

EV-T2M3SE12-3AC32A-1,0M6,0E10 - Infrastructure charging socket



1624043

<https://www.phoenixcontact.com/us/products/1624043>

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CHARX connect, Type 2, Infrastructure charging socket, 32 A , 480 V AC, Gen 1, length: 1 m, locking actuator: 12 V, 4-pos., Rear panel mounting, for charging electric vehicles (EV) with alternating current (AC), PHOENIX CONTACT logo, IEC 62196-2

Product description

Infrastructure charging socket for charging electric vehicles (EV) with alternating current (AC), compatible with type 2 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 | 1624043 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | EM01 |
| Product key | XWBADC |
| GTIN | 4055626228129 |
| Weight per piece (including packing) | 760.2 g |
| Weight per piece (excluding packing) | 760.2 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|---------------------|--------------------------------|
| Product type | Infrastructure charging socket |
| Product family | CHARX connect |
| Type | Gen 1 |
| Charging standard | Type 2 |
| Charging mode | Mode 3, Case B |
| Affixed logo | PHOENIX CONTACT logo |
| Customer variations | On request |

Electrical properties

| | |
|-------------------------------|--|
| Type of signal transmission | Pulse width modulation |
| Note on the connection method | Crimp connection, cannot be disconnected |

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 (Power contacts)

| | |
|---------------|-----------------------|
| Number | 5 (L1, L2, L3, N, PE) |
| Rated voltage | 480 V AC |
| Rated current | 32 A |

Pin assignment (Signal contacts)

| | |
|---------------|------------|
| Number | 2 (CP, PP) |
| 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 |

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| | |
|---------------------------------|-------------------------|
| Mechanical emergency release | available |
| Ambient temperature (operation) | -30 °C ... 50 °C |
| Cable length | 0.5 m |
| Cable structure | 4 x 0.5 mm ² |

Dimensions

Infrastructure charging socket

| | |
|--------|---------|
| Width | 75 mm |
| Height | 96 mm |
| Depth | 76.2 mm |

Bore dimensions

| | |
|--------|-------|
| Width | 60 mm |
| Height | 60 mm |

Cable/line

| | |
|-----------------|---|
| Cable length | 1 m (AC cables) |
| | 0.5 m (Locking actuator cables) |
| Cable structure | 5x 6.0 mm ² + 2x 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 | IEC 62196-2 |
|-----------------------|-------------|

Mounting

| | |
|--|--|
| Mounting type Infrastructure charging socket | Rear panel mounting (0 to 90 degree frontal inclination possible) |
| | Front mounting (only possible when the locking actuator is removed (see EV-T2M3SE...E00 versions)) |
| Mounting type Protective cover | rear (available separately) |
| Mounting hole diameter | 7.00 mm (ø) |

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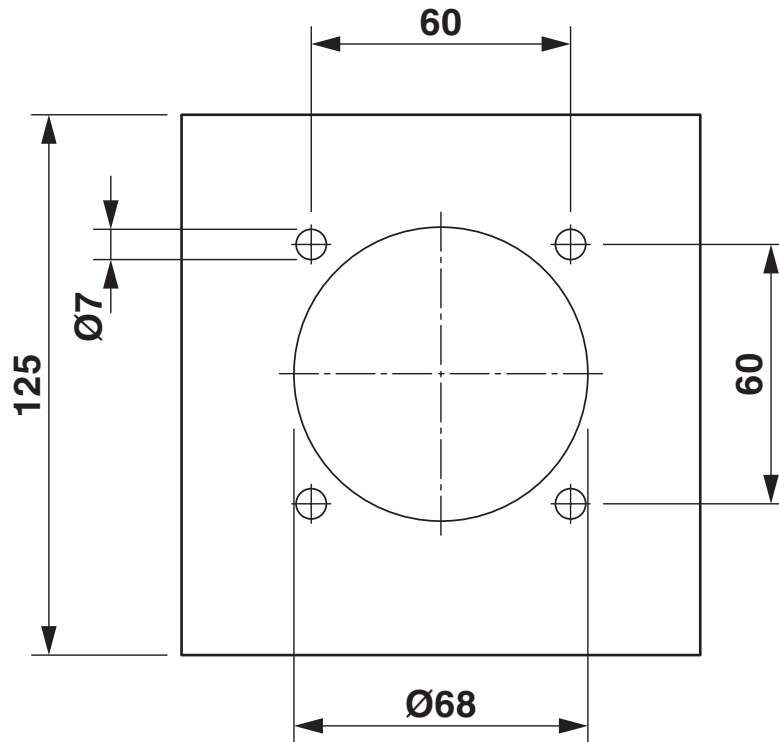


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Drawings

Dimensional drawing



Hole image

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Dimensional drawing



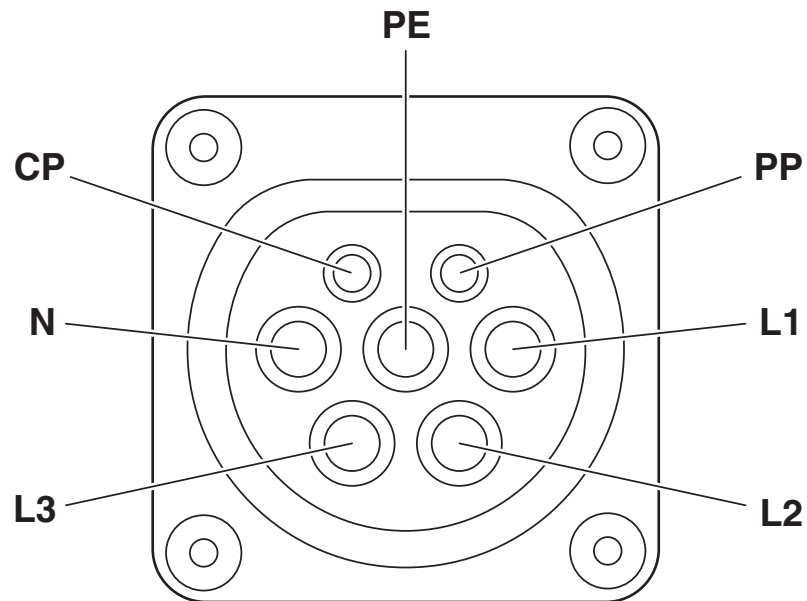
Dimensional drawing

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Connection diagram



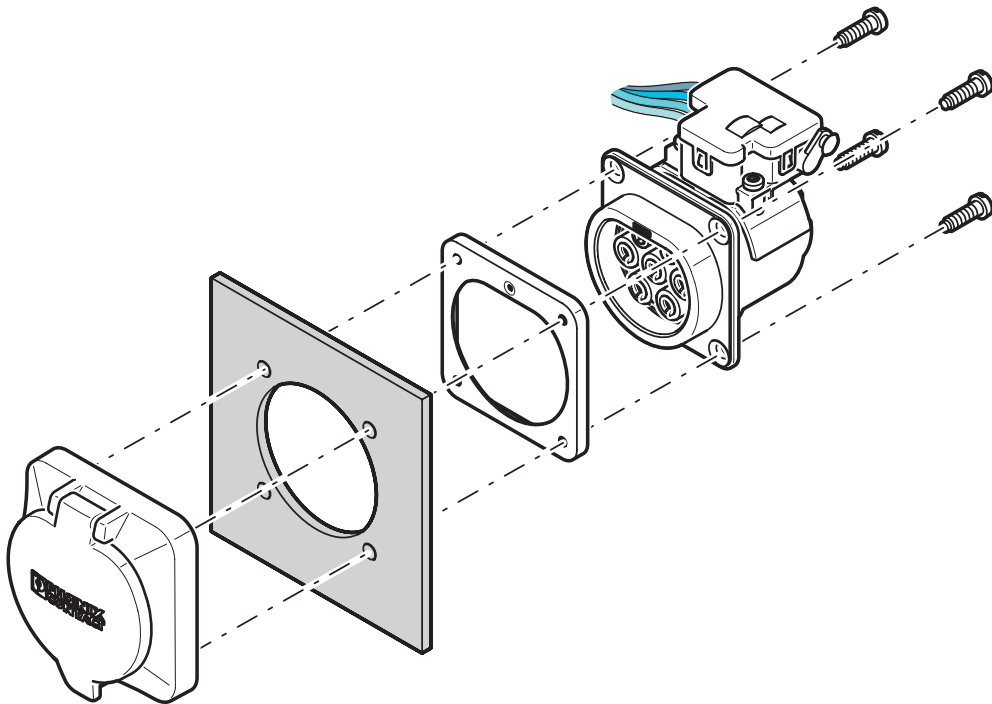
Pin assignment of infrastructure charging socket

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Schematic diagram



Rear mounting with rear protective cover screw connection

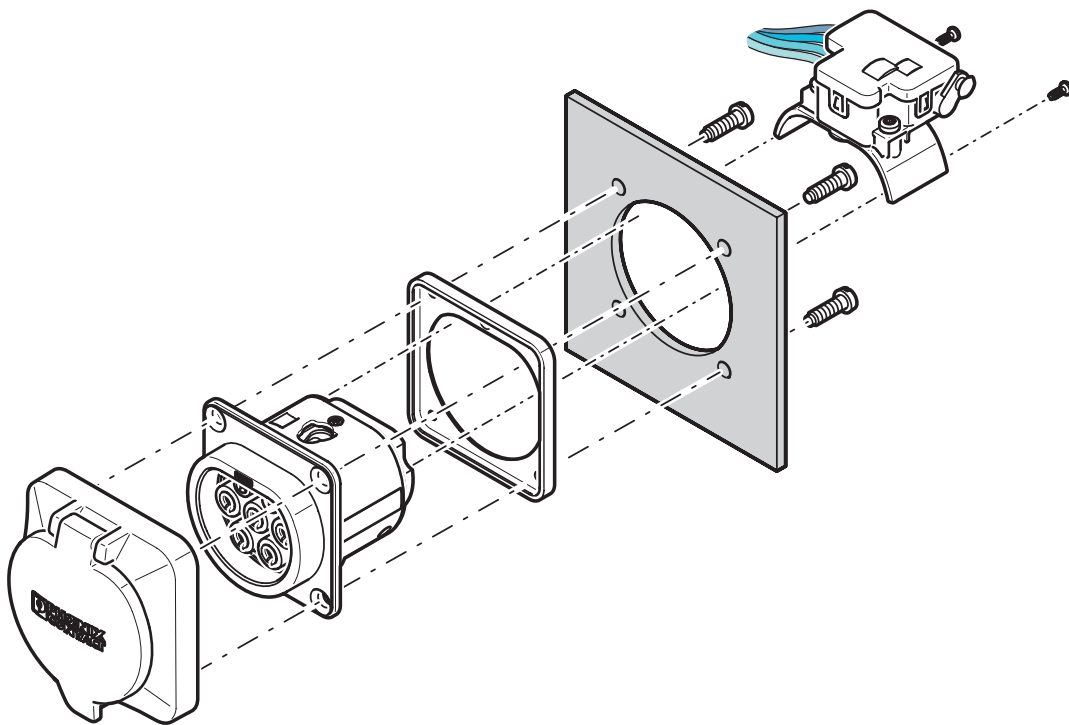
The screw connection for a protective cover from the accessories range (EV-T2SC) only supports rear mounting. The panel thickness must not exceed 5 mm. The sealing frame that is slid on from the rear must contact the housing panel flush with the flat side and must completely surround the infrastructure socket outlet.

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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. We recommend using an infrastructure socket outlet without pre-assembled locking actuator (EV-T2M3SE-...E0..., e.g., 1621729).

The screw connection for a protective cover from the accessories range (EV-T2SC) only supports rear mounting. The panel thickness must not exceed 10 mm. The sealing frame that is slid on from the front must contact the housing panel flush with the flat side and must completely surround the infrastructure socket outlet.

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Schematic diagram



Operating instructions

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Detection of the Infrastructure Plug

Schematic diagram



Installation positions

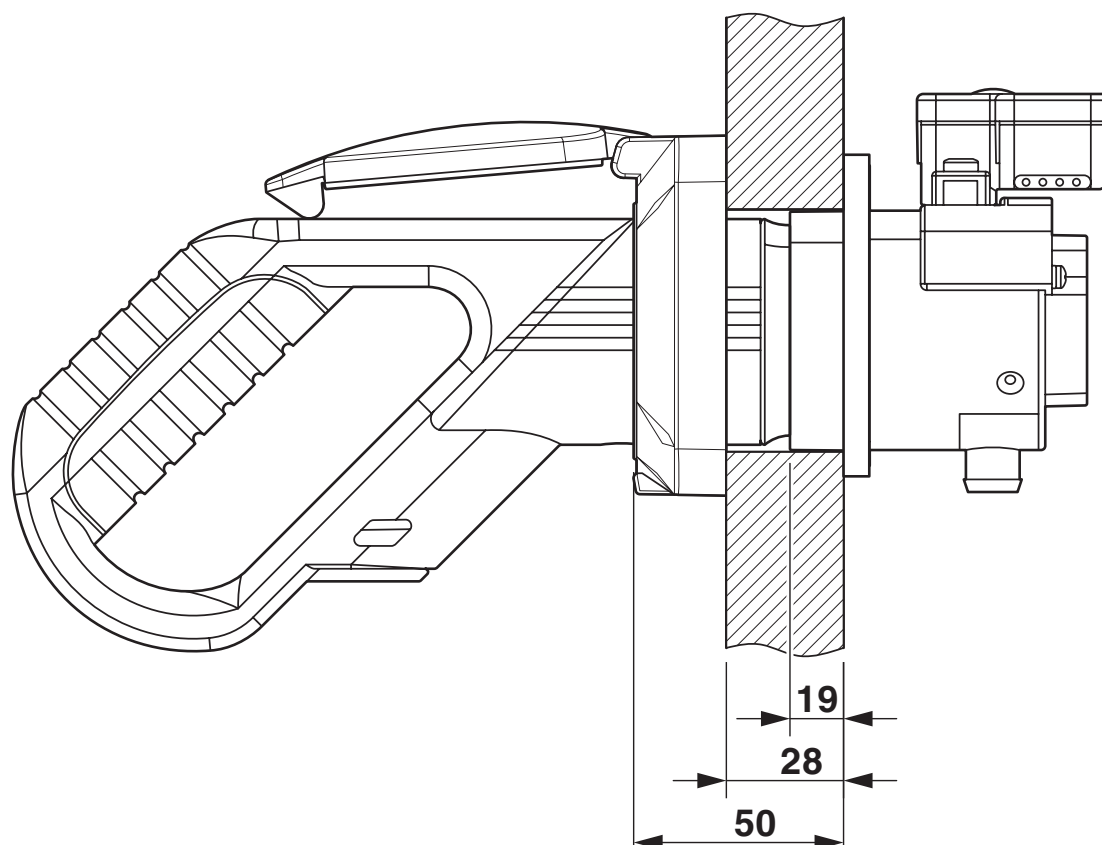
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Schematic diagram



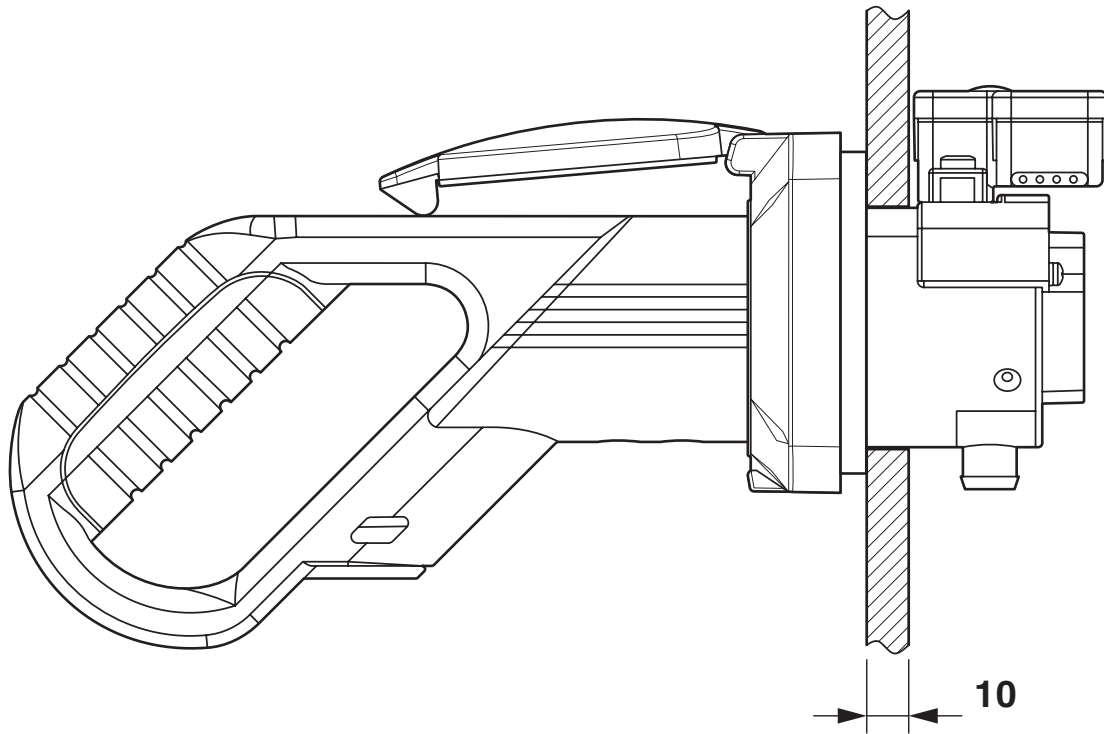
Panel thickness for rear mounting (max. 50 mm, with Phoenix Contact protective cover, max. 22 mm)

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Schematic diagram

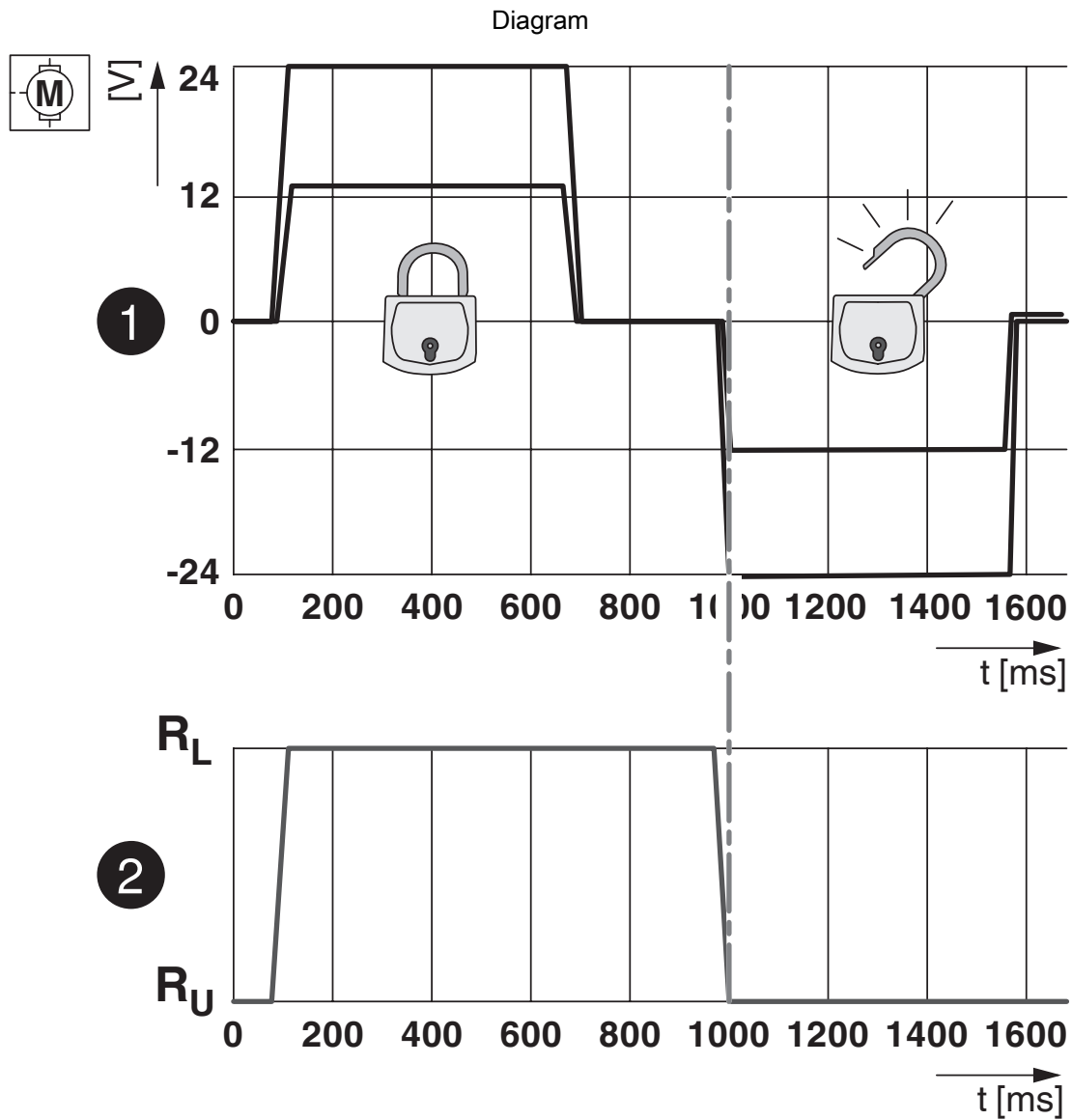


Panel thickness for front mounting (in mm)

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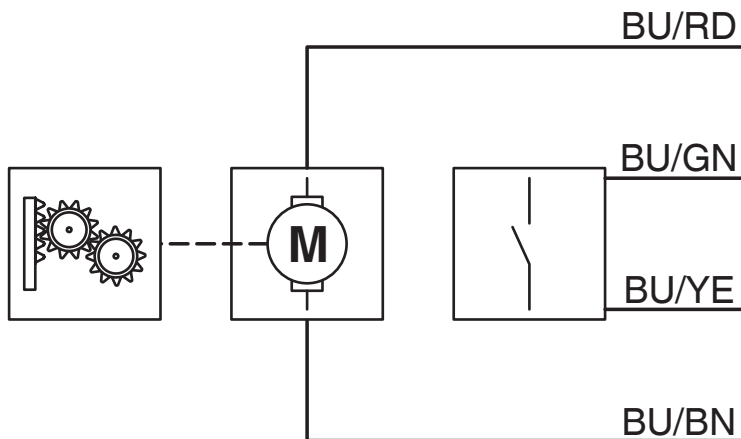
Locking states of the locking actuator

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Block diagram



Block diagram of the locking actuator

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121522 |
|-------------|----------|

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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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