# Socket Outlet - EV-T2M3SE12-3AC32A-1,0M6,0E10 - 1624043

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Infrastructure Socket Outlet for charging electric vehicles with alternating current (AC), compatible with Infrastructure Plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), 12 V Locking actuator, Single wires, length: 1 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 type 2 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
- Manual emergency release of the locking actuator
- Integrated interlock during charging

## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| GTIN | 4 055626 228129 |
| GTIN | 4055626228129 |
| Weight per Piece (excluding packing) | 888.000 g |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

## 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 | IEC 62196-2 |
| Charging standard | Type 2 |
| Charging mode | Mode 3, Case B |
| Note on the connection method | Crimp connection, cannot be disconnected |

### Dimensions

| | |
|---|---|
| Height | 96 mm |

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## Technical data

### Dimensions

| | |
|---|---|
| Width | 75 mm |
| Depth | 76.2 mm |
| Bore dimensions | 60 mm x 60 mm |
| Conductor length | 1 m (AC cables) |
| | 0.5 m (Locking actuator cables) |
| Cable structure | 5x 6.0 mm² + 2x 0.5 mm² |
| 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 | IP44 (plugged in) |
| | IP54 (with protective cover, see accessories) |

### Electrical properties

| | |
|---|---|
| Maximum charging power | 22 kW |
| Type of charging current | AC 3-phase |
| Number of phases | 3 |
| Number of power contacts | 5 (L1, L2, L3, N, PE) |
| Rated current of power contacts | 32 A |
| Rated voltage for power contacts | 480 V AC |
| Number of signal contacts | 2 (CP, PP) |
| 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 |
| | Front mounting only possible when the locking actuator is removed (see EV-T2M3SE...E00 versions) |
| Restrictions to mounting position | Only 0 to 90 degree frontal inclination possible, see figure |
| Mounting position of the locking actuator | Top center |
| Screw connection of a protective cover | only rear mounting possible |
| Max. wall thickness | max. 50 mm (Rear panel mounting, normative maximum specification for infrastructure plug) |
| | max. 28 mm (Rear mounting, normative maximum specification for infrastructure plug when using protective cover 1405217) |

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## Technical data

### Mounting

| | |
|---|---|
| | max. 10 mm (Front mounting, when using the locking mechanism) |
| 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 |

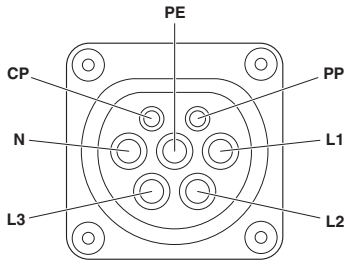
### Environmental Product Compliance

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

## Drawings

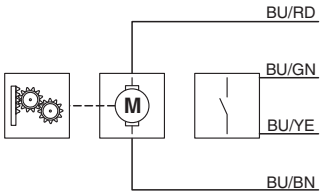
# Socket Outlet - EV-T2M3SE12-3AC32A-1,0M6,0E10 - 1624043

Connection diagram



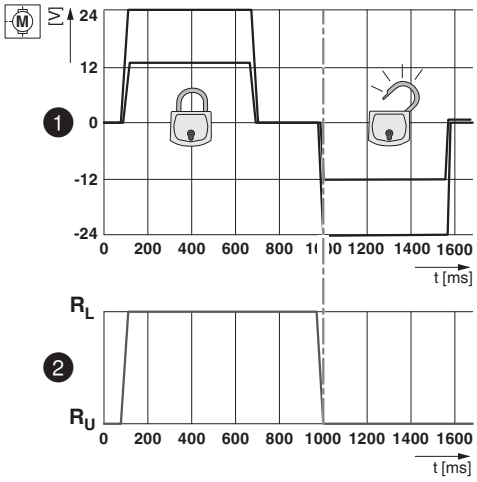

Pin assignment of Infrastructure Socket Outlet

Block diagram



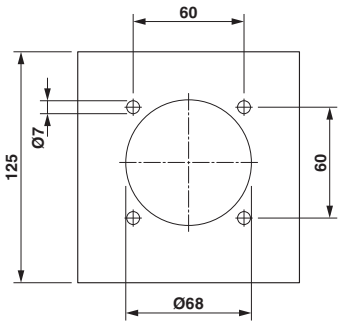

Block diagram of the locking actuator

Diagram



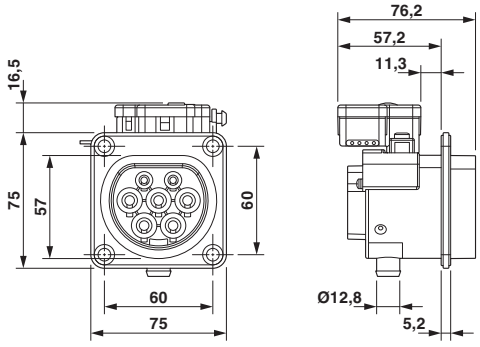

Locking states of the locking actuator

Dimensional drawing



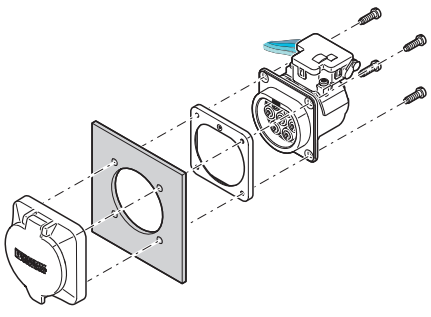

Hole image

Dimensional drawing




Dimensional drawing

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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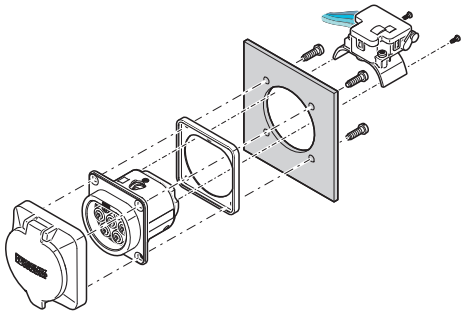
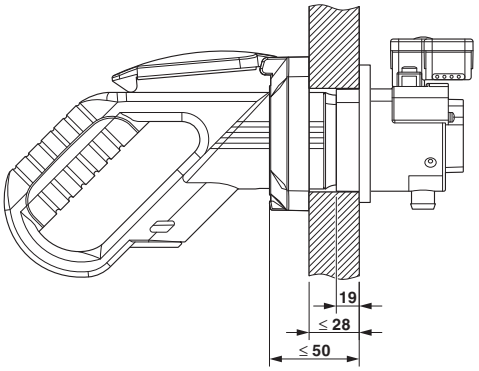
Schematic diagram



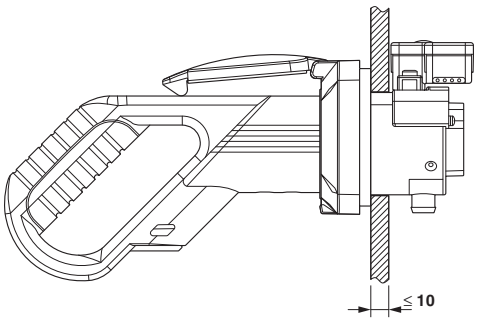
Front mounting with rear protective cover screw connection
Front mounting is only possible when the locking actuator is removed. We recommend using an infrastructure socket outlet without pre-assembled locking actuator (EV-T2M3SE-...E0..., e.g., 1621729). The screw connection for a protective cover from 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.

Schematic diagram




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

Schematic diagram




Panel thickness for front mounting (in mm)

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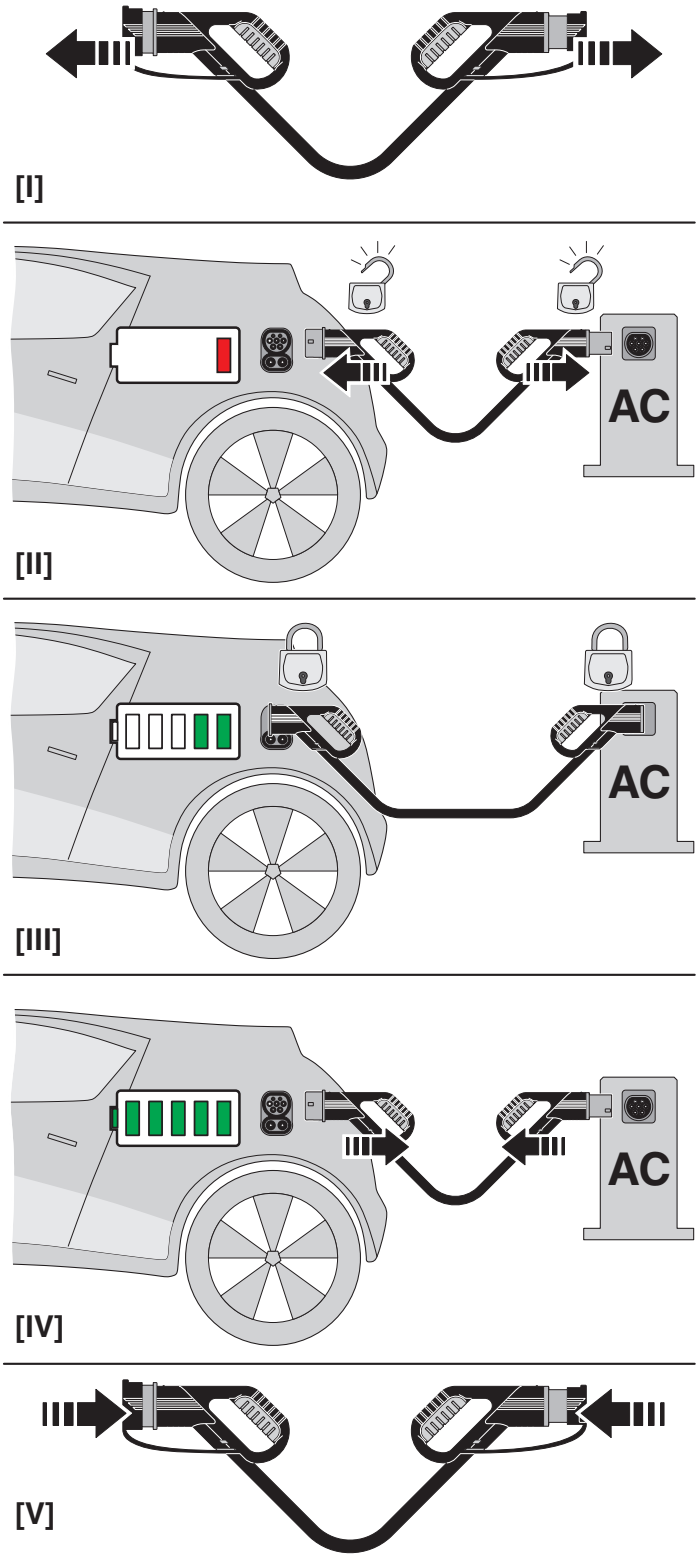
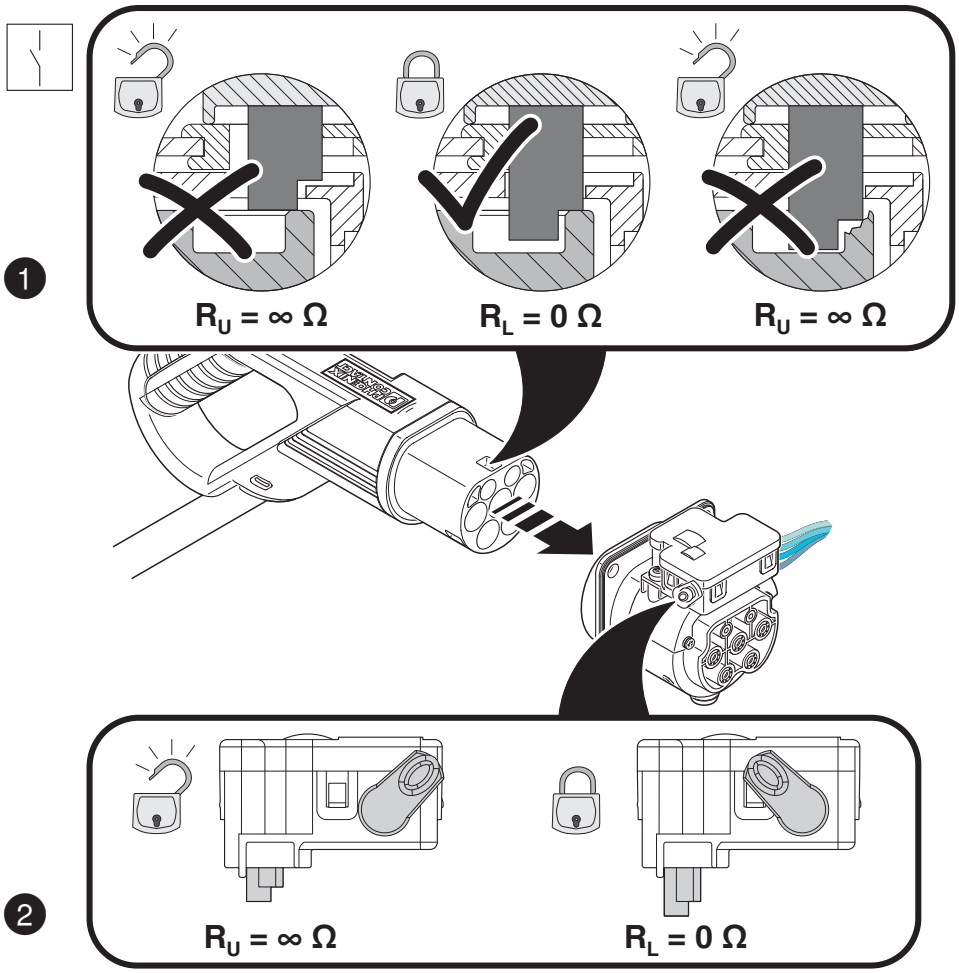
Schematic diagram



# Socket Outlet - EV-T2M3SE12-3AC32A-1,0M6,0E10 - 1624043

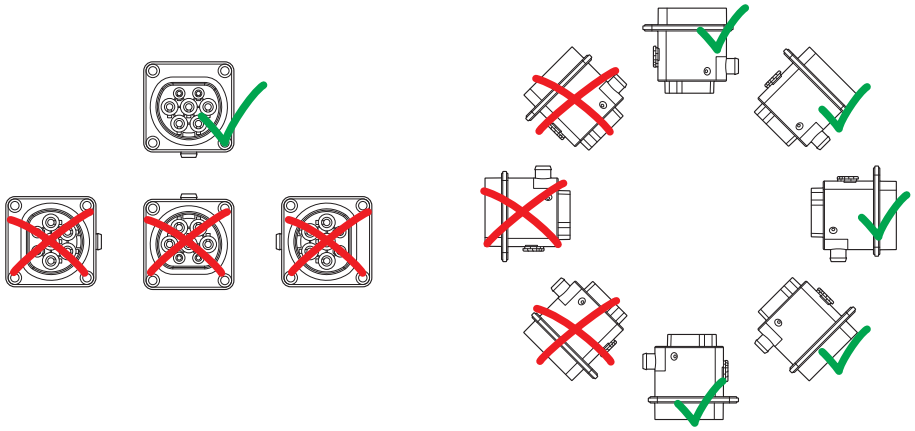
Schematic diagram




Detection of the Infrastructure Plug

# Socket Outlet - EV-T2M3SE12-3AC32A-1,0M6,0E10 - 1624043

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 - EM-CP-PP-ETH - 2902802

EV charge control is used to charge electrical vehicles on the 3-phase AC mains power supply according to IEC 61851-1 Mode 3. All necessary control functions are integrated. Additional functions are available for various charging applications.

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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.

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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.

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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.

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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.

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Locking actuator

# Socket Outlet - EV-T2M3SE12-3AC32A-1,0M6,0E10 - 1624043

## Accessories

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

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

### Panel mounting frame for Socket Outlet

Panel mounting frames - EV-T2SF - 1405218

Panel mounting frame for Infrastructure Socket Outlet, Type 2, IEC 62196-2, Front mounting, screwed on the back, Front protective cover screw connection, M5 thread

### Protective cover for Socket Outlet

Protective covers - EV-T2SC - 1405217

Self-closing protective cover for infrastructure socket outlet, Type 2, IEC 62196-2, Front mounting, screwed on the front, Rear protective cover screw connection, M5 thread

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

# Socket Outlet - EV-T2M3SE12-3AC32A-1,0M6,0E10 - 1624043

## Accessories

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

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