

1211220

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CHARX connect universal, Vehicle charging inlet, for charging with direct current (DC), CCS type 2, IEC 62196-2, IEC 62196-3, 250 A / 1000 V (DC), 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 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	1211220
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	EM01
Product Key	XWCAID
GTIN	4063151284411
Weight per Piece (including packing)	6,483.666 g
Weight per Piece (excluding packing)	6,495 g
Customs tariff number	85444290
Country of origin	PL



A protective cap is supplied as standard for the DC contacts.

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Technical Data

General

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uct properties	
Product type	Vehicle charging inlet
Product family	CHARX connect universal
Application	for charging with direct current (DC)
	for installation in electric vehicles (EV)
ocking type	Locking in the inserted state with a locking mechanism
Fechnology	Combined Charging System
Charging standard	CCS type 2
Charging mode	Mode 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 kΩ (between PE and PP)
Temperature measurement	DC contacts: 2x PT1000 (DIN EN 60751)
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	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	250 A DC

Signal contact

- 3	
Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A

Temperature sensors (Pt 1000)

Sensor type Pt 1000



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Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts
Recommended measured current	≤ 1 mA (U _{max} = 16 V DC)
Coefficient	3850 ppm/K
Ambient temperature	-40 °C 130 °C
Locking actuator	
Operating voltage	24 V
Note number of positions	4-pos.
Position of the locking actuator	right-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	1s
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
laterial 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 DC Cable length	2 m
Cable structure	2 m 2 x 95 mm²
	Silicone
Single wire, material Single wire, color	OG
External cable diameter	20.6 mm ±0.3 mm
Cable resistance	≥0.6 mm ±0.3 mm ≤ 0.196 Ω/km
Capic resistance	≥ 0.130 MINI
Single-core wire for PE	



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Environmental and real-life conditions

Degree of protection (Vehicle charging inlet)

Ambient conditions

1 x 25 mm²
Silicone
GN/YE
8.6 mm ±0.1 mm
≤ 0.743 Ω/km
0.5 m
4 x 0.5 mm²
PVC
BU/RD, BU/GN, BU/YE, BU/BN
1.6 mm ±0.20 mm
≤ 37.1 Ω/m
1 m
3 x 0.5 mm ²
PVC
BN
GN
YE
1.6 mm ±0.20 mm
≤ 37.1 Ω/m
1 m
2 x 0.5 mm²
PVC
ВК
WH
1.6 mm ±0.20 mm
≤ 37.1 Ω/m

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-



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	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

Mounting

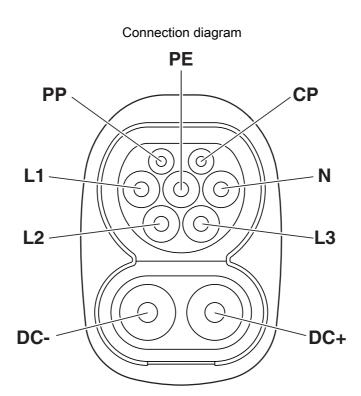
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



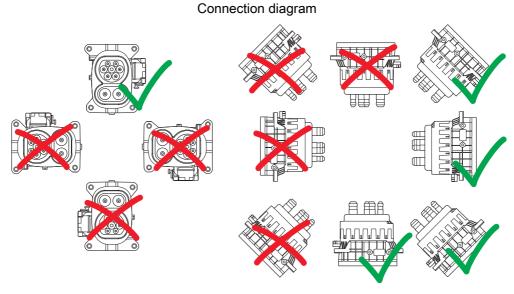
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Drawings



Pin assignment of vehicle charging inlets



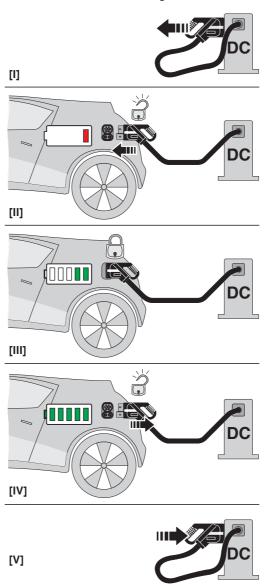
Installation positions



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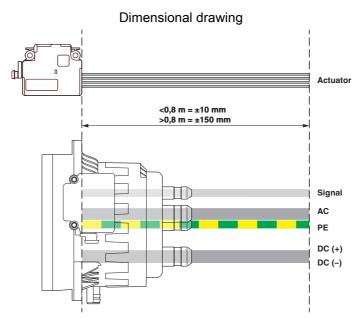


Operating instructions



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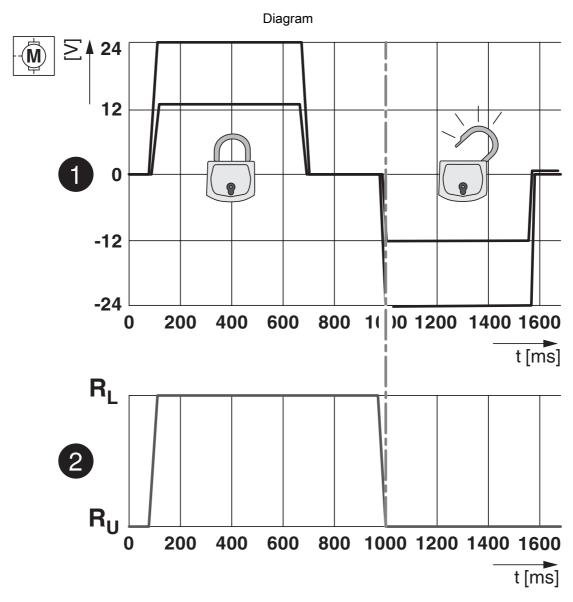


Reference points for measuring the line length



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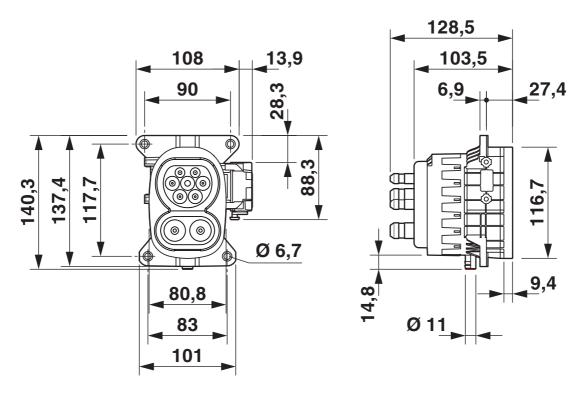
Locking states of the locking actuator



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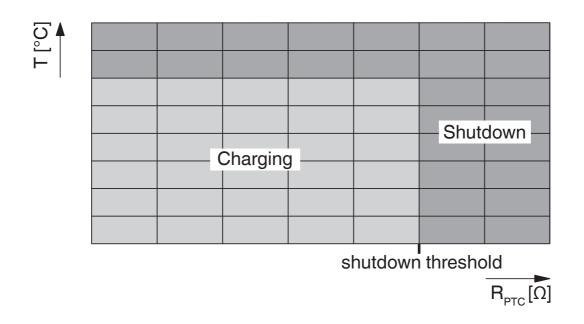
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Dimensional drawing



Dimensional drawing

Schematic diagram

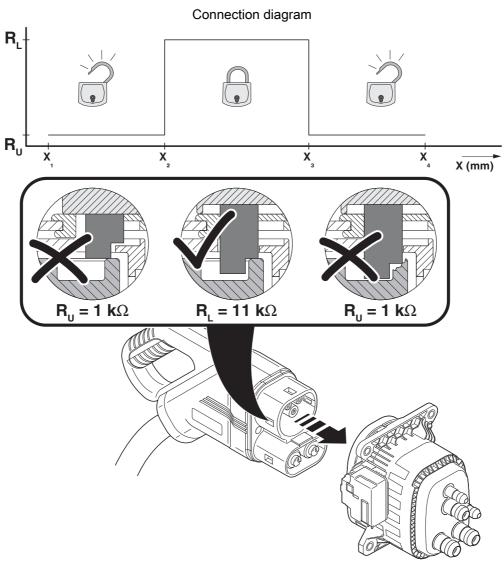


Temperature sensor technology resistance range at AC contacts

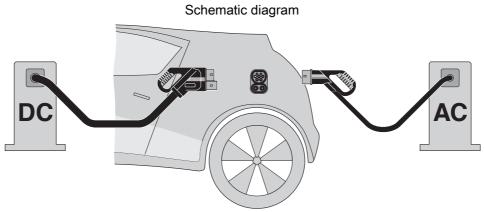


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Detection for Vehicle Connector

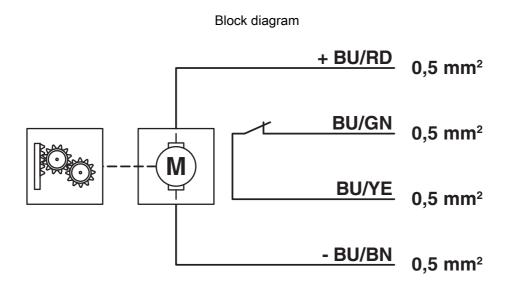


The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

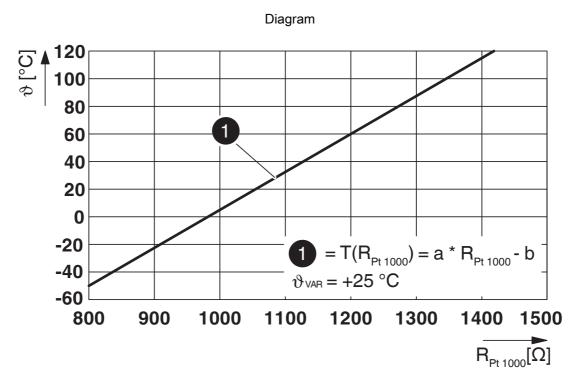


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Block diagram of the locking actuator



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



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Classifications

UNSPSC 21.0

ECLASS

4706
4706
4706
02898
4706

39121800



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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;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

CHARX T2HBI-DUST-COVER-SET - Protective cover

1305486

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

https://www.phoenixcontact.com/us/products/1331524



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 USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com