

1211206

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CHARX connect universal, Vehicle charging inlet, for charging with alternating current (AC) and with direct current (DC), CCS type 2, IEC 62196-2, IEC 62196-3, 250 A / 1000 V (DC), 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 DC and AC contacts.

## Product description

Vehicle charging inlet for charging with direct current (DC), compatible with type 2 CCS 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	1211206
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWCAID
GTIN	4063151284169
Weight per piece (including packing)	7.105 kg
Weight per piece (excluding packing)	6.97 kg
Customs tariff number	85444290
Country of origin	PL



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## Technical data

#### Notes

A protective cap is supplied as standard for the DC and AC contacts.
Vehicle charging inlet
CHARX connect universal
for charging with alternating current (AC) and with direct current (DC)
for installation in electric vehicles (EV)
Combined Charging System
CCS type 2
Mode 2, 3, 4

### **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 k $\Omega$ (between PE and PP)
Temperature measurement	DC contacts: 2x PT1000 (DIN EN 60751)
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
Type of charging current	DC
Charging power	250 kW
Charging current	250 A
Type of charging current	DC Boost Mode
Charging power	up to 500 kW (Boost Mode, depending on the ambient conditions. For detailed information, see the packing slip in the download area for this item.)
Charging current	up to 500 A (Boost Mode, depending on the ambient conditions For detailed information, see the packing slip in the download area for this item.)

#### Power contact

Number	5 (L1, N, PE, DC+, DC-)
Rated voltage	250 V AC
	1000 V DC
Rated current	32 A AC
	250 A DC

Signal contact



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Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
Femperature 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 Ω ±5 K
Recommended measured current	≤ 1 mA (U <sub>max</sub> = 16 V DC)
Ambient temperature	-40 °C 130 °C (Operation)
Femperature sensors (Pt 1000)	
Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts
active activator	
ocking actuator Operating voltage	24 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
	nginasido
ocking 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

Dimensions

Width	117.65 mm
Height	90 mm
Depth	117.65 mm

### Material specifications



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Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
ble/line	
Cable length	2 m
Cable type	Single wires
Single wire, cross section	95.00 mm <sup>2</sup>
Single-core wires for AC	
Cable length	2 m
Cable structure	2 x 6 mm <sup>2</sup>
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	12.60 mm ±0.2 mm
Cable resistance	≤ 3.2 Ω/km
Single-core wires for DC	
Cable length	2 m
Cable structure	2 x 95 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	20.60 mm ±0.3 mm
Cable resistance	≤ 0.196 Ω/km
Single-core wire for PE	
Cable length	2 m
Cable structure	1 x 25 mm²
Single wire, material	Silicone
Single wire, color	GN/YE
External cable diameter	8.60 mm ±0.1 mm
Cable resistance	≤ 0.743 Ω/km
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
Single-core wires for PTC temperature sensors	
Cable length	1 m
Cable structure	5 x 0,5 mm <sup>2</sup>
Single wire, material	PVC
Single wire, color	BN/GY



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	BN/YE/GN
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
single-core wires for Pt 1000 temperature sensors	
Cable length	1 m
Cable structure	3 x 0.5 mm <sup>2</sup>
Single wire, material	PVC
Single wire, color	BN
	GN
	YE
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 mm <sup>2</sup>
Single wire, material	PVC
Single wire, color	ВК
	WH
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 (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
	IEC 62196-3



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### Mounting

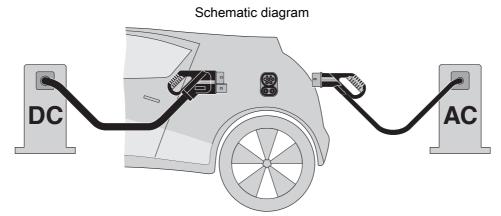
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



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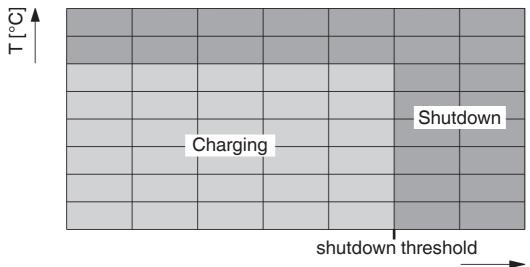
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## Drawings



The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

### Schematic diagram



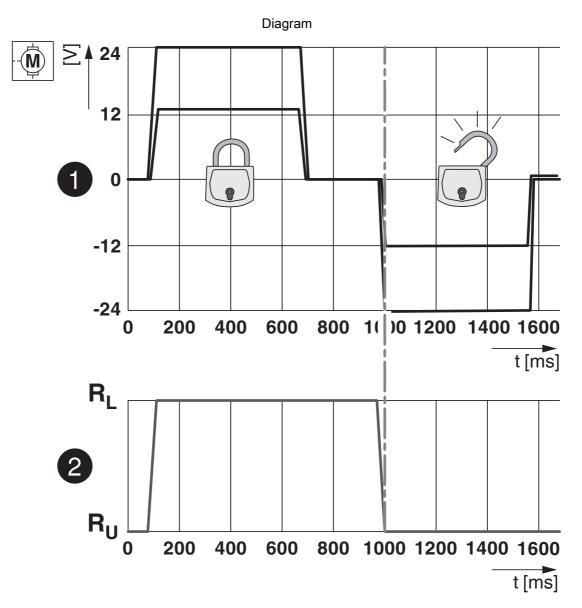


Temperature sensor technology resistance range at AC contacts



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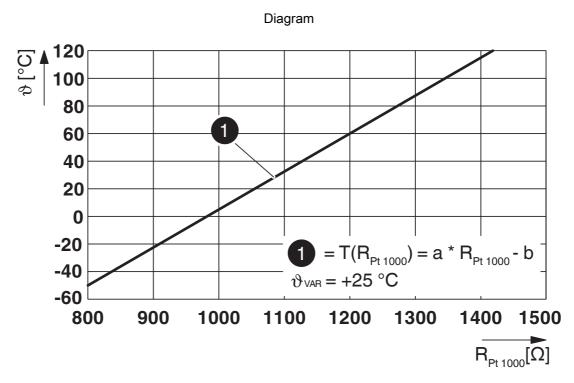


Locking states of the locking actuator

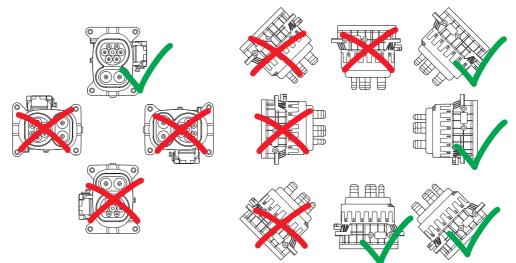


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Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts



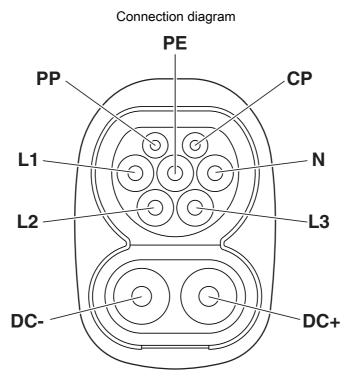
### Connection diagram

Installation positions



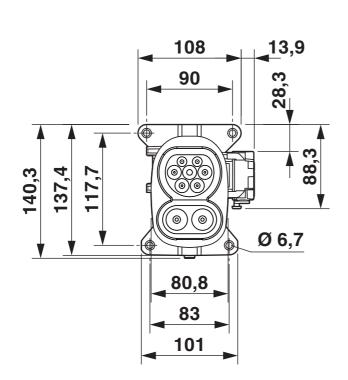
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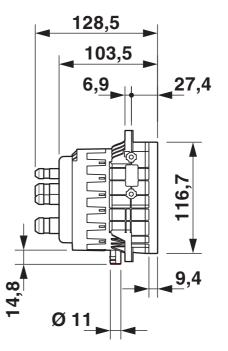
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Pin assignment of vehicle charging inlets

**Dimensional drawing** 



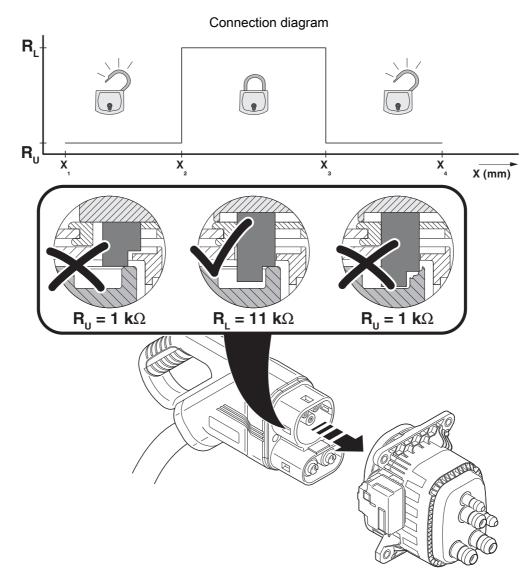


Dimensional drawing



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Detection for Vehicle Connector



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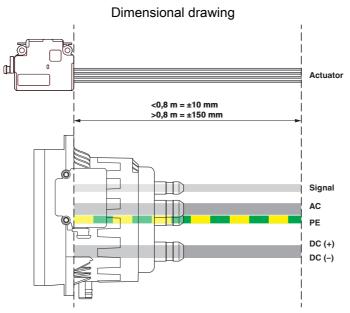
Schematic diagram [I] \_ Ш DC [11] (f ¢□□□∎∎| DC [111] 88 m DC [IV] [V]

Operating instructions



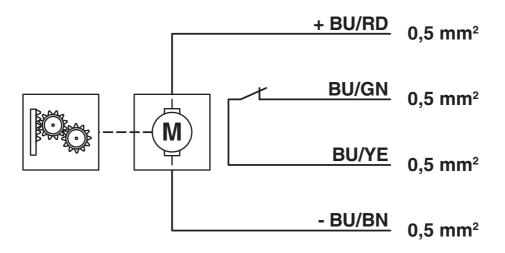
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Reference points for measuring the line length

Block 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
	DOTE 15571-58-1
	Dechlorane Plus
China RoHS	Environmentally Friendly Use Period = 10;



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## Accessories

CHARX T2HBI-DUST-COVER-SET - Protective cover

1305486 https://www.phoenixcontact.com/pc/products/1305486



CHARX connect universal, Protective cover, Accessories, for vehicle charging inlet, CCS type 2, Plug-on assembly, housing: black

#### CHARX T2HI-ELOCK24V - Locking

1331524

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CHARX connect universal, Locking, Accessories, for mounting on vehicle charging inlets, Type 2, IEC 61851-1, Single wires, length: 1 m, locking actuator: 24 V, 4-pos.

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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg +49 (0) 5235-3 00 info@phoenixcontact.com