

# EV-T2M3SO12-3P-BL-SET - Infrastructure charging socket



1268358

<https://www.phoenixcontact.com/us/products/1268358>

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CHARX connect modular, Infrastructure charging socket, square, Basic, Set, with square protective cover, with LED (common cathode connection), for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 3-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

## Product description

Infrastructure charging sockets with protective cover, 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

- Charging status intuitively visible at a glance with color LED indicator
- Protected against overheating with precise temperature measurement
- Flexible mounting and easy maintenance with plug-in cables
- Available with your logo on request – for consistent branding of your charging station
- Waterproof and dirtproof due to fully molded contacts
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Uniform, space-saving installation space

## Commercial data

Item number	1268358
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBADC
GTIN	4063151419653
Weight per piece (including packing)	609 g
Weight per piece (excluding packing)	538 g
Country of origin	DE

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## Set consists of

### EV-T2M3SO12-3P-B - Infrastructure charging socket

1164309

<https://www.phoenixcontact.com/us/products/1164309>



CHARX connect modular, Infrastructure charging socket, square, Basic, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 3-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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### EV-T2SOC-P - Protective cover

1164297

<https://www.phoenixcontact.com/us/products/1164297>



CHARX connect modular, Protective cover, square, Accessories, Premium, with self-locking mechanism, with LED (common cathode connection), for attaching to infrastructure charging sockets, Type 2, IEC 62196-2, Front mounting, M5 thread, Embossed PHOENIX CONTACT logo

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## EV-T2M3SO-CAP - Protective cap

1202424

<https://www.phoenixcontact.com/us/products/1202424>



CHARX connect modular, Protective cap, circular, Accessories, for strain relief and touch protection, Type 2, IEC 62196-2

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## Technical data

### Product properties

Design (Infrastructure charging socket)	square
Design (Protective cover)	square
Design (Protective cap)	circular
Product type	Infrastructure charging socket
Product family	CHARX connect modular
Application	for charging electric vehicles (EV) with alternating current (AC) compatible with infrastructure charging plugs
Type	Basic Set
Design	with square protective cover with LED (common cathode connection)
Compatibility	The square basic protective cover version included in this set is not compatible with the shutter. Choose a set with a premium and/or round protective cover version for this.
Affixed logo	PHOENIX CONTACT logo
Charging standard	Type 2
Charging mode	Mode 3, Case B

### Electrical properties

Type of signal transmission	Pulse width modulation
Note on the connection method	Connection via spade connector, separable and reconnectable
Type of charging current	AC 3-phase
Charging power rating	22 kW
Charging power	max. 26.6 kW
Charging current	max. 32 A

#### Power contact

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

#### Signal contact

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

#### LED function

Application	to display the charging status
Position	in the frame of the protective cover
Connection type	common cathode

#### Locking actuator

Operating voltage	12 V
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Note number of positions	3-pos.
Position of the locking actuator	top center
Locking actuator	
Operating voltage	12 V
Note number of positions	3-pos.
Position of the locking actuator	top center
Possible power supply range at the motor	9 V ... 15.5 V
Operating current	< 1.8 A
Typical motor current for locking	250 mA Average run current
Reverse current of the motor	max. 2.4 A (Stall current)
Max. dwell time with reverse current	4 s
Recommended triggering time	200 ms ... 10 s ( $t_{on}$ , typical)
Pause time after entry or exit path	8x ( $t_{on}$ , typical)
Service life insertion cycles	> 10000 load cycles
Lock recognition	available
Lock setting	LOCK (Lever in horizontal position) UNLOCK (Lever in vertical position)
Mechanical emergency release	available
Ambient temperature (operation)	-30 °C ... 50 °C
Cable length	0.5 m
Cable structure	3 x 0.5 mm <sup>2</sup>

## Dimensions

### Infrastructure charging socket

Dimensional drawing	
Width	75 mm
Height	91.71 mm
Depth	87.95 mm

### Protective cover

Dimensional drawing	
Width	84.9 mm
Height	93.7 mm

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Depth	30.5 mm
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## Bore dimensions

Dimensional drawing	
Width	60 mm
Height	60 mm

## Protective cap

Width	64 mm
Height	57 mm
Depth	24 mm

## Material specifications

Color (Housing)	black (9005)
Color (Protective cover)	black (9005)
Material (Housing)	Plastic
Material (Protective cover)	Plastic
Material (Contact surface)	Silver

## Cable/line

Cable type	without single-core wires
Single wire, cross section	6.00 mm <sup>2</sup>

## Single-core wires for locking actuator

Cable length	0.5 m
Cable structure	3 x 0.5 mm <sup>2</sup>
Single wire, material	PVC
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

## Mechanical properties

Type of cover movement	Self-locking
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## Mechanical data

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

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Infrastructure charging socket)	IP44 (plugged in)
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Degree of protection (Protective cover)	IP54
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
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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 panel mounting
Max. wall thickness	max. 50.00 mm (Rear panel mounting, normative maximum specification for infrastructure plug)
	max. 29.00 mm (Rear panel mounting, normative maximum specification for infrastructure charging plug when using protective cover 1164297)
Mounting hole diameter	7.00 mm (ø)
Fixing screws	M5 thread
Screws included in the scope of delivery	none

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## Classifications

### ECLASS

ECLASS-11.0	27144706
ECLASS-12.0	27144706
ECLASS-13.0	27144706

### ETIM

ETIM 9.0	EC002898
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### UNSPSC

UNSPSC 21.0	39121800
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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