

EV-T2M3SO12-4P-R-B-SET - Infrastructure charging socket



1532126

<https://www.phoenixcontact.com/us/products/1532126>

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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	1532126
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	EM01
Product key	XWBFLD
GTIN	4067923000858
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	520.5 g
Customs tariff number	85366990
Country of origin	DE

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Set consists of

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

1164300

<https://www.phoenixcontact.com/us/products/1164300>



EV-T2SOCR-B - Protective cover

1347421

<https://www.phoenixcontact.com/us/products/1347421>



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

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EV-T2M3SO-CAP - Protective cap

1202424

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



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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
Type	square circular circular
Design	with round protective cover
Charging standard	Type 2
Charging mode	Mode 3, Case B
Affixed logo	PHOENIX CONTACT logo
Customer variations	On request

Electrical properties

Charging power and current (AC charging (3-phase))

Type of charging current	AC 3-phase
Charging current	max. 32 A AC (3-phase)
Charging power	max. 26.6 kW (3-phase)
Charging power rating	max. 22 kW (32 A, 3-phase)
Rated voltage	480 V

Pin assignment (Leistungskontakte)

Note on the connection method	Connection via spade connector, separable and reconnectable
Number	5 (L1, L2, L3, N, PE)
Rated voltage	480 V AC
Rated current	max. 32 A (The infrastructure charging socket is designed for both 1-phase and 3-phase charging with charging currents of up to 32 A.)

Pin assignment (Signalkontakte)

Note on the connection method	Connection via spade connector, separable and reconnectable
Type of signal transmission	Pulse width modulation
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

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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 mm ²

Dimensions

Bore dimensions	
Width	60 mm
Height	60 mm

Infrastructure charging socket	
Width	75 mm
Height	91.71 mm
Depth	87.95 mm (with protective cap for strain relief and touch protection attached at the back, included in delivery and already mounted) 73.35 mm (without protective cap for strain relief and touch protection attached at the back, removal tool see accessories)

Protective cover	
Depth	22.9 mm
Diameter	109.2 mm

Protective cap	
Width	64 mm
Height	57 mm
Depth	24 mm
Dimensional drawing	
Max. wall thickness	max. 50.00 mm (Rear panel mounting, normative maximum specification for infrastructure plug) max. 30.00 mm (Rear panel mounting, normative maximum specification for infrastructure charging plug when using protective cover 1347421)

Material specifications

Color (Housing)	black (9005)
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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-core wires for AC and communication are available separately, see accessories

Single-core wires for locking actuator

Cable length	0.5 m
Cable structure	4 x 0.5 mm ²
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

Type of cover movement	Self-locking
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
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
Mounting hole diameter	7.00 mm (ø)
Fixing screws	M5 thread
Screws included in the scope of delivery	none

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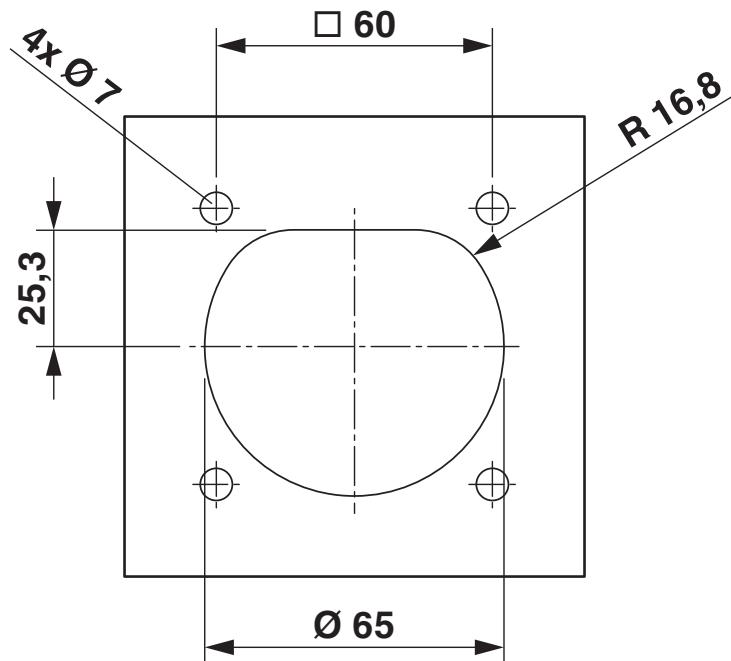


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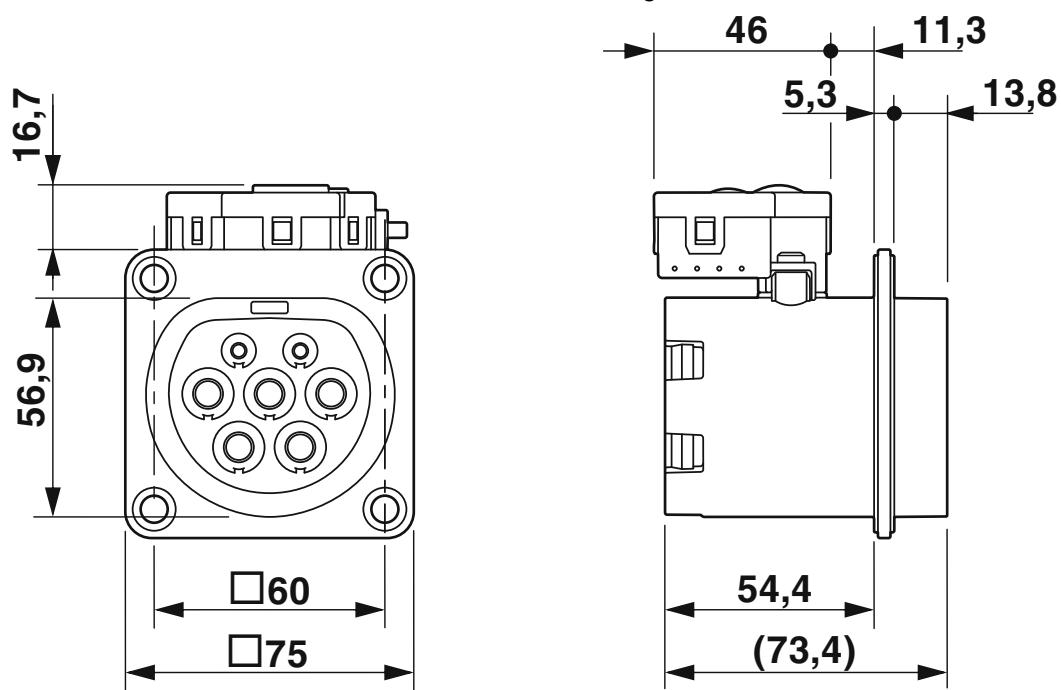
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Drawings

Dimensional drawing



Dimensional drawing



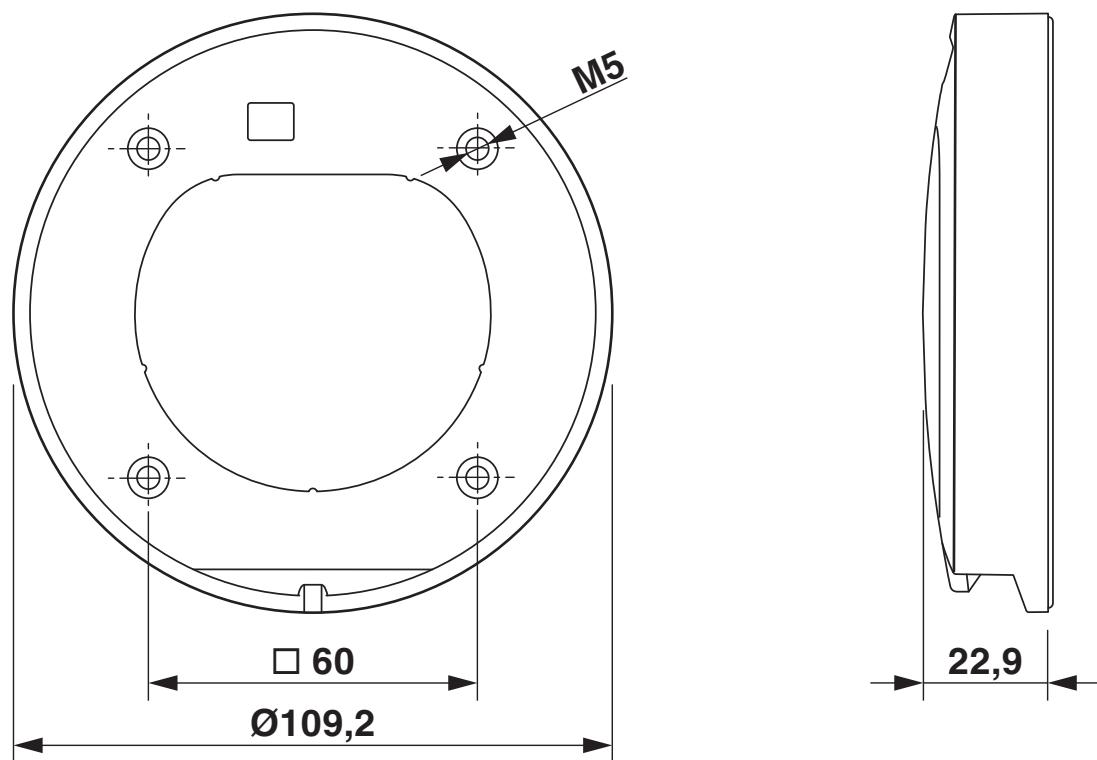
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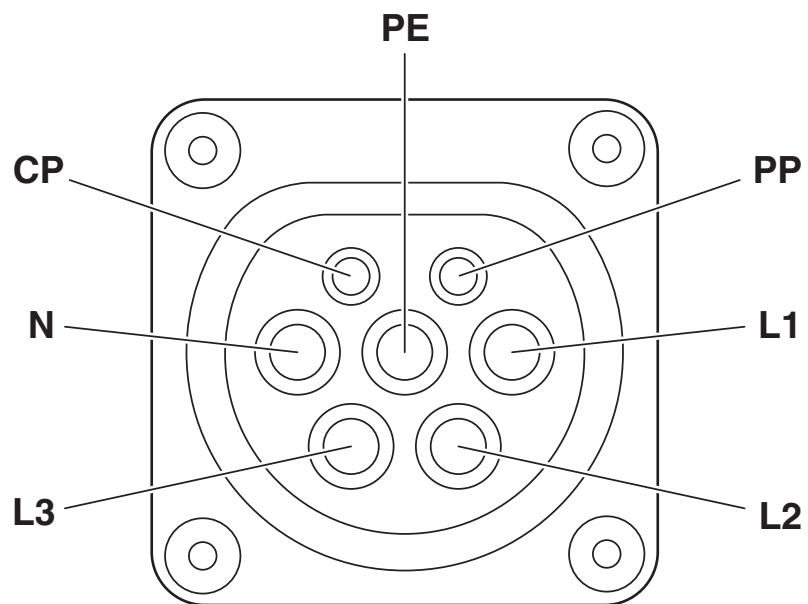
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Dimensional drawing



Connection diagram



Pin assignment of infrastructure charging socket

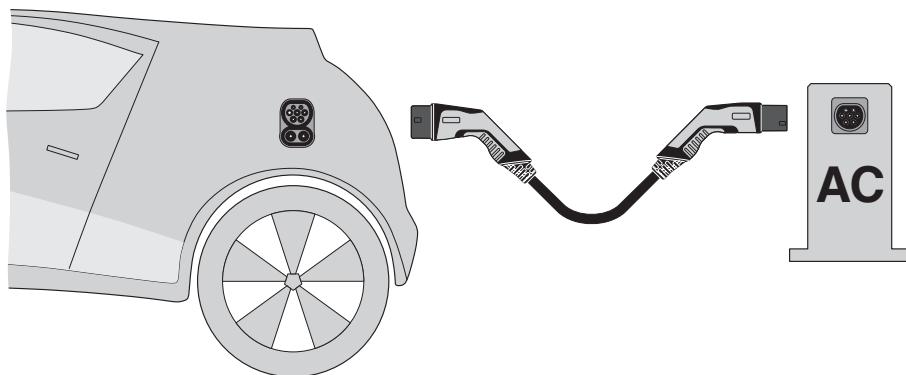
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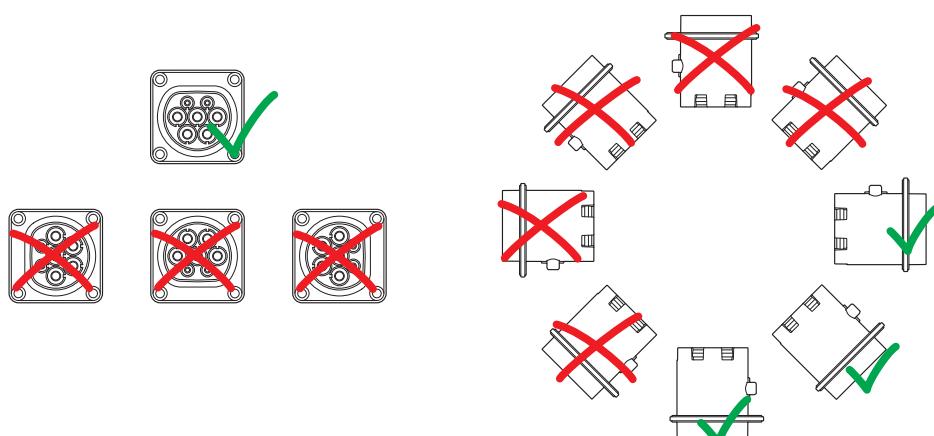
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Schematic diagram



Operating instructions

Schematic diagram

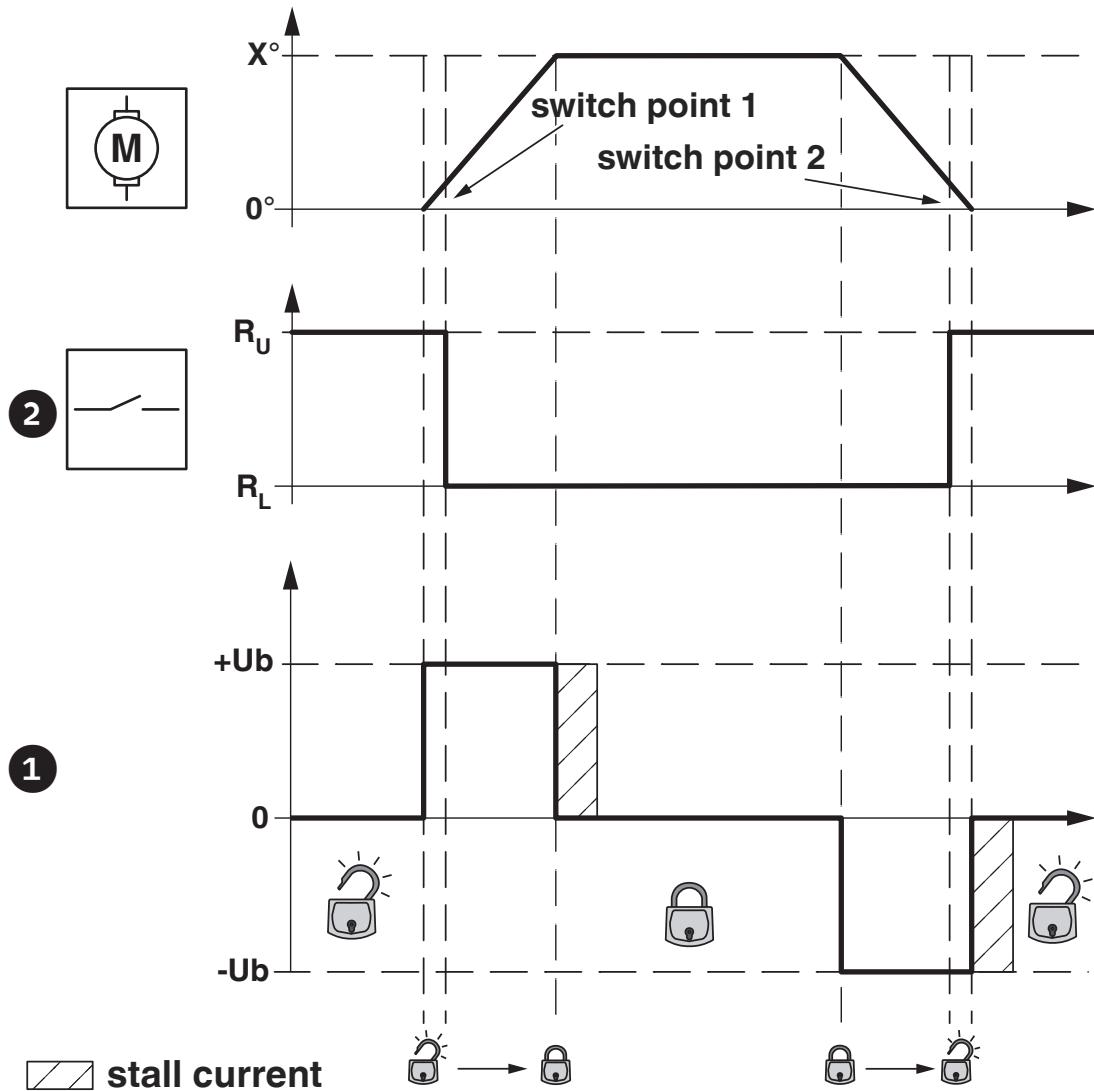


Installation positions

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Schematic diagram



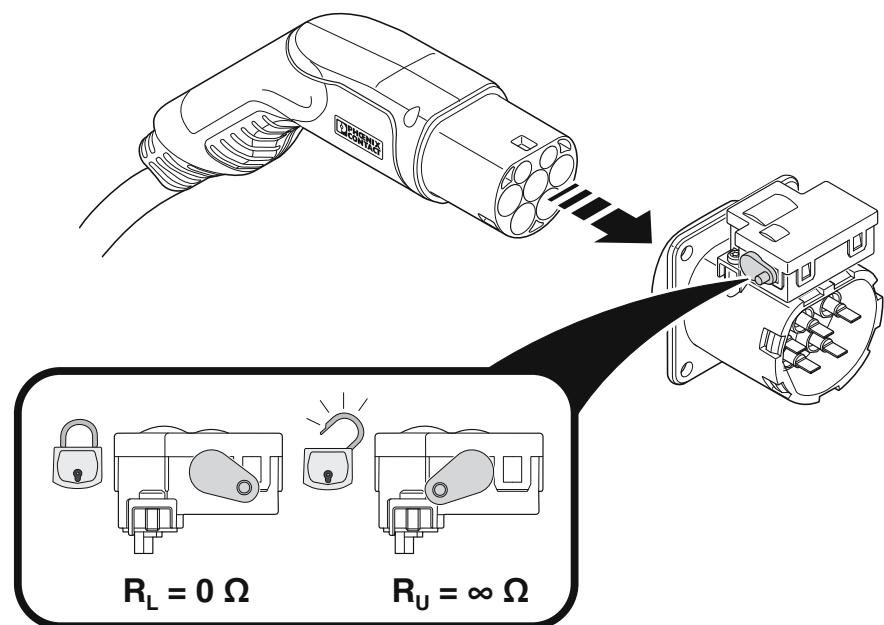
Locking states of the locking actuator

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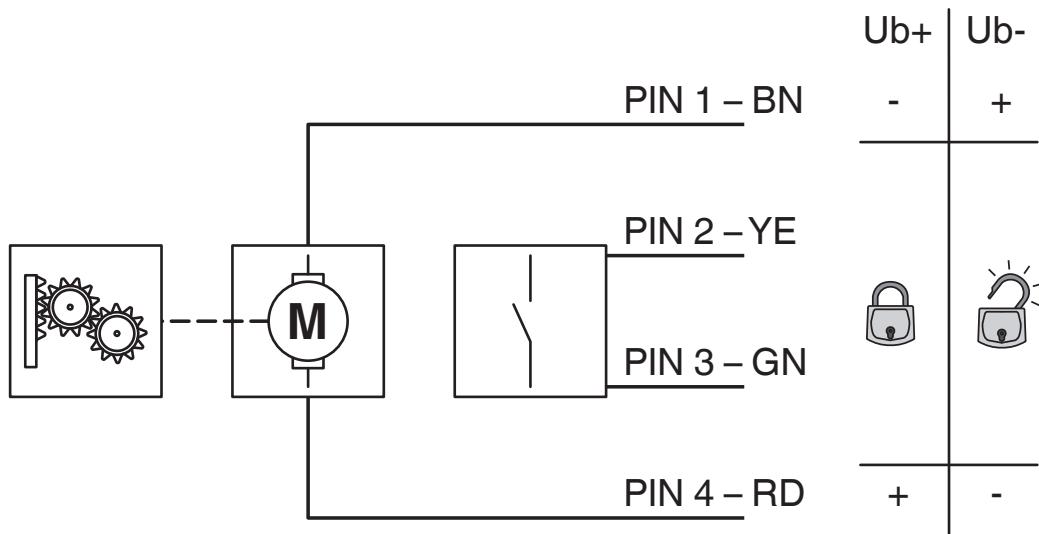
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Schematic diagram



Position of the emergency unlocking lever on the locking actuator

Block diagram



Block diagram of the locking actuator

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Classifications

ECLASS

ECLASS-13.0	27144792
ECLASS-15.0	27144792

ETIM

ETIM 9.0	EC002884
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UNSPSC

UNSPSC 21.0	39121500
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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	8065e8b3-b847-4e8c-8903-495597b037c3

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Accessories

EV-LABEL-C-SO - Label

1315521

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EV-T2SOC-B - Protective cover

1164293

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

1164343

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

1164355

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

1164362

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

1164344

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

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

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EV-T2M3SL12-CONNECTOR - Connector

1132718

<https://www.phoenixcontact.com/us/products/1132718>



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

EV-T2M3SO-CAP - Protective cap

1202424

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EV-T2M3SO-CAP-REMOVER - Removal tool

1286836

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CHARX SEC-1000 - AC charging controller

1139034

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CHARX SEC-3000 - AC charging controller

1139022

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CHARX SEC-3050 - AC charging controller

1139018

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CHARX SEC-3100 - AC charging controller

1139012

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CHARX SEC-3150 - AC charging controller

1138965

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EM-CP-PP-ETH - AC charging controller

2902802

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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

<https://www.phoenixcontact.com/us/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.

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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/us/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/us/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.

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

1180145

<https://www.phoenixcontact.com/us/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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