

1271835

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CHARX connect universal, Vehicle charging inlet, for charging electric vehicles (EV) with alternating current (AC), AC type 2, IEC 62196-2, 32 A / 250 V (AC), Single wires, length: 2 m, locking actuator: 24 V, 4-pos., Front and rear mounting, M6, housing: black, A protective cap is supplied as standard for the AC contacts.

## Product description

Vehicle charging inlet for charging with alternating current (AC), compatible with type 2 AC vehicle charging connectors (EVSE), for installation in electric vehicles (EV).

### Your advantages

- · Complete product range
- · Uniform, space-saving dimensions for the installation space and the screw connection points of all Phoenix Contact vehicle charging inlets
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- · Integrated interlock during charging
- · Manual emergency release of the locking actuator
- Protected and sealed against dirt and water with a high degree of protection

### Commercial data

Item number	1271835
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWCAIC
GTIN	4063151463816
Weight per piece (including packing)	1,435 g
Weight per piece (excluding packing)	1,435 g
Customs tariff number	85444290
Country of origin	PL



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## Technical data

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	General	A protective cap is supplied as standard for the AC contacts.
Pr	oduct properties	
	Product type	Vehicle charging inlet
	Product family	CHARX connect universal
	Application	for charging electric vehicles (EV) with alternating current (AC)
		for installation in electric vehicles (EV)
	Charging standard	AC type 2
	Charging mode	Mode 2, 3

## Electrical properties

Type of signal transmission	Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Note on the connection method	Crimp connection, cannot be disconnected
Insulation resistance	> 200 MΩ
Coding	4.7 kΩ (between PE and PP)
Temperature monitoring	AC contacts: PTC chain (DIN□EN□60738-1)
Type of charging current	AC single-phase
Charging power	8 kW
Charging current	32 A

### Power contact

Number	5 (L1, L2, L3, N, PE)
Rated voltage	250 V AC
Rated current	32 A AC

### Signal contact

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

### Temperature sensors (PTC chain)

Sensor type	PTC chain
Standards/regulations	DIN□EN 60738-1
Attachment point	Sensor for the AC contacts
Measuring range_resistance	790.00 Ω 1420.00 Ω
Resistance	max. 1280 $\Omega$ ±5 K
Recommended measured current	≤ 1 mA (U <sub>max</sub> = 16 V DC)
Ambient temperature	-40 °C 130 °C (Operation)

#### Locking actuator

Operating voltage	24 V
operating voltage	2-7 V



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Note number of positions	4-pos.
Position of the locking actuator	right-side
resident of the locking actuator	light-side
Locking actuator	
Operating voltage	24 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
Possible power supply range at the motor	22 V 26 V
Maximum voltage for locking detection	30 V
Typical motor current for locking	0.05 A
Reverse current of the motor	max. 0.5 A
Max. dwell time with reverse current	1 s
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
mensions	
Width	73 mm
Height	73 mm
Depth	73 mm
aterial specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
able/line	
Cable length	2 m
Cable type	Single wires
Single-core wires for AC	
Cable length	2 m
Cable structure	3 x 6 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	13.80 mm ±0.3 mm
Cable resistance	≤ 3.2 Ω/km
Single-core wire for PE	



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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
single-core wires for PTC temperature sensors	
Cable length	1 m
Cable structure	2 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BN/GY
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
Single-core wires for communication	
Cable length	1 m
Cable structure	2 x 0.5 mm²
Single wire, material	PVC
Single wire, color	ВК
	WH
External cable diameter	1.60 mm ±0.20 mm

# 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 (Vehicle charging inlet)	IP55 (plugged in; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products)
	IP67 (Inner area of vehicle charging inlet)
Ambient temperature (operation)	-40 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	4000 m (above sea level)

## Standards and regulations

#### Standards

Standards/regulations	IEC 62196-2



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## Mounting

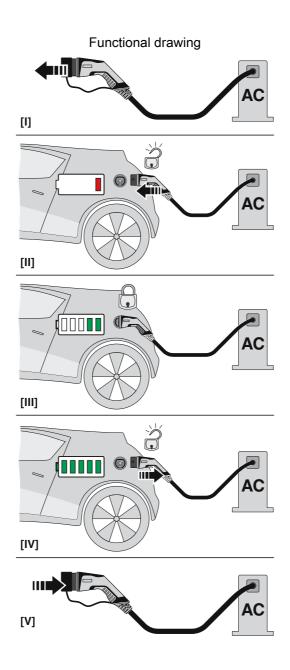
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.80 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



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# Drawings



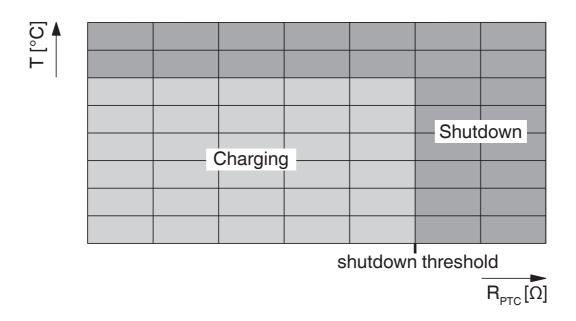
Operating instructions



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## Schematic diagram

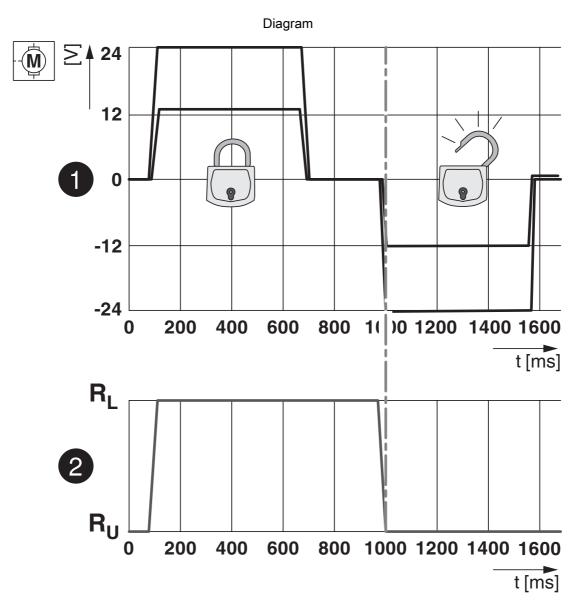


Temperature sensor technology resistance range at AC contacts



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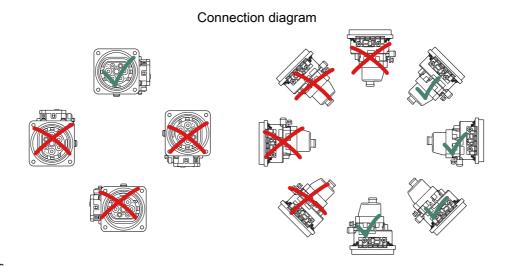


Locking states of the locking actuator



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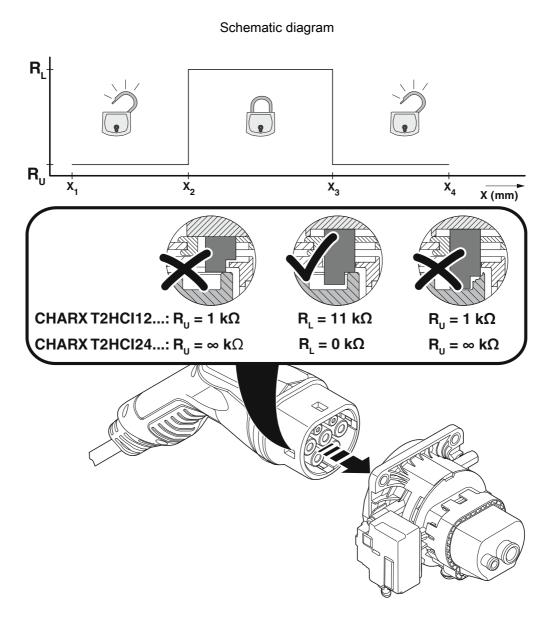


Installation positions



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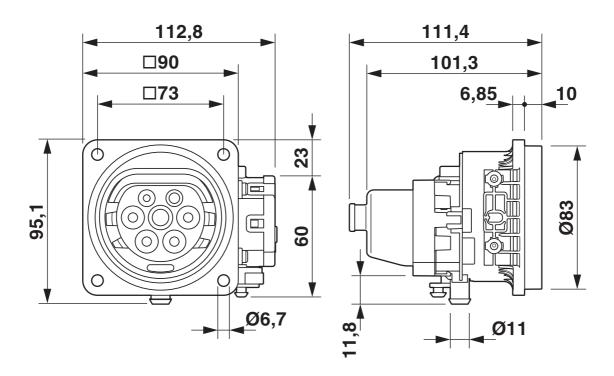
**Detection for Vehicle Connector** 



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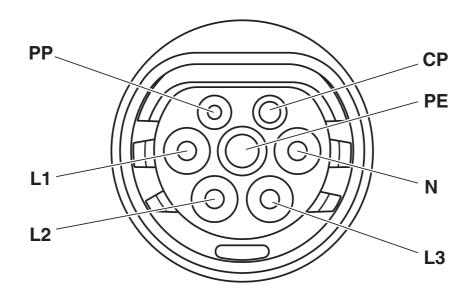
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## Dimensional drawing



Dimensional drawing

Connection diagram



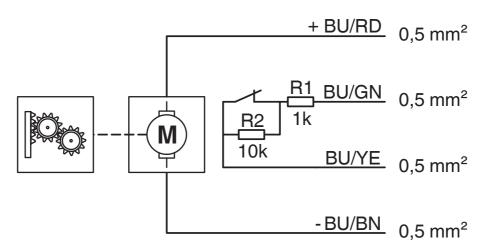
Pin assignment of vehicle charging inlets



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## Schematic diagram



Block diagram of the locking actuator



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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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# 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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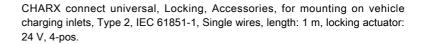
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#### Accessories

### CHARX T2HI-ELOCK24V - Locking

1331524

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