

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



1624387

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

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

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Technical data

Product properties

Product type	Infrastructure charging socket
Product family	CHARX connect
Application	for charging electric vehicles with alternating current (AC) compatible with infrastructure charging plugs
Charging standard	GB/T
Charging mode	Mode 3, Case B

Electrical properties

Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected
Type of charging current	AC single-phase
Charging power	8 kW
Charging current	32 A

Power contact

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

Signal contact

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

Locking actuator

Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	top center

Locking actuator

Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	top center
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 ²

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

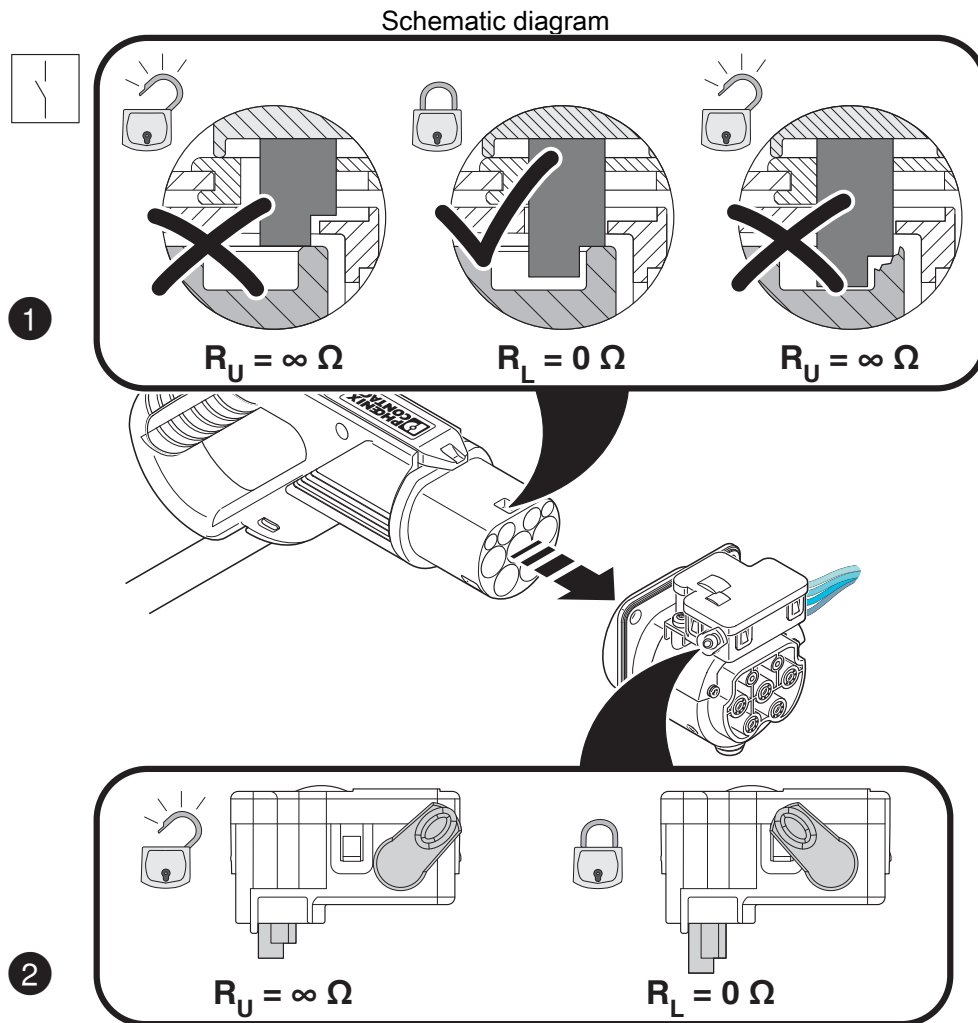
Mounting type Infrastructure charging socket	Rear panel mounting (0 to 90 degree frontal inclination possible)
Mounting type Protective cover	rear (available separately)
Mounting hole diameter	7.00 mm (ø)

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Drawings



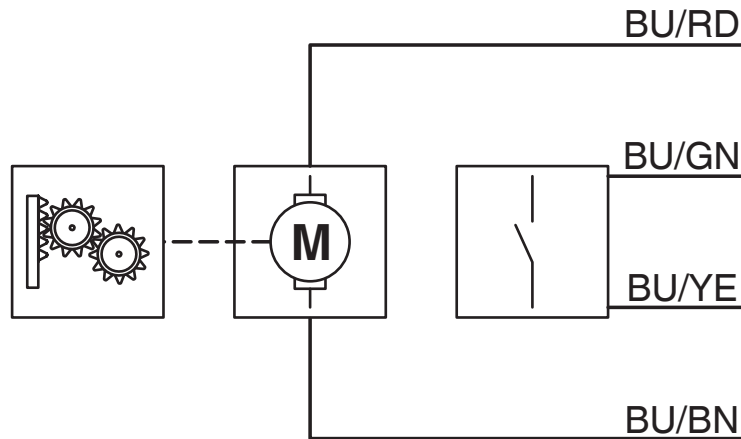
Detection of the Infrastructure Plug

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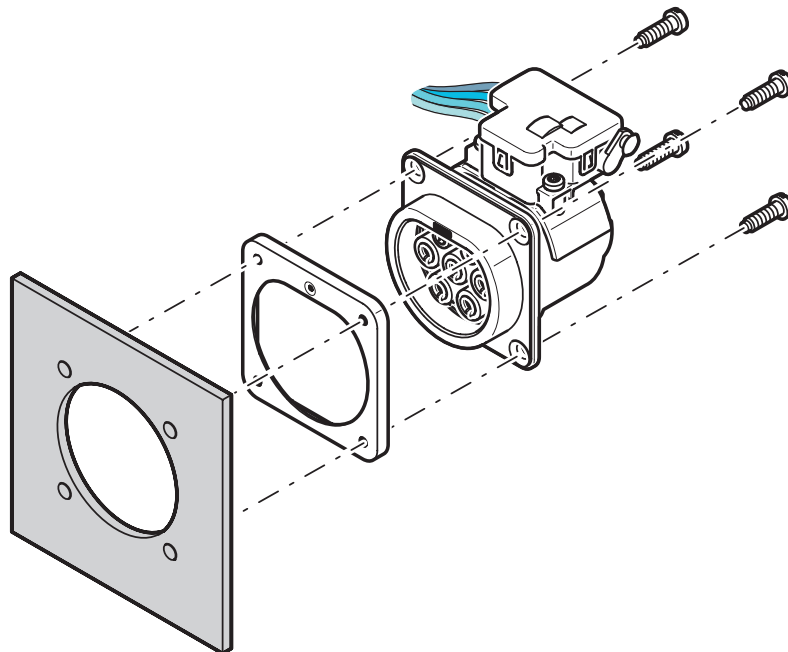
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Block diagram



Block diagram of the locking actuator

Schematic diagram



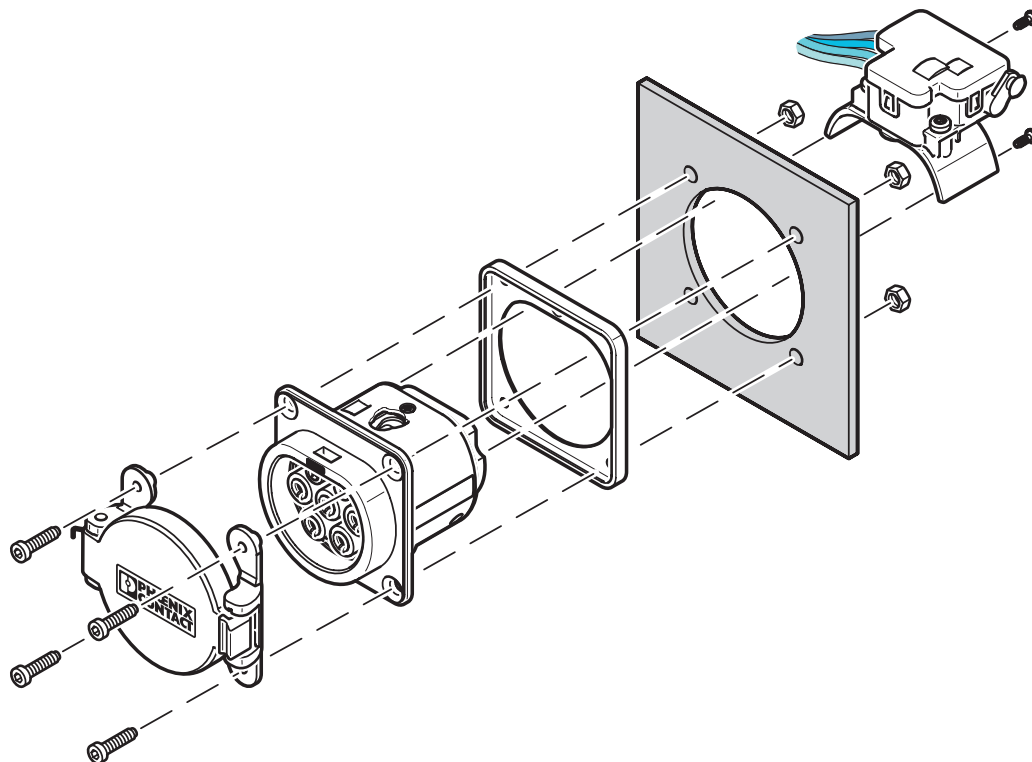
Rear mounting with locking actuator

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Schematic diagram



Front mounting with rear protective cover screw connection

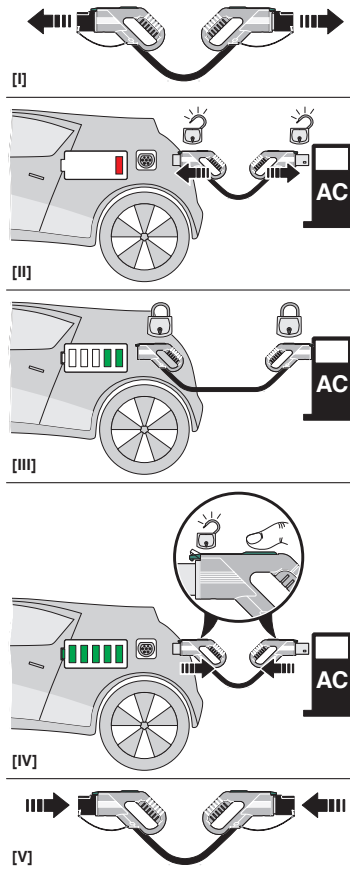
Front mounting is only possible when the locking actuator is removed. The screw connection for a protective cover from the accessories range (EV-GBSC...) only supports rear mounting.

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Schematic diagram



Operating instructions

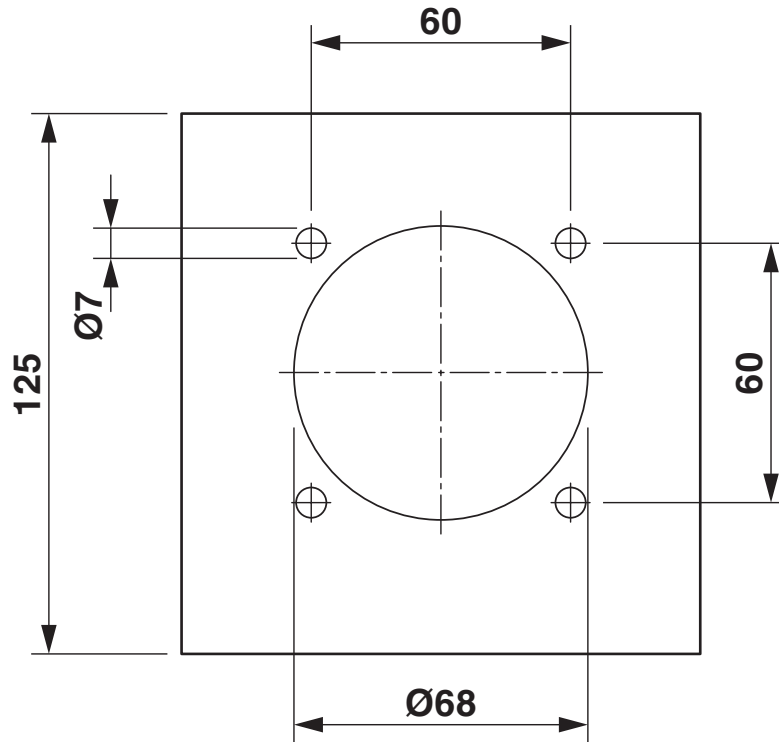
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Dimensional drawing



Hole image

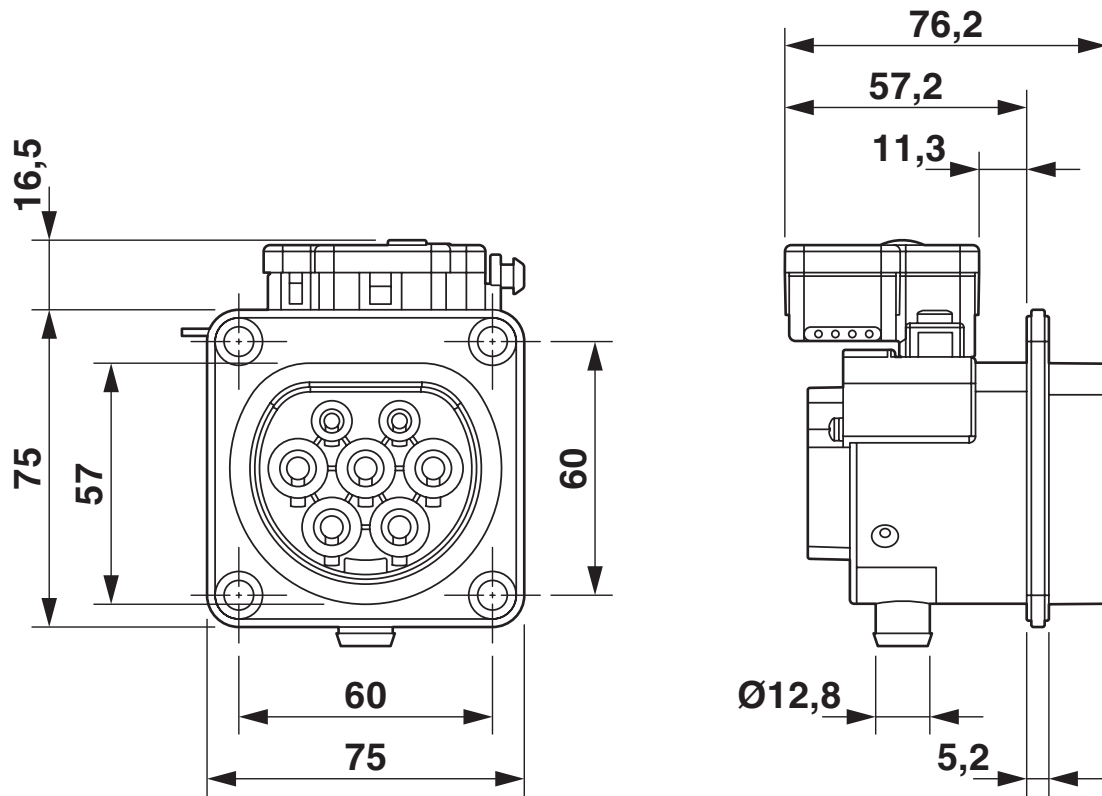
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Dimensional drawing



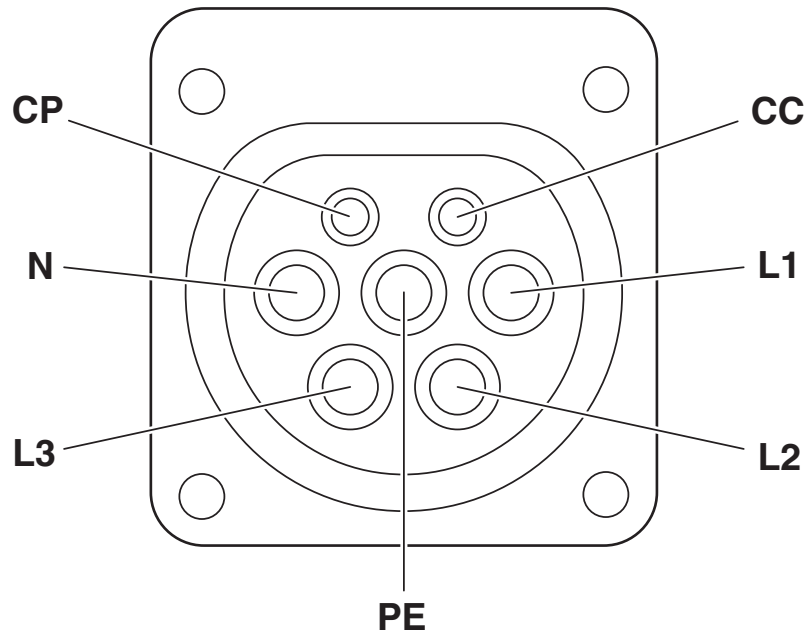
Dimensional drawing

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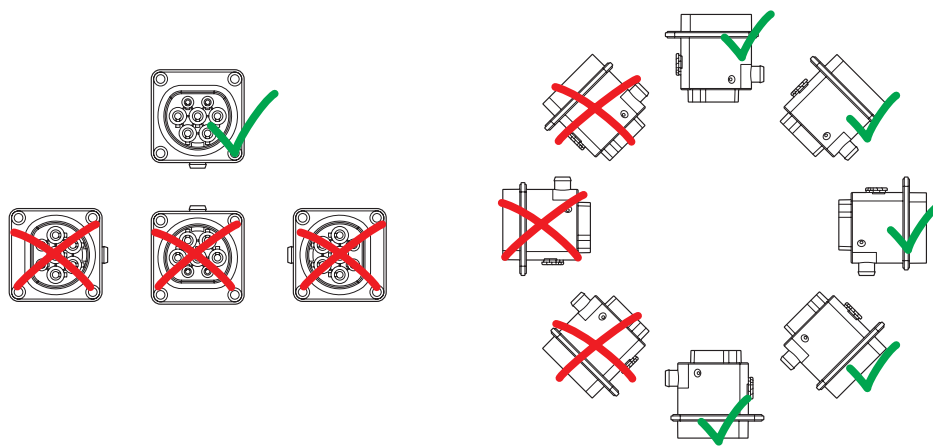
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Connection diagram



Pin assignment of infrastructure charging socket

Schematic diagram

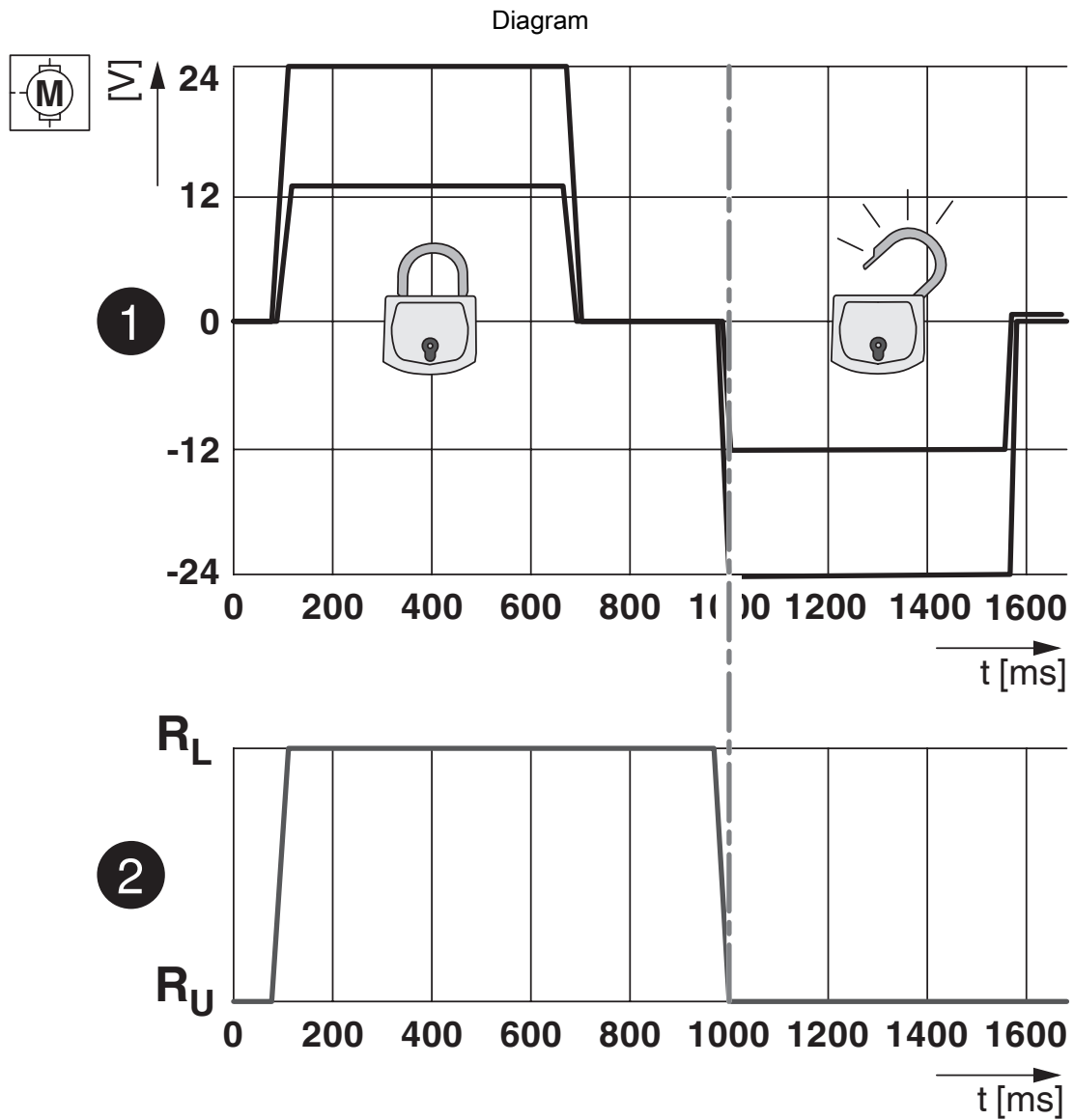


Installation positions

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Locking states 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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Accessories

EV-GBSCO - Protective cover

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CHARX connect basic, Protective cover, circular, Accessories, with self-opening mechanism, for attaching to infrastructure charging sockets, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, housing: black, Adhered "PHOENIX CONTACT" sticker

EV-GBSC - Protective cover

1623416

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CHARX connect basic, Protective cover, circular, Accessories, with self-locking mechanism, for attaching to infrastructure charging sockets, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, housing: black, Adhered "PHOENIX CONTACT" sticker

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EV-GBSC-D6,5MM - Protective cover

1623888

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CHARX connect basic, Protective cover, circular, Accessories, with self-locking mechanism, for attaching to infrastructure charging sockets, GB/T, Type 2, GB/T 20234.2, IEC 62196-2, Front mounting, housing: black, Adhered "PHOENIX CONTACT" sticker

EV-T2M3S-E-LOCK12V - Locking

1624129

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CHARX connect modular, Locking, Accessories, for attaching to infrastructure charging sockets, Type 2, GB/T, IEC 61851-1, Single wires, length: 0.5 m, locking actuator: 12 V, 4-pos.

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EV-T2M3S-E-LOCK24V - Locking

1622317

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CHARX connect modular, Locking, Accessories, with single-core wires, without holder, for locking infrastructure charging sockets when plug is inserted, Type 2, GB/T, IEC 61851-1, Single wires, length: 0.5 m, locking actuator: 24 V, 4-pos.

EV-T2M3S-DRAINAGE-GASKET - Seal

1621668

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CHARX connect basic, Seal, For the discharge nozzle below the infrastructure charging socket if there is no drainage tube present, Type 2, IEC 62196-2

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EV-T2M3S-E-LOCK-GASKET - Seal

1621465

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CHARX connect basic, Seal, For the mounting surface of the locking actuator above the infrastructure charging socket when there is no locking actuator present, Type 2, IEC 62196-2



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

1622452

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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.

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

1622453

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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.

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

1627743

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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.

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

1627353

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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.

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