

1164420

https://www.phoenixcontact.com/pc/products/1164420

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CHARX connect modular, Infrastructure charging socket, square, Basic, Set, with square protective cover, 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

- · 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	1164420
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBADC
GTIN	4063151177782
Weight per piece (including packing)	686 g
Weight per piece (excluding packing)	686 g
Customs tariff number	85366990
Country of origin	DE



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Set consists of

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

1164309

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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

EV-T2SOC-B - Protective cover

1164293

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CHARX connect modular, Protective cover, square, Accessories, Basic, with self-locking mechanism, 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

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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
Туре	Basic
	Set
Design	with square protective cover
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

Locking actuator

Operating voltage	12 V
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.



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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 ²

Dimensions

Infrastructure charging socket

Dimensional drawing	59 11.7 53 13.8 521 95 (73.4)
Width	75 mm
Height	91.71 mm
Depth	87.95 mm

Protective cover

	85 S 5 S 7 S 7 S 7 S 7 S 7 S 7 S 7 S 7 S 7 S 7
Width	85 mm
Height	93.7 mm
Depth	32.5 mm

Bore dimensions



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Ambient conditions

Degree of protection (Infrastructure charging socket)

Degree of protection (Protective cover)

Ambient temperature (storage/transport)

Ambient temperature (operation)

Dimensional drawing	0 s s s s
Width	60 mm
Height	60 mm
Protective cap	
Width	64 mm
Height	57 mm
Depth	24 mm
aterial specifications	
Color (Housing)	black (9005)
Color (Protective cover)	black (9005)
Material (Housing)	Plastic
Material (Protective cover)	Plastic
Material (Contact surface)	Silver
able/line	
Cable type	without single-core wires
Single wire, cross section	6.00 mm²
Single-core wires for locking actuator	
Cable length	0.5 m
Cable structure	3 x 0.5 mm²
Single wire, material	PVC
External cable diameter	1.6 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
echanical properties	
Type of cover movement	Self-locking
Mechanical data	
Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
macrifor force	

IP44 (plugged in)

-30 °C ... 50 °C

-40 °C ... 80 °C

IP54



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Altitude	5000 m (above sea level)
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Standards	
Standards/regulations	IEC 62196-2
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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 mm (Rear panel mounting, normative maximum
	specification for infrastructure plug)
	max. 27 mm (Rear panel mounting, normative maximum
	specification for infrastructure charging plug when using protective cover 1164293)
Mary Park halo Parasta	,
Mounting hole diameter	7.00 mm (ø)
Fixing screws	M5 thread
Screws included in the scope of delivery	none

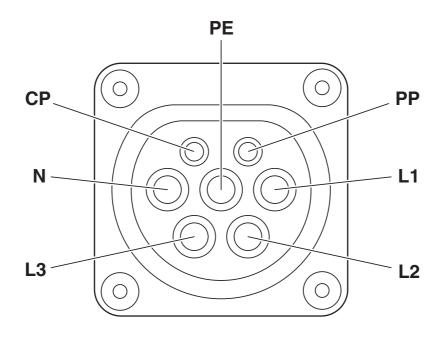


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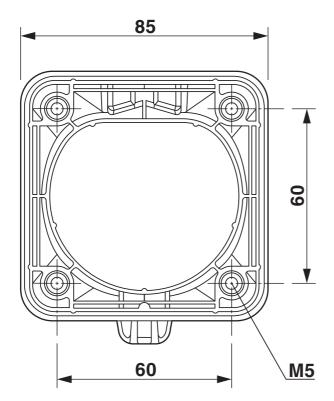
Drawings

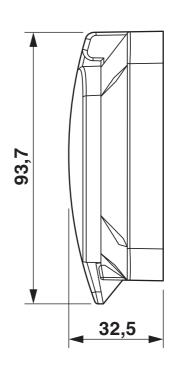
Connection diagram



Pin assignment of infrastructure charging socket

Dimensional drawing

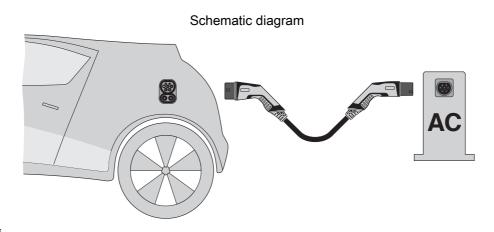






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Diagram

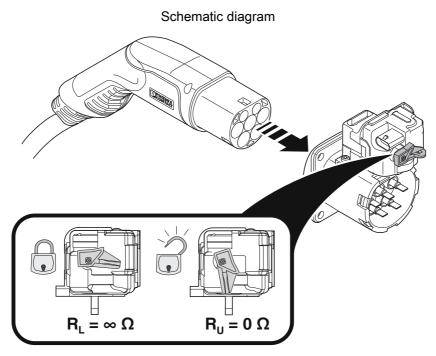
Operating instructions

Locking states of the locking actuator



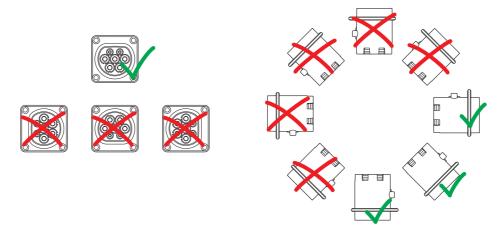
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Position of the emergency unlocking lever on the locking actuator

Schematic diagram

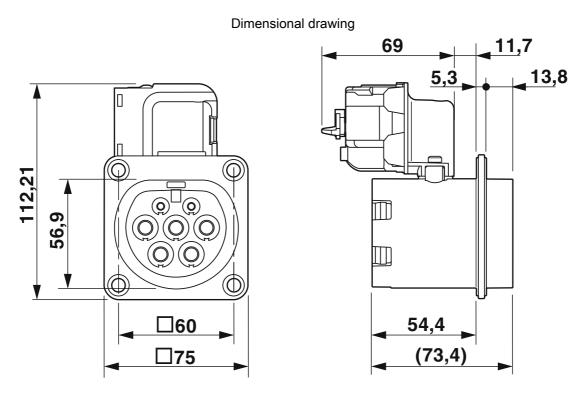


Installation positions

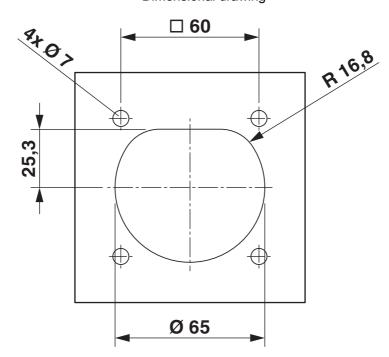


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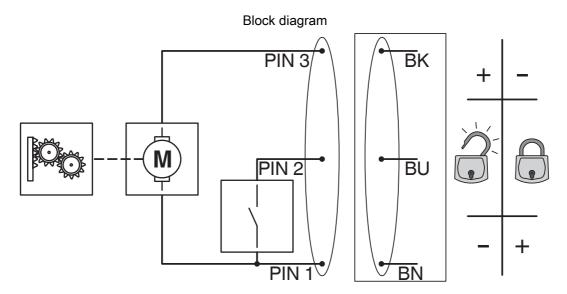
Dimensional drawing





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Block diagram of the locking actuator



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1164420



VDE Gutachten mit Fertigungsüberwachung

Approval ID: 40053862



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27144706
	ECLASS-12.0	27144706
	ECLASS-13.0	27144706
ETIM		
	ETIM 8.0	EC002898
UNSPSC		

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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Accessories

EV-LABEL-C-SO - Label

1315521

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CHARX connect, Label, Accessories, for AC type 2 infrastructure charging socket and for AC type 2 infrastructure charging plug, DIN EN 17186



EV-T2SOC-B - Protective cover

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CHARX connect modular, Protective cover, square, Accessories, Basic, with self-locking mechanism, for attaching to infrastructure charging sockets, Type 2, IEC 62196-2, Front mounting, M5 thread, Embossed PHOENIX CONTACT logo



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EV-T2M3SOW-1AC32A-0,3M6,0E - Cable set for infrastructure charging socket

1164343

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CHARX connect modular, Cable set for infrastructure charging socket, Accessories, with slip-on sleeve at one end, Only for connection to generation 2 infrastructure charging sockets from Phoenix Contact, Type 2, IEC 62196-2, 32 A / 250 V (AC), Single wires, length: 0.3 m, Plug-in mounting

EV-T2M3SOW-3AC20A-0,3M2,5E - Cable set for infrastructure charging socket

1164355

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CHARX connect modular, Cable set for infrastructure charging socket, Accessories, with slip-on sleeve at one end, Only for connection to generation 2 infrastructure charging sockets from Phoenix Contact, Type 2, IEC 62196-2, 20 A / 480 V (AC), Single wires, length: 0.3 m, Plug-in mounting



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EV-T2M3SOW-3AC32A-0,3M6,0E - Cable set for infrastructure charging socket

1164362

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CHARX connect modular, Cable set for infrastructure charging socket, Accessories, with slip-on sleeve at one end, Only for connection to generation 2 infrastructure charging sockets from Phoenix Contact, Type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: 0.3 m, Plug-in mounting

EV-T2M3SOW-1AC32A-0,7M6,0E - Cable set for infrastructure charging socket

1164344

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CHARX connect modular, Cable set for infrastructure charging socket, Accessories, with slip-on sleeve at one end, Only for connection to generation 2 infrastructure charging sockets from Phoenix Contact, Type 2, IEC 62196-2, 32 A / 250 V (AC), Single wires, length: 0.7 m, Plug-in mounting



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EV-T2M3SOW-3AC20A-0,7M2,5E - Cable set for infrastructure charging socket

1164361

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CHARX connect modular, Cable set for infrastructure charging socket, Accessories, with slip-on sleeve at one end, Only for connection to generation 2 infrastructure charging sockets from Phoenix Contact, Type 2, IEC 62196-2, 20 A / 480 V (AC), Single wires, length: 0.7 m, Plug-in mounting

EV-T2M3SOW-3AC32A-0,7M6,0E - Cable set for infrastructure charging socket

1164365

https://www.phoenixcontact.com/pc/products/1164365



CHARX connect modular, Cable set for infrastructure charging socket, Accessories, with slip-on sleeve at one end, Only for connection to generation 2 infrastructure charging sockets from Phoenix Contact, Type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: $0.7\ m$, Plug-in mounting



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EV-T2M3SL12-CONNECTOR - Connector

1132718

https://www.phoenixcontact.com/pc/products/1132718



CHARX connect modular, Connector, Accessories, with single-core wires, for controlling a 3-pos. locking actuator of an infrastructure charging socket, Type 2, GB/T, IEC 61851-1, Single wires, length: 0.5 m, housing: black

EV-T2M3SO-CAP - Protective cap

1202424

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



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EV-T2M3SO-CAP-REMOVER - Removal tool

1286836

https://www.phoenixcontact.com/pc/products/1286836



CHARX connect modular, Removal tool, Accessories, for removing the protective cap for strain relief and touch protection, which is mounted on the back of the infrastructure charging sockets, Type 2

CHARX SEC-1000 - AC charging controller

1139034

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CHARX control modular, AC charging controller, IEC 61851-1, operating mode: Stand-Alone, Client, interface: CHARX control modular system bus, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting



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CHARX SEC-3000 - AC charging controller

1139022

https://www.phoenixcontact.com/pc/products/1139022



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2 x), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

CHARX SEC-3050 - AC charging controller

1139018

https://www.phoenixcontact.com/pc/products/1139018



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, ISO 15118, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2x), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting



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CHARX SEC-3100 - AC charging controller

1139012

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CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2 x), Cellular communication (4G/2G), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

CHARX SEC-3150 - AC charging controller

1138965

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CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, ISO 15118, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2x), Cellular communication (4G/2G), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting



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EM-CP-PP-ETH - AC charging controller

2902802

https://www.phoenixcontact.com/pc/products/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.

VAL-EV-T1/T2 264/12.5/3+1 - Lightning/surge arrester type 1/2

1180149

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CHARX protect advanced: Plug-in lightning surge/surge protective device, in accordance with Type 1/2 / Class I/II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE). Specifically designed for use in e-mobility.



1164420

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VAL-EV-T1/T2 264/12.5/3+1-R - Lightning/surge arrester type 1/2

1180150

https://www.phoenixcontact.com/pc/products/1180150



CHARX protect advanced: Plug-in lightning surge/surge protective device, in accordance with Type 1/2 / Class I/II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE), with remote indication contact. Specifically designed for use in e-mobility.

VAL-EV-T2 280/3+1 - Type 2 surge arrester

1180144

https://www.phoenixcontact.com/pc/products/1180144



CHARX protect basic: Plug-in surge protective device, in accordance with Type 2/Class II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE). Specifically designed for use in e-mobility.



1164420

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VAL-EV-T2 280/3+1-R - Type 2 surge arrester

1180145

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CHARX protect basic: Plug-in surge protective device, in accordance with Type 2/Class II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE), with remote indication contact. Specifically designed for use in e-mobility.

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