EV-GBM3SE12-3AC32A-0,7M6,0E10T - Infrastructure charging socket

1627558

https://www.phoenixcontact.com/us/products/1627558

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CHARX connect, GB/T, Infrastructure charging socket, 32 A , 440 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	1627558
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBADF
GTIN	4055626327884
Weight per piece (including packing)	650 g
Weight per piece (excluding packing)	650 g
Country of origin	CN

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)
	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 (3-phase))

Type of charging current	AC 3-phase
Charging current	32 A AC (3-phase)
Charging power	26.6 kW (3-phase)
Charging power rating	22 kW (32 A, 3-phase)
Rated voltage	480 V

Pin assignment (Leistungskontakte)

Number	5 (L1, L2, L3, N, PE)
Rated voltage	440 V AC
Rated current	32 A

Pin assignment (Signalkontakte)

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

Locking actuator

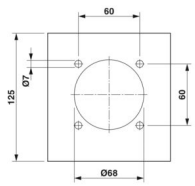
Locking actuator	12 V, 4-pos.
	Top center position
Possible power supply range at the motor	9 V ... 16 V
Maximum voltage for locking detection	30 V
Typical motor current for locking	0.2 A
Reverse current of the motor	max. 1 A
Max. dwell time with reverse current	1000 ms

Recommended adaptation time	600 ms
Pause time after entry or exit path	3 s
Service life insertion cycles	> 10000 load cycles
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 mm²

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)
	0.5 m (Locking actuator cables)
Cable structure	5x 6.0 mm² + 2x 0.5 mm²

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

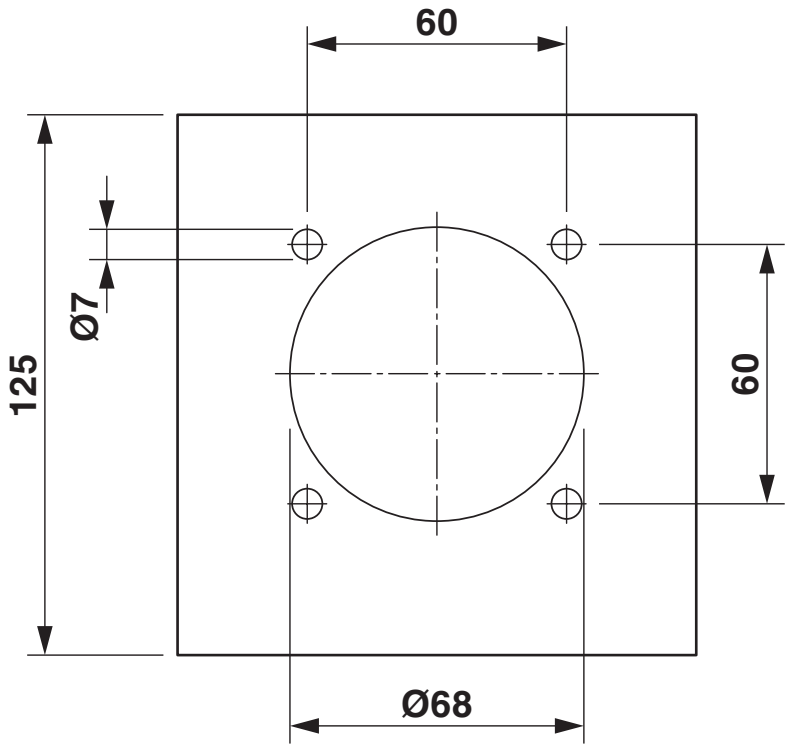
Standards/regulations	GB/T 20234.2-2015

Mounting

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

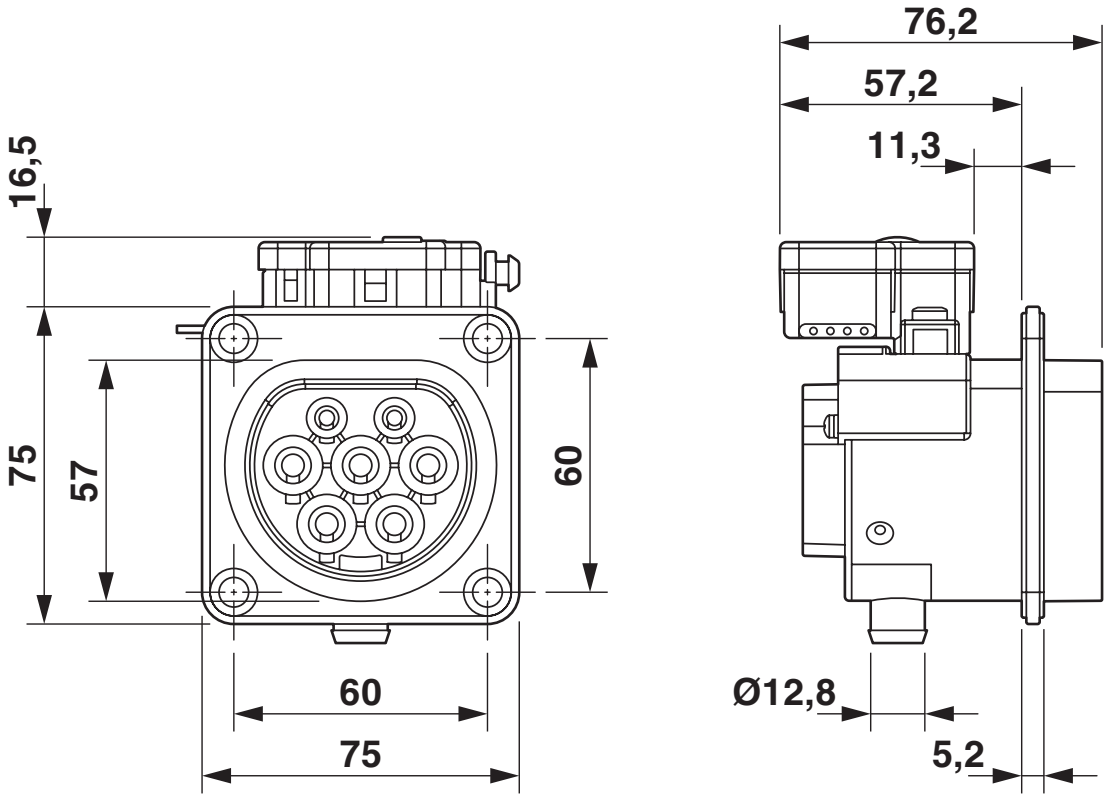
Drawings

Dimensional drawing



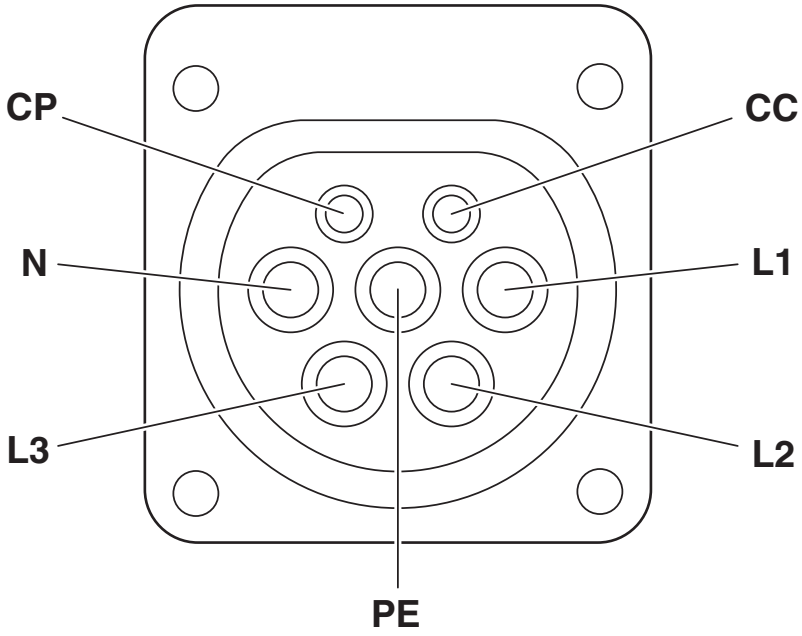
Hole image

Dimensional drawing



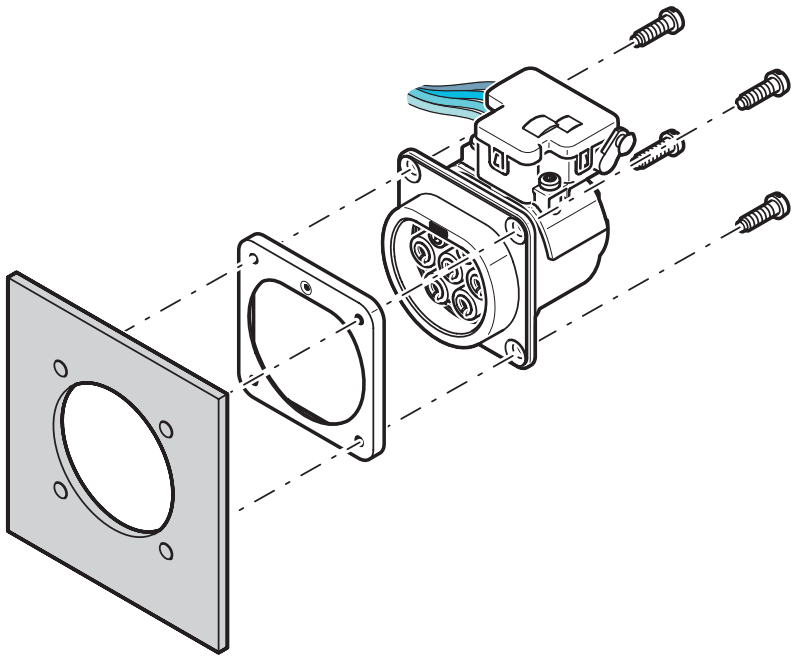
Dimensional drawing

Connection diagram



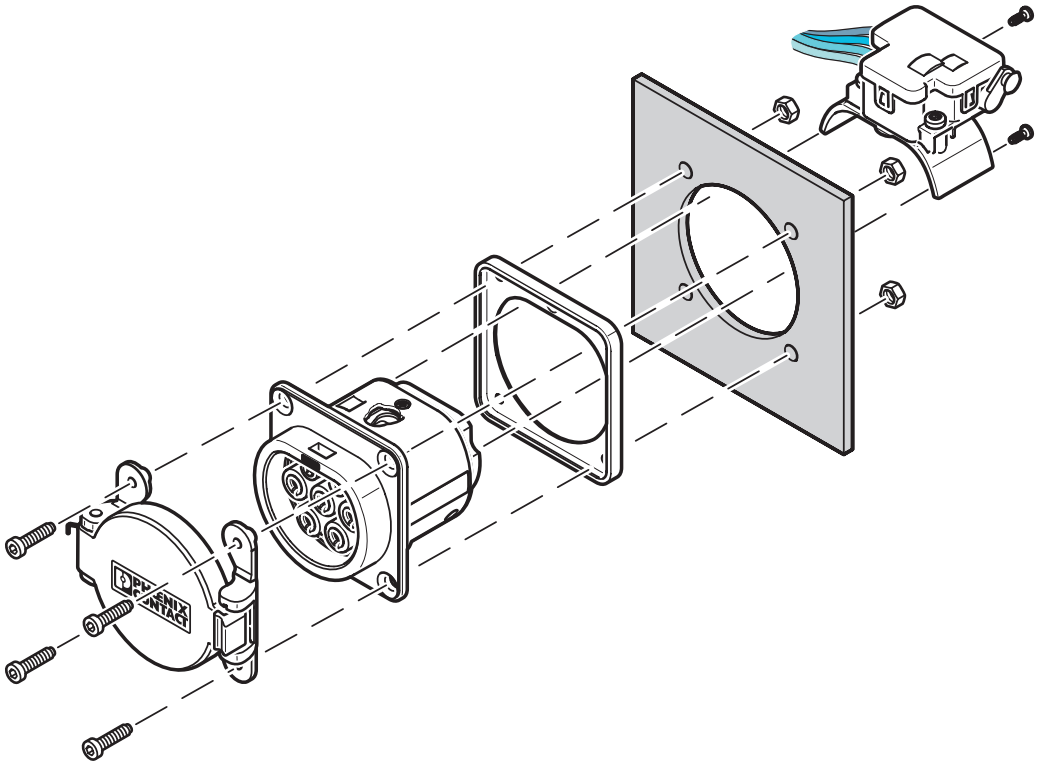
Pin assignment of infrastructure charging socket

Schematic diagram



Rear mounting with locking actuator

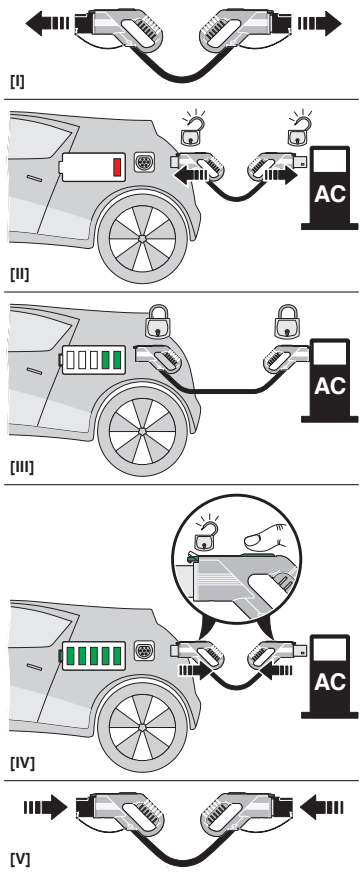
Schematic diagram



Front mounting with rear protective cover screw connection

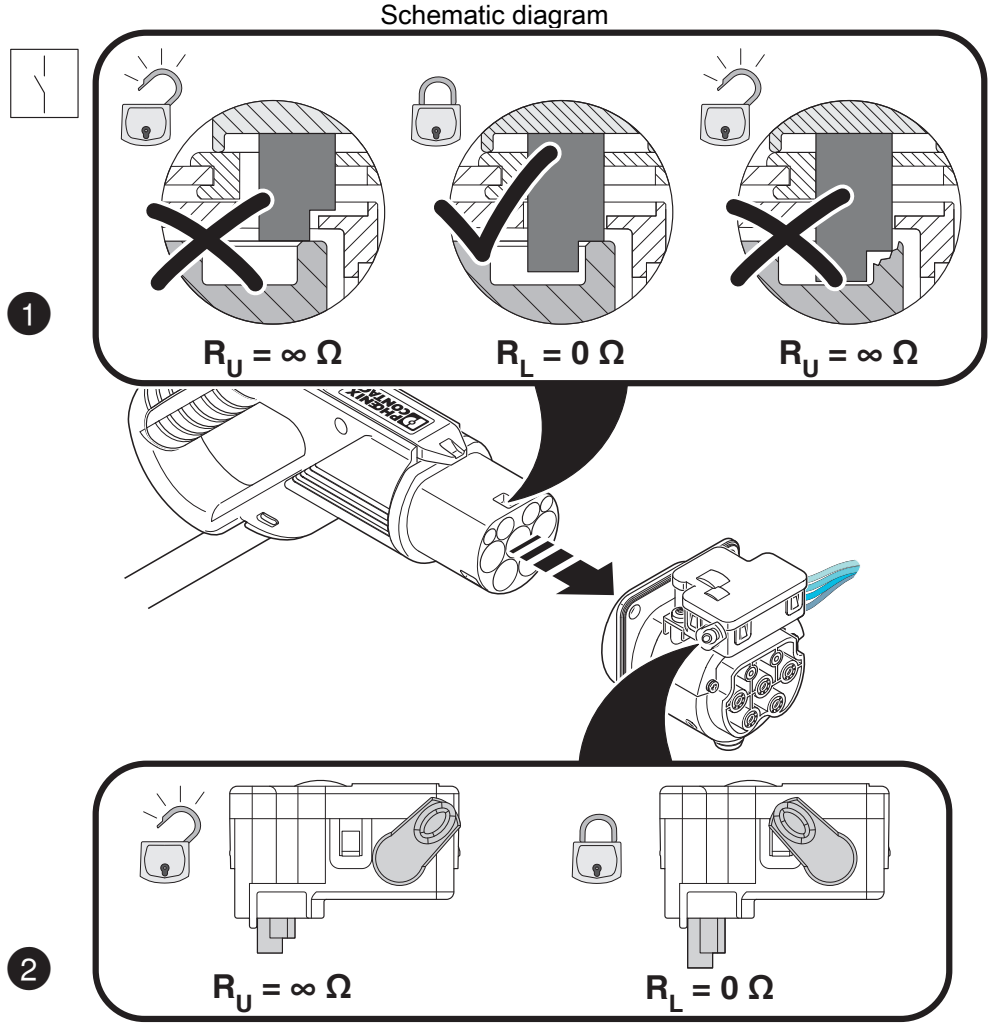
Front mounting is only possible when the locking actuator is removed. The screw connection for a protective cover from the accessories range (EV-GBSC...) only supports rear mounting.

Schematic diagram



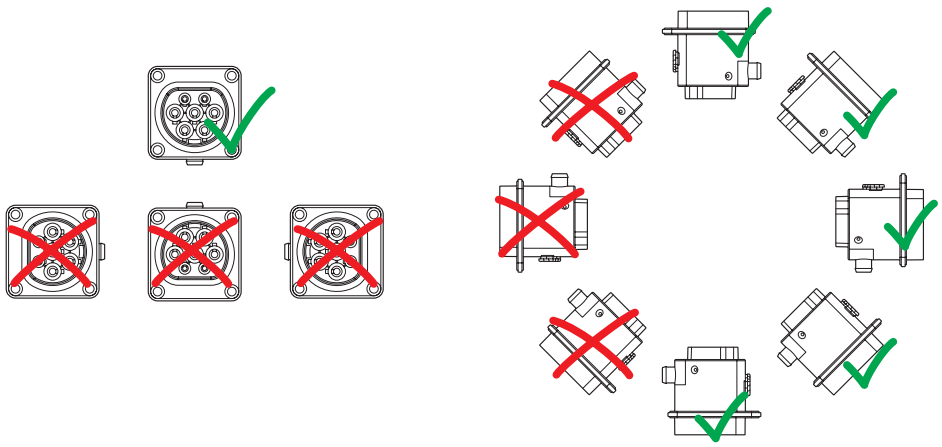
Operating instructions

Schematic diagram



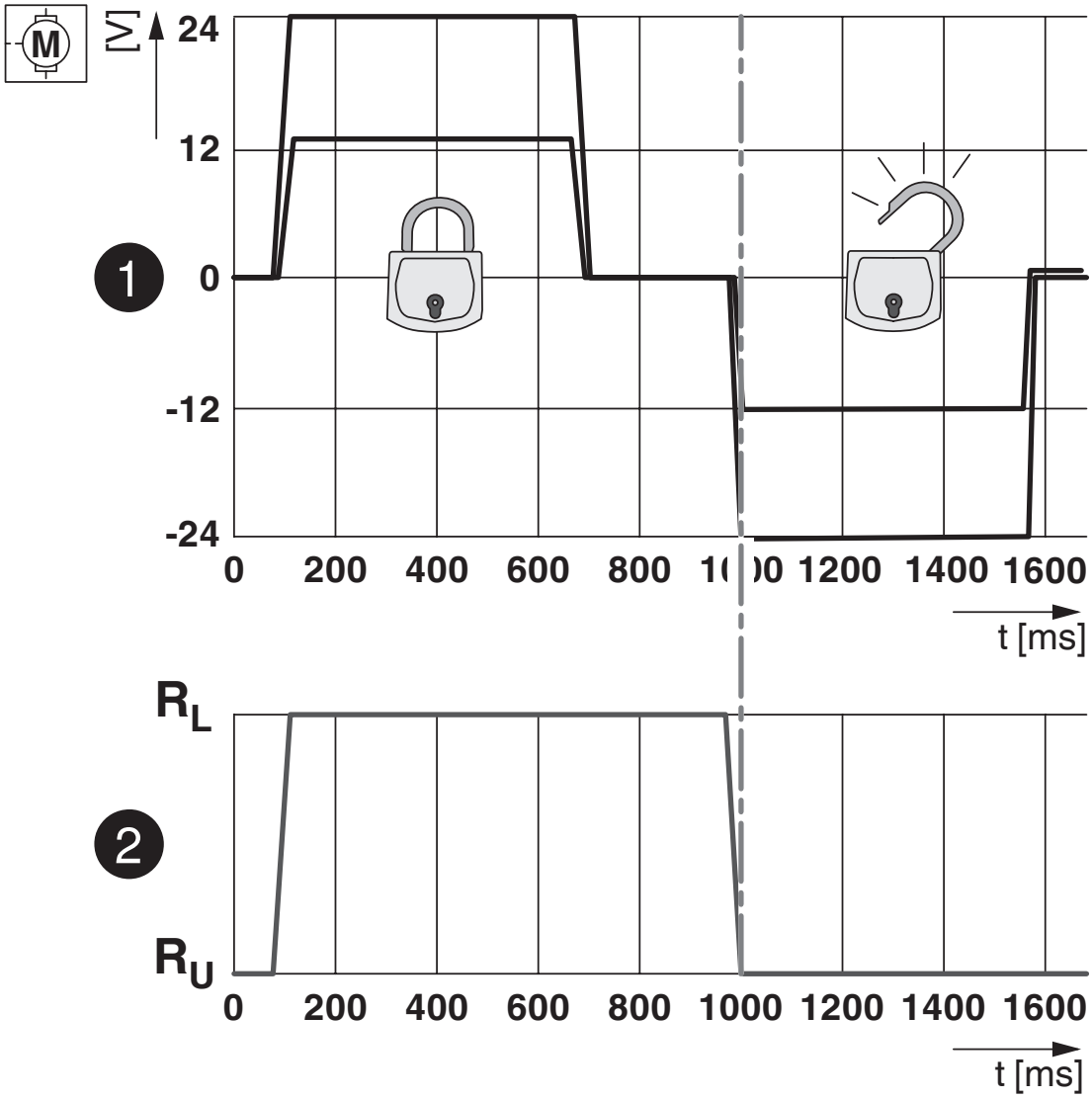
Detection of the Infrastructure Plug

Schematic diagram



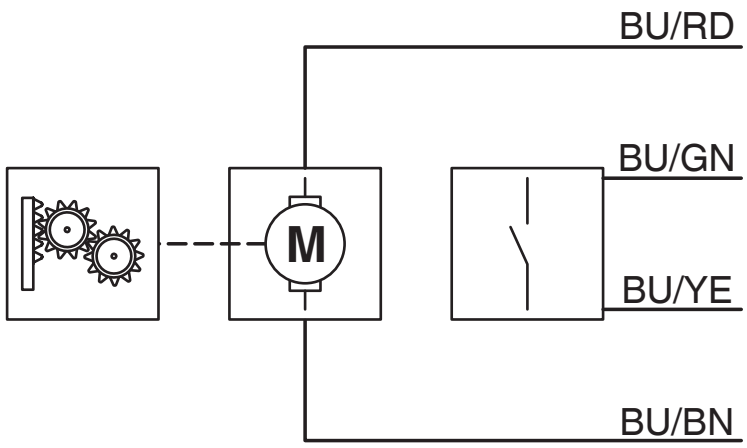
Installation positions

Diagram



Locking states of the locking actuator

Block diagram



Block diagram of the locking actuator

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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