Set - EV-T2M3SO12-3P-BL-SET - 1268358

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CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 3-position, Rear panel mounting, M5 thread, Generation 2 Basic with LED cover, “PHOENIX CONTACT” logo

Product Description

Infrastructure Socket Outlet 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

- Uniform, space-saving installation space of all Phoenix Contact Infrastructure Socket Outlets
- Silver-plated surface of the power and signal contacts
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Manual emergency release of the locking actuator
- Integrated interlock during charging

RoHS

Key Commercial Data

Packing unit	1
GTIN	4 063151 419653
GTIN	4063151419653

Technical data

Product definition

Type	Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection
	rear protective cover screw connection
	with LED status indicator within the protective cover
	can be reconnected

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Technical data

Product definition

Application	For charging electric vehicles (EV) with alternating current (AC)
	Compatible with infrastructure charging plugs
Affixed logo	“PHOENIX CONTACT” logo
Design	Generation 2 Basic with LED cover
Standards/regulations	IEC 62196-2
Charging standard	Type 2
Charging mode	Mode 3, Case B
Note on the connection method	Connection via spade connector, separable

Dimensions

Height	112.54 mm
Width	75 mm
Depth	87.95 mm (with attachable cap for strain relief and touch protection, see accessories)
	73.35 mm (without attachable cap for strain relief and touch protection, see accessories)
Bore dimensions	60 mm x 60 mm
Type of conductor	without cable

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)

Electrical properties

Charging power (nominal operation)	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	Connection via spade connector, separable

Mechanical properties

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Mechanical properties

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

Mounting

Possible mounting positions	Rear panel mounting
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)
Mounting hole diameter	7.00 mm (ø)
Required mounting screws	M5 thread
Screws included in the scope of delivery	none

Design

Design line	Generation 2 Basic with LED cover
Housing color	black

Material

Material	Plastic
Material surface of contacts	Ag

Locking

Locking type	Locking in the inserted state with a locking mechanism

Locking actuator

Number of positions of theconnectors	3
Operating voltage	12 V (Typical power supply at the motor)
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
Ambient temperature (operation)	-30 °C ... 50 °C
Cable length	0.5 m

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Technical data

Locking actuator

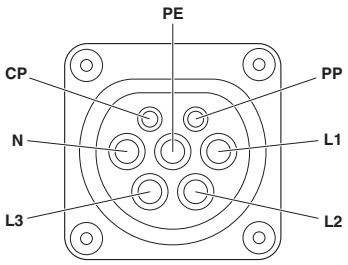
Cable structure	3 x 0.5 mm²
Lock recognition	available
Mechanical emergency release	available
Lock setting	LOCK (Lever in horizontal position)
	UNLOCK (Lever in vertical position)

Environmental Product Compliance

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

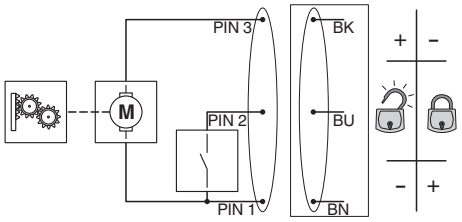
Drawings

Connection diagram



Pin assignment of Infrastructure Socket Outlet

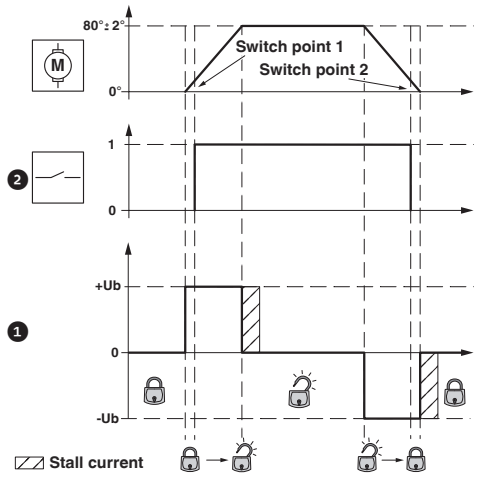
Block diagram



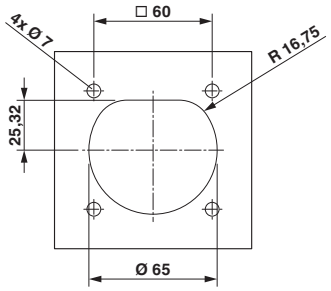
Block diagram of the locking actuator

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Diagram



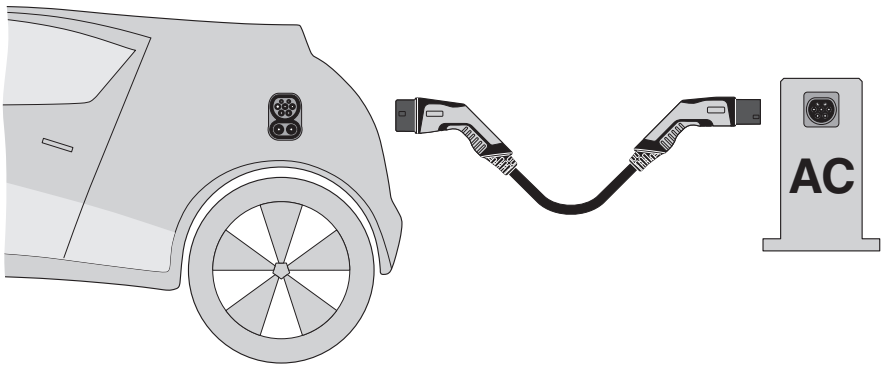
Schematic diagram



Hole image

Locking states of the locking actuator

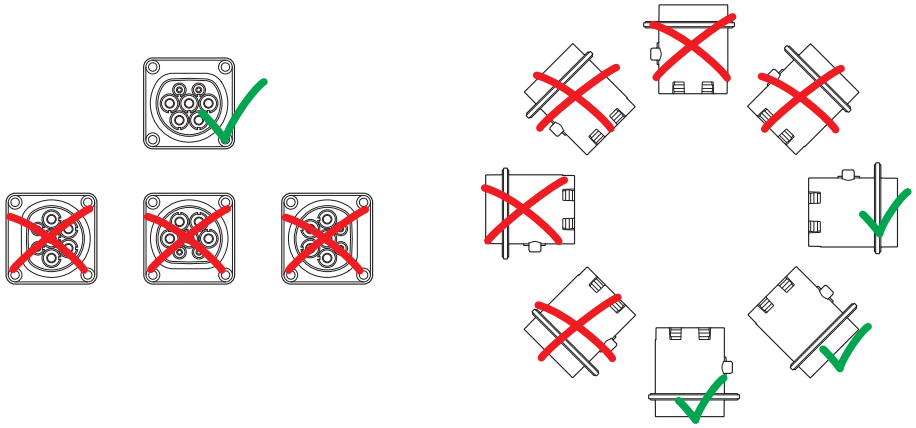
Schematic diagram



Operating instructions

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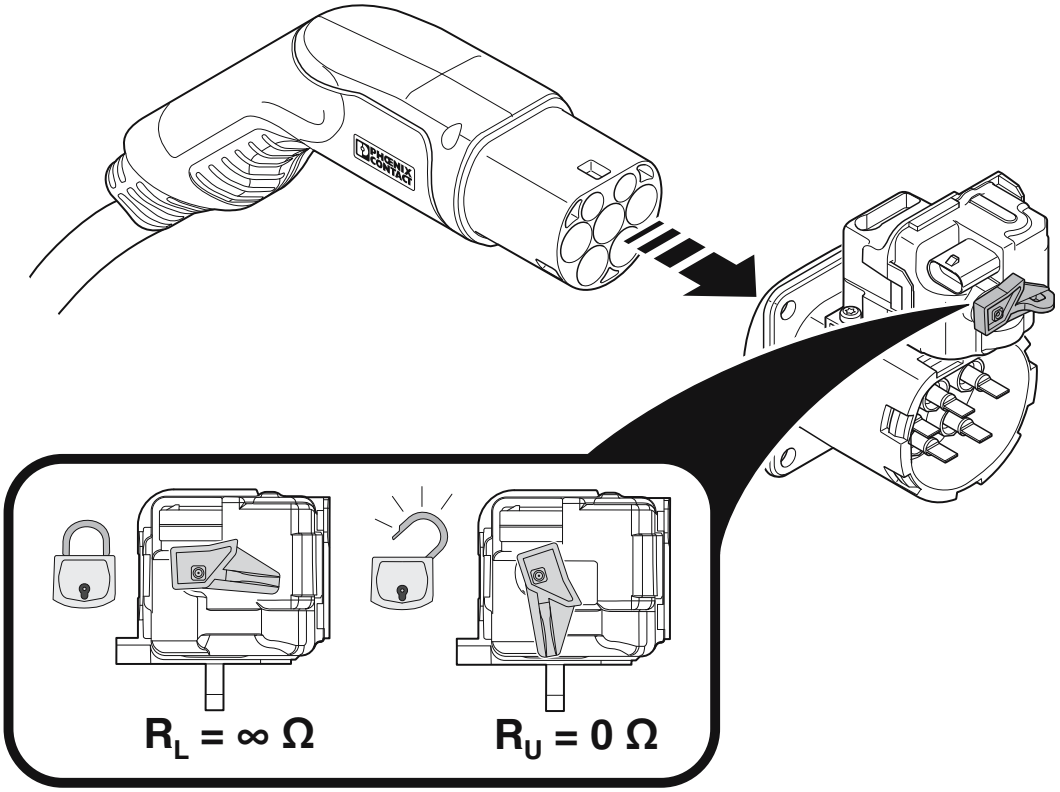
Schematic diagram



Installation positions

Set - EV-T2M3SO12-3P-BL-SET - 1268358

Schematic diagram



Position of the emergency unlocking lever on the locking actuator

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Articles in set

Socket Outlet - EV-T2M3SO12-3P-B - 1164309



CHARX connect, Socket Outlet, rear protective cover screw connection, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 3-position, Rear panel mounting, M5 thread, Generation 2 Basic, “PHOENIX CONTACT” logo

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Protective covers - EV-T2SOC-P - 1164297



CHARX connect, Protective covers, self-closing, rear protective cover screw connection, with LED status indicator within the protective cover, For attaching to infrastructure charging sockets, Type 2, IEC 62196-2, M5 thread, Generation 2 Premium, Embossed PHOENIX CONTACT logo

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Strain relief - EV-T2M3SO-CAP - 1202424



CHARX connect, Strain relief, Touch protection, For generation 2.0 infrastructure charging socket, For plugging onto the rear of the infrastructure charging socket, Type 2, IEC 62196-2, Generation 2

Classifications

eCl@ss

eCl@ss 10.0.1	27144706
eCl@ss 11.0	27144706
eCl@ss 9.0	27144706

Accessories

Accessories

AC charging controller

AC charging controller - CHARX SEC-1000 - 1139034



CHARX control modular, AC charging controller according to IEC 61851-1. Configurable charging controller. operating mode Stand-alone or client. interface: CHARX control modular system bus. Connectable peripheral devices: Energy meter, RFID, DC residual current detection. DIN rail mounting

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Accessories

AC charging controller - CHARX SEC-3000 - 1139022



CHARX control modular, AC charging controller according to IEC 61851-1. Embedded Linux system. operating mode Stand-alone, server, or client. 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

AC charging controller - CHARX SEC-3050 - 1139018



CHARX control modular, AC charging controller according to IEC 61851-1, ISO/IEC 15118. Embedded Linux system. operating mode Stand-alone, server, or client. 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

AC charging controller - CHARX SEC-3100 - 1139012



CHARX control modular, AC charging controller according to IEC 61851-1. Embedded Linux system. operating mode Stand-alone, server, or client. 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

AC charging controller - CHARX SEC-3150 - 1138965



CHARX control modular, AC charging controller according to IEC 61851-1, ISO/IEC 15118. Embedded Linux system. operating mode Stand-alone, server, or client. 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

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.

Adhesive label

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Accessories

Label - EV-LABEL-C-SO - 1315521



CHARX connect, Label, accordance to DIN EN 17186, for AC charging cables and infrastructure charging sockets, Marking C for AC type 2 infrastructure charging plugs and type 2 infrastructure charging sockets

Arrester combination

Lightning/surge arrester type 1/2 - VAL-EV-T1/T2 264/12.5/3+1 - 1180149



CHARX protect: pluggable lightning current arrester/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.

Lightning/surge arrester type 1/2 - VAL-EV-T1/T2 264/12.5/3+1-R - 1180150



CHARX protect: pluggable lightning current arrester/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.

Type 2 surge arrester - VAL-EV-T2 280/3+1 - 1180144



CHARX protect: pluggable 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.

Type 2 surge arrester - VAL-EV-T2 280/3+1-R - 1180145



CHARX protect: pluggable 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.

Set - EV-T2M3SO12-3P-BL-SET - 1268358

Accessories

Assembly tool

Tool - EV-T2M3SO-CAP-REMOVER - 1286836

CHARX connect, tool for opening the optional cap for attachment to the back of the Generation 2.0 Basic infrastructure charging socket with functions for strain relief and touch protection.

Cable set

Cable set - EV-T2M3SOW-1AC32A-0,3M6,0E - 1164343



CHARX connect, Cable set, Cables with slip-on sleeves on 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, Generation 2

Cable set - EV-T2M3SOW-3AC20A-0,3M2,5E - 1164355



CHARX connect, Cable set, Cables with slip-on sleeves on 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, Generation 2

Cable set - EV-T2M3SOW-3AC32A-0,3M6,0E - 1164362



CHARX connect, Cable set, Cables with slip-on sleeves on 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, Generation 2

Cable set - EV-T2M3SOW-1AC32A-0,7M6,0E - 1164344



CHARX connect, Cable set, Cables with slip-on sleeves on 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, Generation 2

Set - EV-T2M3SO12-3P-BL-SET - 1268358

Accessories

Cable set - EV-T2M3SOW-3AC20A-0,7M2,5E - 1164361



CHARX connect, Cable set, Cables with slip-on sleeves on 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, Generation 2

Cable set - EV-T2M3SOW-3AC32A-0,7M6,0E - 1164365



CHARX connect, Cable set, Cables with slip-on sleeves on 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, Generation 2

Infrastructure socket outlet

Connector - EV-T2M3SL12-CONNECTOR - 1132718



CHARX connect, Connector, For controlling a 3-pos. locking actuator of an infrastructure charging socket, Single wires, Generation 1

Protective cover for Socket Outlet

Protective covers - EV-T2SOC-B - 1164293



CHARX connect, Protective covers, self-closing, rear protective cover screw connection, For attaching to infrastructure charging sockets, Type 2, IEC 62196-2, M5 thread, Generation 2 Basic, Embossed PHOENIX CONTACT logo

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Strain relief - EV-T2M3SO-CAP - 1202424



CHARX connect, Strain relief, Touch protection, For generation 2.0 infrastructure charging socket, For plugging onto the rear of the infrastructure charging socket, Type 2, IEC 62196-2, Generation 2

Set - EV-T2M3SO12-3P-BL-SET - 1268358

Accessories

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