EV-T2M3SO12-4P-B-EM - Infrastructure charging socket

1286389

https://www.phoenixcontact.com/in/products/1286389

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CHARX connect modular, Type 2, Infrastructure charging socket, 32 A , 480 V AC, Basic, without single-core wires, locking actuator: 12 V, 4-pos., square, Rear panel mounting, including M5 threaded sleeves (4 x) for “Easy Mount” mounting, housing: black, 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

- 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	1286389
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	XWBADC
GTIN	4063151493660
Weight per piece (including packing)	438 g
Weight per piece (excluding packing)	438 g
Customs tariff number	85366990
Country of origin	DE

Set consists of

EV-T2M3SO-CAP - Protective cap

1202424

https://www.phoenixcontact.com/in/products/1202424

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

Technical data

Product properties

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
Design (Infrastructure charging socket)	square
Design (Protective cap)	circular
Type	Basic
Affixed logo	PHOENIX CONTACT logo
Charging standard	Type 2
Charging mode	Mode 3, Case B
Customer variations	On request

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 (32 A, 3-phase)
Charging power	max. 26.6 kW (3-phase)
Charging current	max. 32 A AC (3-phase)

Power contact

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

Signal contact

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

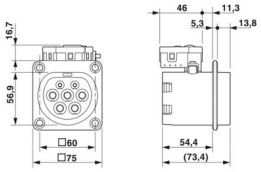
Locking actuator

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

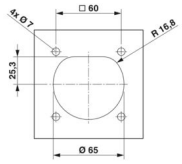
Mechanical emergency release	available
Ambient temperature (operation)	-30 °C ... 50 °C
Cable length	0.5 m
Cable structure	4 x 0.5 mm²

Dimensions

Infrastructure charging socket

Dimensional drawing	
Width	75 mm
Height	91.71 mm
Depth	87.95 mm

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)
Material (Housing)	Plastic
Material (Contact surface)	Silver

Cable/line

Cable type	without single-core wires
	Single-core wires for AC and communication are available separately, see accessories
Single wire, cross section	6.00 mm²

Single-core wires for locking actuator

Cable length	0.5 m
Cable structure	4 x 0.5 mm²

Single wire, material	PVC
Single wire, color	BU/RD, BU/GN, BU/YE, BU/BN
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

Mechanical properties

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)
Degree of protection (Protective cover)	IP54 (see accessories)
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

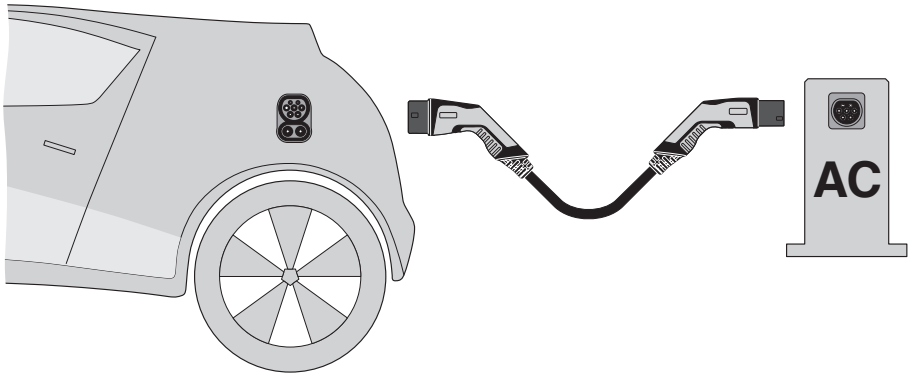
Standards/regulations	IEC 62196-2

Mounting

Mounting type Infrastructure charging socket	Rear panel mounting (0 to 90 degree frontal inclination possible)
Mounting type Protective cover	Rear panel mounting (available separately)
Mounting hole diameter	7.00 mm (ø)
Fixing screws	including M5 threaded sleeves (4 x) for “Easy Mount” mounting
Screws included in the scope of delivery	none

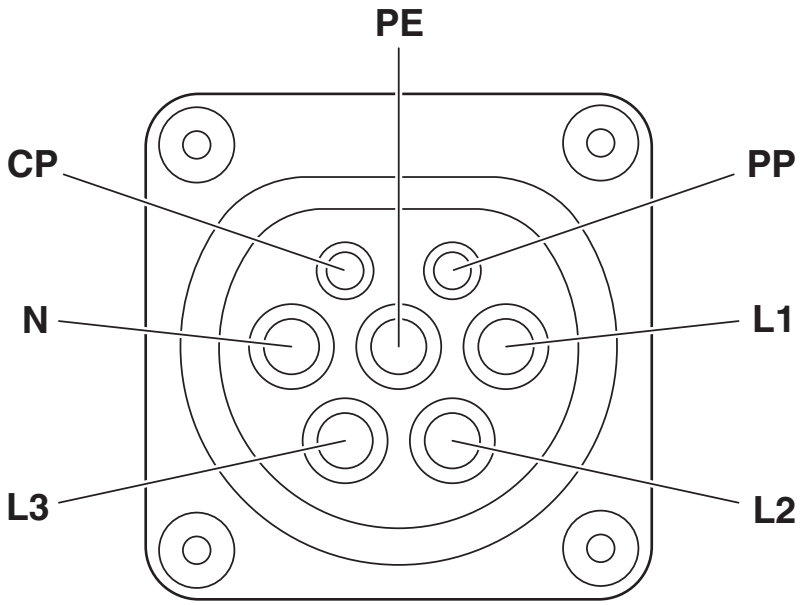
Drawings

Schematic diagram



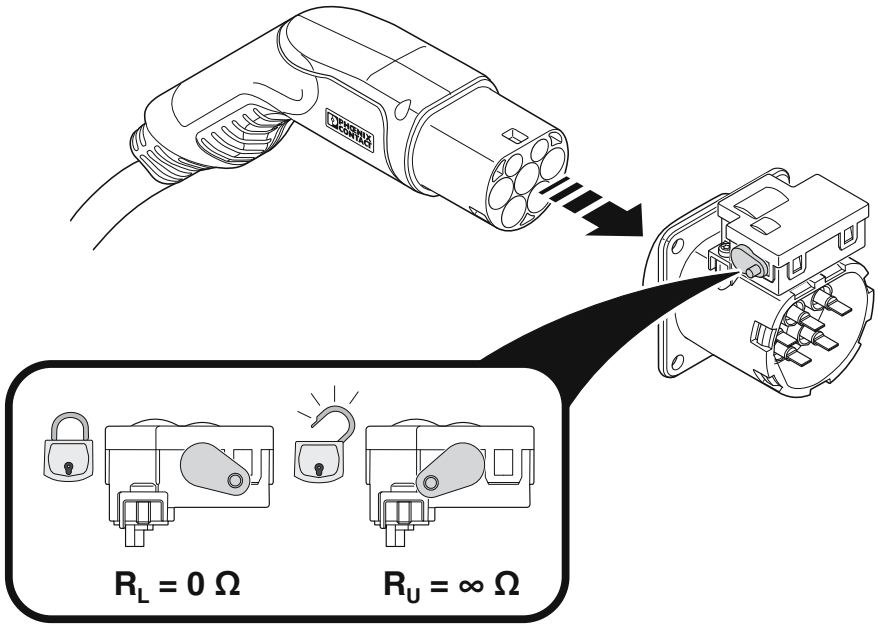
Operating instructions

Connection diagram



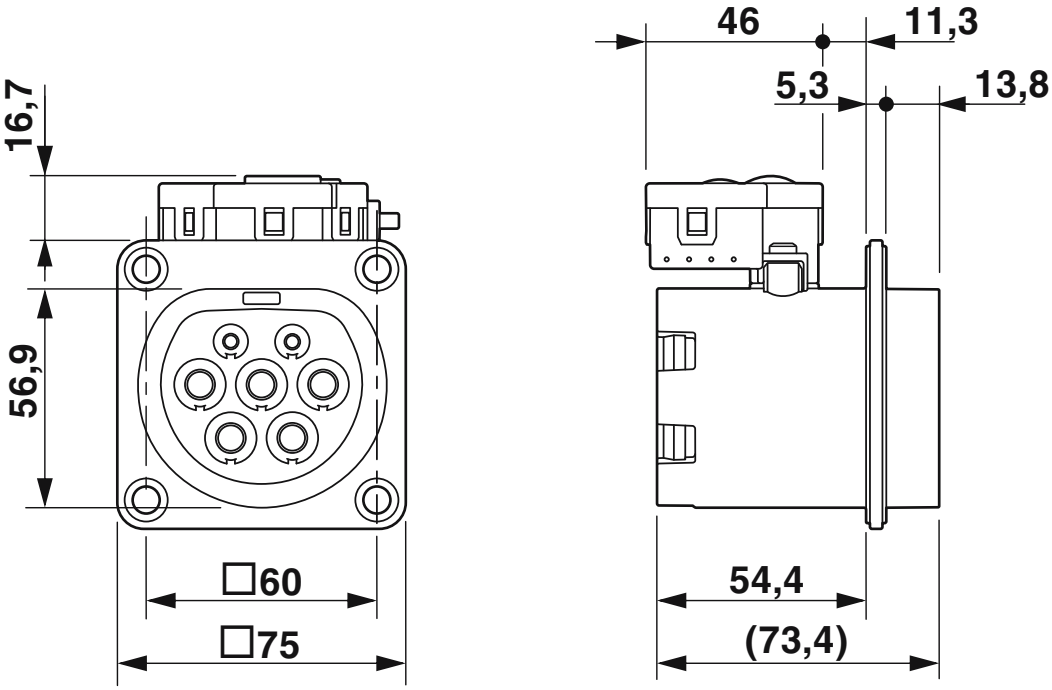
Pin assignment of infrastructure charging socket

Schematic diagram

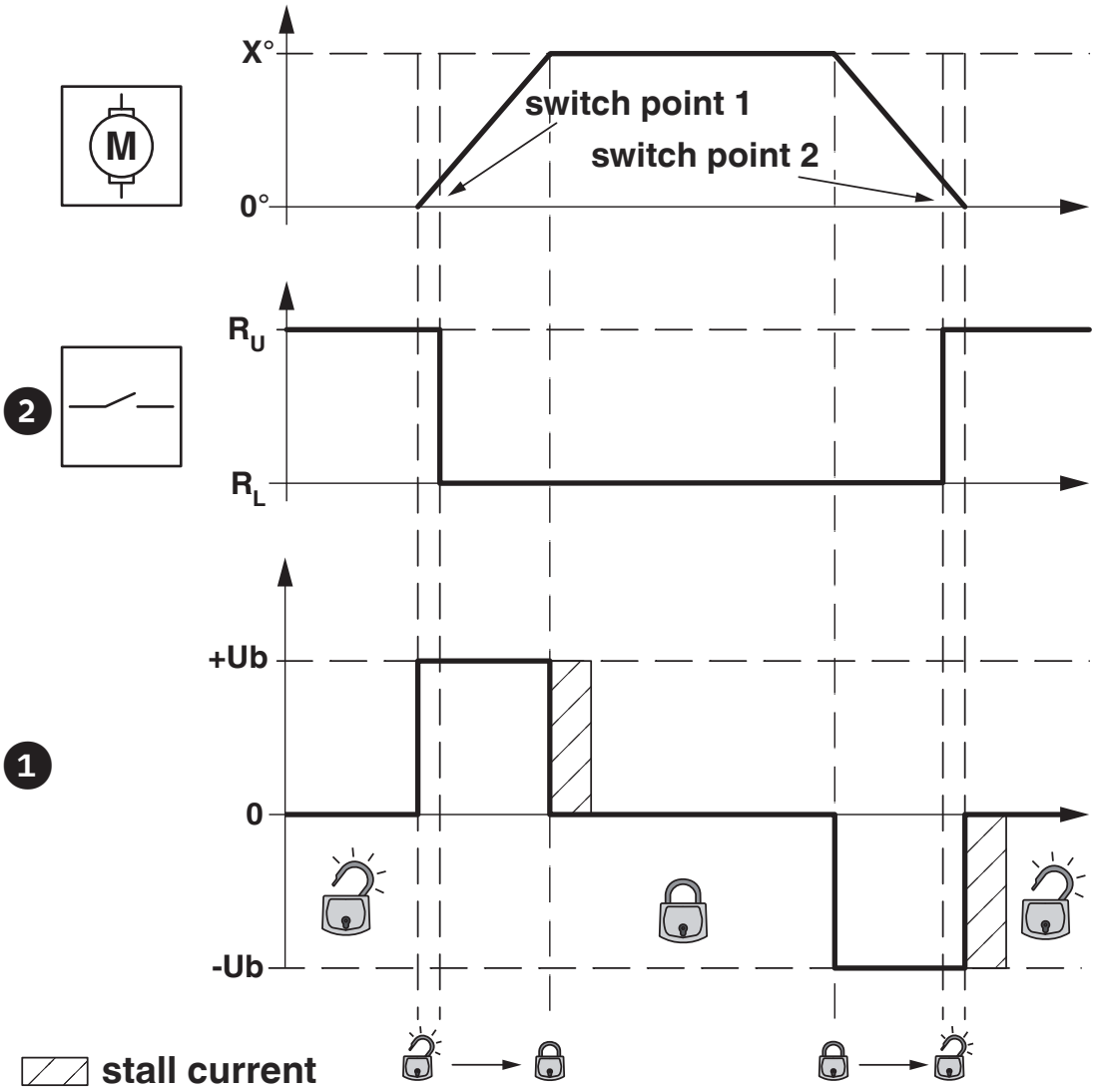


Position of the emergency unlocking lever on the locking actuator

Dimensional drawing

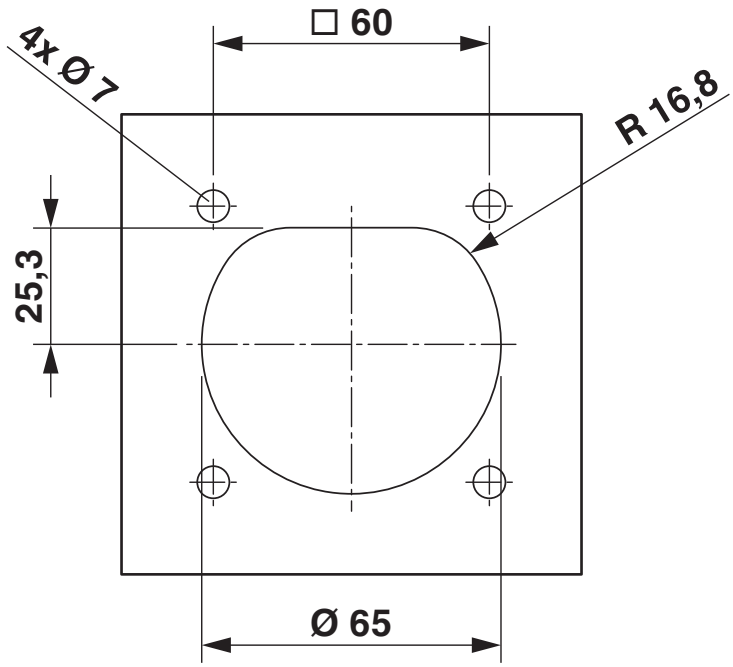


Schematic diagram

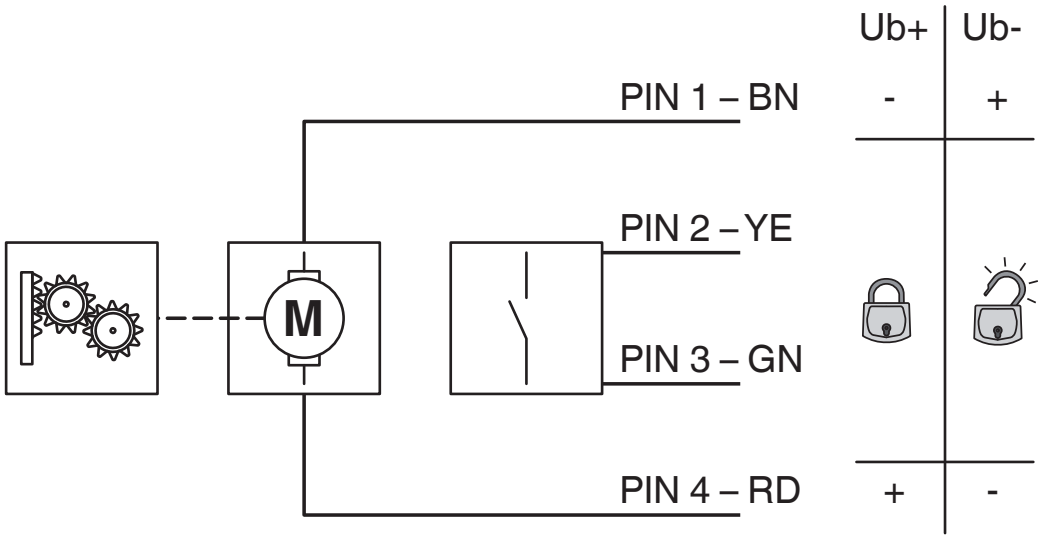


Locking states of the locking actuator

Dimensional drawing

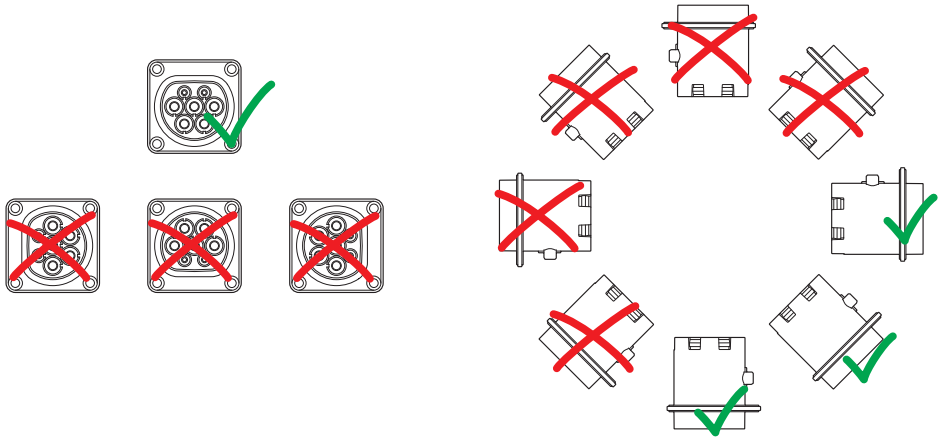


Block diagram



Block diagram of the locking actuator

Schematic diagram



Installation positions

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1286389

VDE report with production monitoring
Approval ID: 40053862

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002898

UNSPSC

UNSPSC 21.0	39121800

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)
SCIP	8df07346-21ca-4dac-8a98-8eae8a3b3305

Accessories

EV-T2SC-EM - Protective cover

1627635

https://www.phoenixcontact.com/in/products/1627635

CHARX connect basic, Type 2, Protective cover, Accessories, square, Front mounting, housing: black, with self-locking mechanism, for attaching to infrastructure charging sockets, Embossed PHOENIX CONTACT logo, IEC 62196-2

EV-T2SF-EM - Fixing frame

1627637

https://www.phoenixcontact.com/in/products/1627637

CHARX connect basic, Type 2, Fixing frame, Accessories, Front mounting, housing: black, for attaching to infrastructure charging sockets, Without logo, IEC 62196-2

EV-LABEL-C-SO - Label

1315521

https://www.phoenixcontact.com/in/products/1315521

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

1164293

https://www.phoenixcontact.com/in/products/1164293

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

EV-T2M3SO12-4P-B-EM - Infrastructure charging socket

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https://www.phoenixcontact.com/in/products/1286389

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

1164343

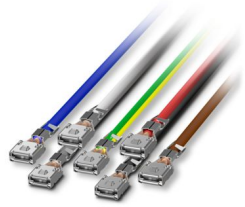
https://www.phoenixcontact.com/in/products/1164343

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

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

1164355

https://www.phoenixcontact.com/in/products/1164355



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

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

1164362

https://www.phoenixcontact.com/in/products/1164362

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

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

1164344

https://www.phoenixcontact.com/in/products/1164344

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

EV-T2M3SO12-4P-B-EM - Infrastructure charging socket

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

1164361

https://www.phoenixcontact.com/in/products/1164361

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

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

1164365

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

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

EV-T2M3SO-CAP - Protective cap

1202424

https://www.phoenixcontact.com/in/products/1202424

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

EV-T2M3SO-CAP-REMOVER - Removal tool

1286836

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

CHARX connect modular, Type 2, 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

CHARX SEC-1000 - AC charging controller

1139034

https://www.phoenixcontact.com/in/products/1139034

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

CHARX SEC-3000 - AC charging controller

1139022

https://www.phoenixcontact.com/in/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

EV-T2M3SO12-4P-B-EM - Infrastructure charging socket

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CHARX SEC-3050 - AC charging controller

1139018

https://www.phoenixcontact.com/in/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

CHARX SEC-3100 - AC charging controller

1139012

https://www.phoenixcontact.com/in/products/1139012

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

EV-T2M3SO12-4P-B-EM - Infrastructure charging socket

1286389

https://www.phoenixcontact.com/in/products/1286389

CHARX SEC-3150 - AC charging controller

1138965

https://www.phoenixcontact.com/in/products/1138965

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

EM-CP-PP-ETH - AC charging controller

2902802

https://www.phoenixcontact.com/in/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.

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

1180149

https://www.phoenixcontact.com/in/products/1180149

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.

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

1180150

https://www.phoenixcontact.com/in/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.

EV-T2M3SO12-4P-B-EM - Infrastructure charging socket

1286389

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

1180144

https://www.phoenixcontact.com/in/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.

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

1180145

https://www.phoenixcontact.com/in/products/1180145

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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