	3 s
Maximum voltage for locking detection	30 V
Service life	> 10000 load cycles
Ambient temperature (operation)	-30 °C ... 50 °C
Length of cable	0.5 m

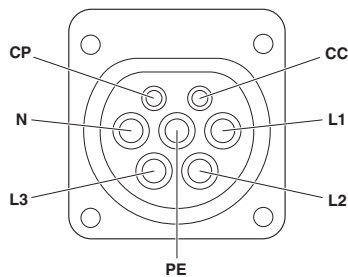
### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

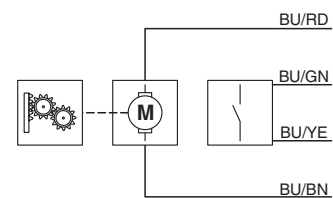
## Drawings

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### Connection diagram



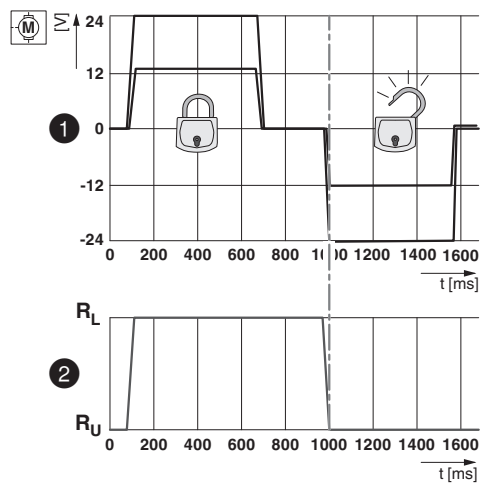
### Block diagram



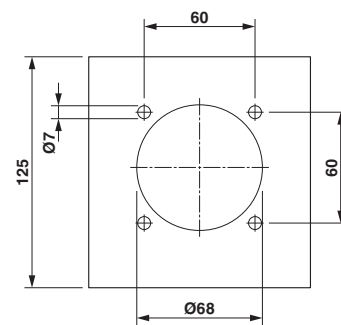
### Block diagram of the locking actuator

### Pin assignment of Infrastructure Socket Outlet

### Diagram



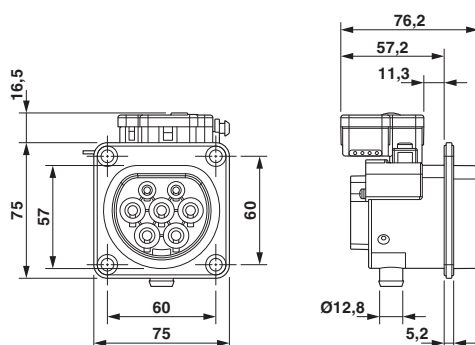
## Dimensional drawing



Hole image

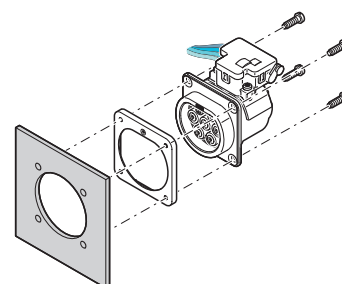
### Locking states of the locking actuator

## Dimensional drawing



## Dimensional drawing

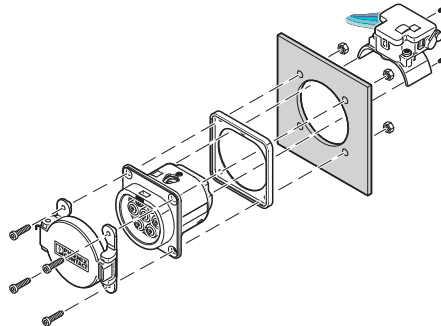
### Schematic diagram



### Rear mounting with locking actuator

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Schematic diagram

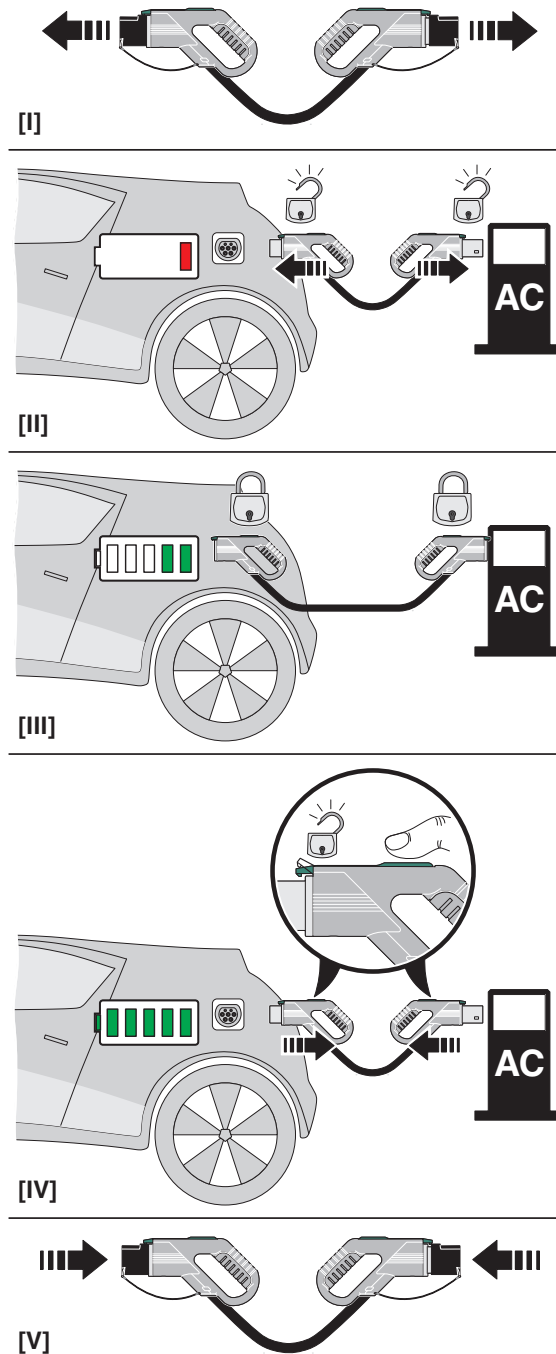


Front mounting with rear protective cover screw connection

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.

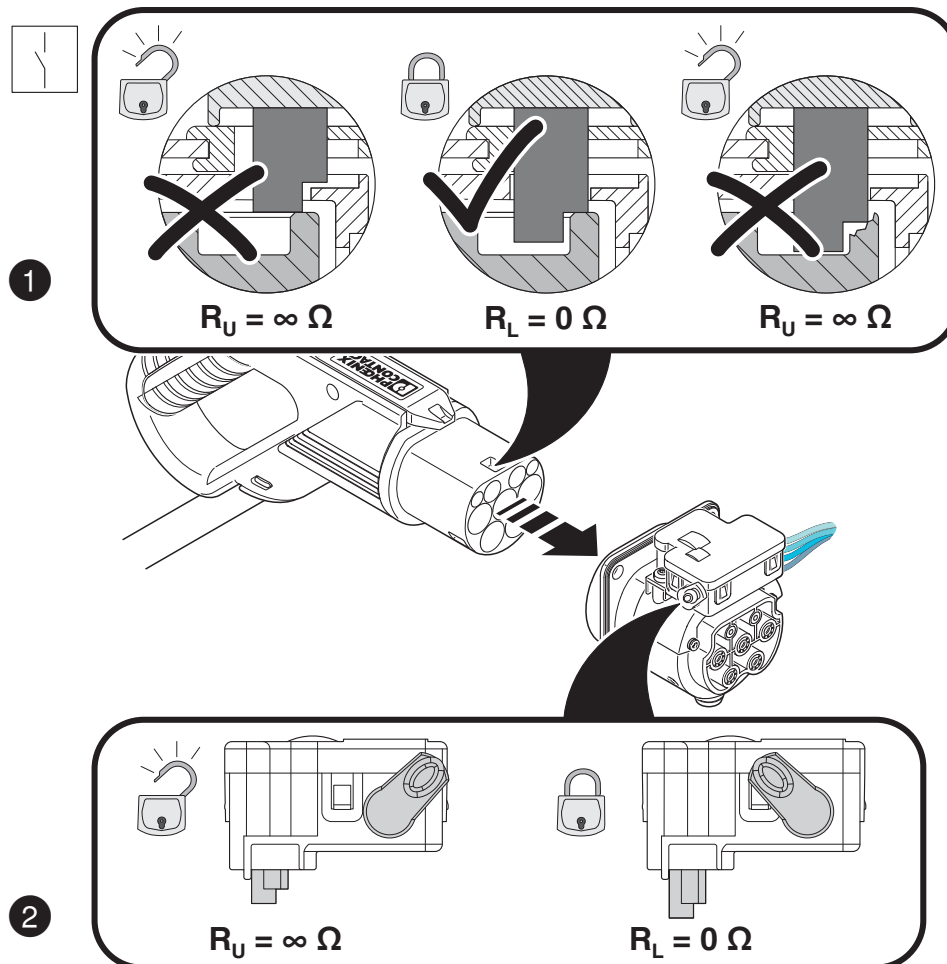
## Socket Outlet - EV-GBM3SE12-1AC32A-0.7M6.0E10 - 1408171

Schematic diagram



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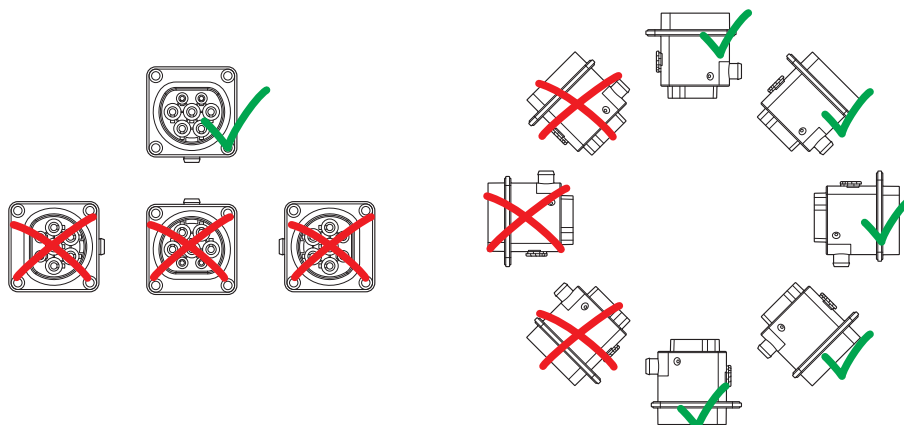
Schematic diagram



Detection of the Infrastructure Plug

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Schematic diagram



Installation positions

### Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27143400
eCl@ss 6.0	27143400
eCl@ss 7.0	27449001
eCl@ss 8.0	27449001
eCl@ss 9.0	27144706

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC001321
ETIM 6.0	EC002898

UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522

### Accessories

Accessories

AC charging controller



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### Accessories

AC charging controller - EV-CC-AC1-M3-CBC-SER-HS - 1622452



The EV-CC-AC1-M3-CBC-SER-HS charging controller with housing for DIN rail mounting is used for charging electric vehicles at 3-phase AC networks according to IEC 61851-1, Mode 3. All charging functions, comprehensive configuration settings as well as a locking controller are already integrated.

AC charging controller - EV-CC-AC1-M3-CBC-SER-PCB - 1622453



The EV-CC-AC1-M3-CBC-SER-PCB charging controller as PCB is used for charging electric vehicles at 3-phase AC networks according to IEC 61851-1, Mode 3. All charging functions, comprehensive configuration settings as well as a locking controller are already integrated.

AC charging controller - EV-CC-AC1-M3-CBC-SER-PCB-XC-25 - 1627743



The EV-CC-AC1-M3-CBC-SER-PCB charging controller as PCB is used for charging electric vehicles at 3-phase AC networks according to IEC 61851-1, Mode 3. All charging functions, comprehensive configuration settings as well as a locking controller are already integrated.

AC charging controller - EV-CC-AC1-M3-CBC-SER-PCB-MSTB - 1627353



The EV-CC-AC1-M3-CBC-SER-PCB-MSTB charging controller as a PCB for charging electric vehicles according to IEC 61851-1, Mode 3, Case B (Socket Outlet) or C (Vehicle Connector). Connection via PCB connector on header.

### Locking actuator

Locking - EV-T2M3S-E-LOCK12V - 1624129



Locking actuator with 12 V power supply for Infrastructure Socket Outlets and Vehicle Inlets, Type 2, GB/T, IEC 61851-1, 12 V Locking actuator, length: 0.5 m, Can be positioned flexibly

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### Accessories

Locking - EV-T2M3S-E-LOCK24V - 1622317



Locking actuator with 24 V power supply for Infrastructure Socket Outlets and Vehicle Inlets, Type 2, GB/T, IEC 61851-1, 24 V Locking actuator, length: 0.5 m, Can be positioned flexibly

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### Protective cover for Socket Outlet

Protective covers - EV-GBSCO - 1623415



Self-opening protective cover for infrastructure socket outlet, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, on the side of the Infrastructure Socket Outlet, Rear protective cover screw connection

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Protective covers - EV-GBSC - 1623416



Self-closing protective cover for infrastructure socket outlet, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, on the right or left of the Infrastructure Socket Outlet, Rear protective cover screw connection

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Protective covers - EV-GBSC-D6,5MM - 1623888



Self-closing protective cover for infrastructure socket outlet, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, on the right or left of the Infrastructure Socket Outlet, Rear protective cover screw connection

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### Seal

Seal - EV-T2M3S-DRAINAGE-GASKET - 1621668

Seal for discharge nozzle below the Infrastructure Socket Outlet if there is no drainage tube , Type 2, IEC 62196-2

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Seal - EV-T2M3S-E-LOCK-GASKET - 1621465

Seal for the mounting surface of the locking actuator above the Infrastructure Socket Outlet when there is no locking actuator present, Type 2, IEC 62196-2

