

1210900

https://www.phoenixcontact.com/us/products/1210900

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CHARX connect universal, Vehicle charging inlet, for charging with alternating current (AC) and with direct current (DC), CCS type 1, IEC 62196-2, IEC 62196-3, 200 A / 1000 V (DC), 80 A / 250 V (AC), Single wires, length: 2 m, locking actuator: 12 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 alternating current (AC) and direct current (DC), compatible with type 1 AC and 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	1210900
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	EM01
Product Key	XWCAIB
GTIN	4063151281663
Weight per Piece (including packing)	6,236 g
Weight per Piece (excluding packing)	6,110 g
Customs tariff number	85444290
Country of origin	PL



A protective cap is supplied as standard for the DC and AC

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Technical Data

General

Notes

Product properties	
Product type	Vehicle charging inlet
Product family	CHARX connect universal
Application	for charging with alternating current (AC) and with direct current (DC)
	for installation in electric vehicles (EV)
Locking type	Locking in the inserted state with a locking mechanism
Technology	Combined Charging System
Charging standard	CCS type 1
Charging mode	Mode 4

contacts.

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)
Temperature monitoring	AC contacts: PTC chain (DIN□EN□60738-1)
Type of charging current	AC single-phase
Charging power	20 kW
Charging current	80 A
Type of charging current	DC
Charging power	200 kW
Charging current	200 A
Type of charging current	DC Boost Mode
Charging power	up to 250 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 250 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	80 A AC
	200 A DC



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0 (00, 00)
2 (CP, CS)
30 V AC
2 A
PTC chain
DIN□EN 60738-1
Sensor for the AC contacts
790 Ω 1420 Ω
max. 1200 Ω ±5 K
-40 °C 130 °C (Operation)
Pt 1000
DIN EN 60751
2 sensors for the DC contacts
12 V
4-pos.
top center

12 V
4-pos.
top center
9 V 16 V
12 V
0.25 A
max. 1.5 A
1 s
600 ms
3 s
> 10000 load cycles
available
available available
available
available -40 °C 80 °C
available -40 °C 80 °C black (9005)
available -40 °C 80 °C black (9005) black (9005)
available -40 °C 80 °C black (9005)



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Cable/line

Cable length	2 m
Cable type	Single wires

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
	SAE J1772

Mounting

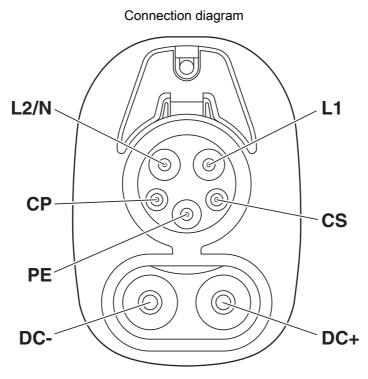
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



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Drawings

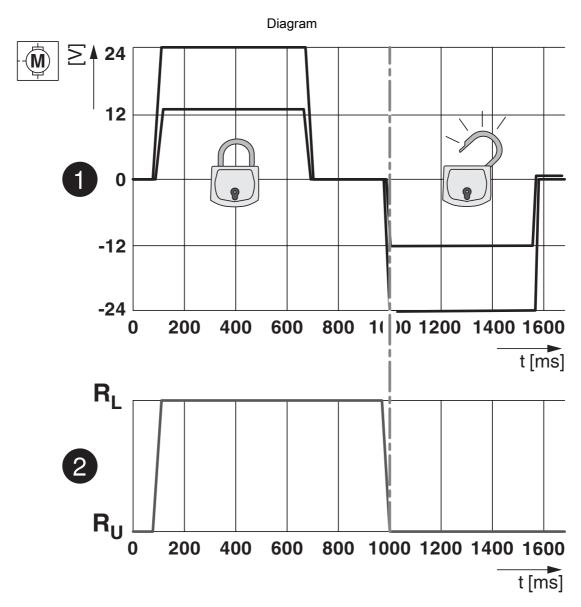


Pin assignment of vehicle charging inlets



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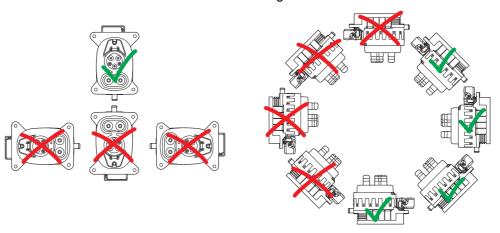
Locking states of the locking actuator



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Connection diagram



Installation positions

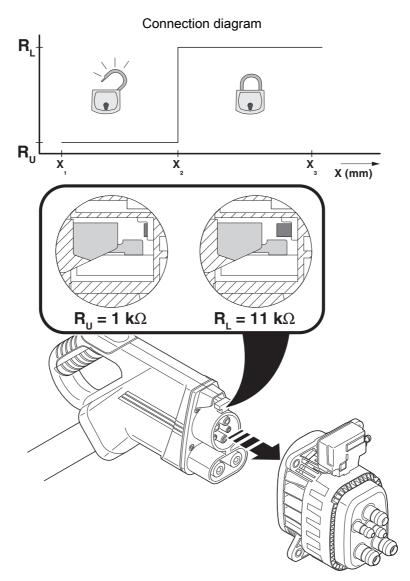
Dimensional drawing <0,8 m = ±10 mm >0,8 m = ±150 mm Signal AC PE DC (+) DC (-)

Reference points for measuring the line length

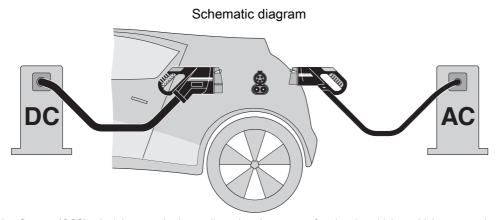


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Detection for Vehicle Connector



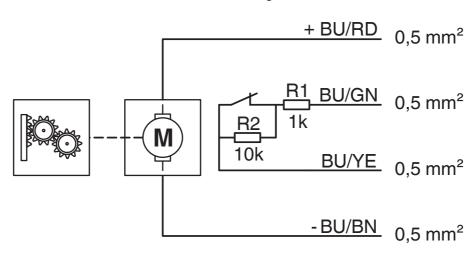
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



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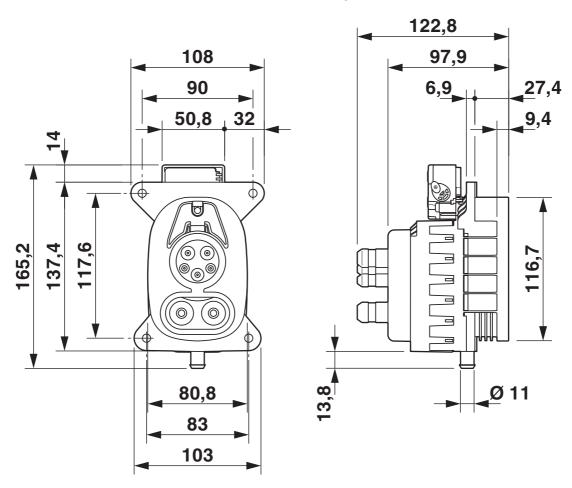
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Schematic diagram



Block diagram of the locking actuator

Dimensional drawing



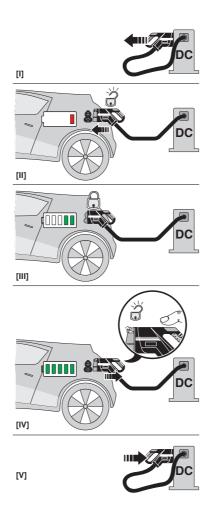
Dimensional drawing



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Schematic diagram



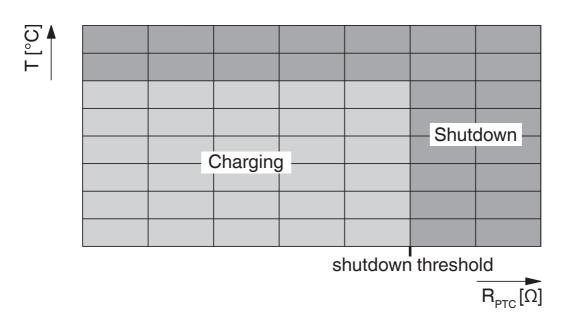
Operating instructions



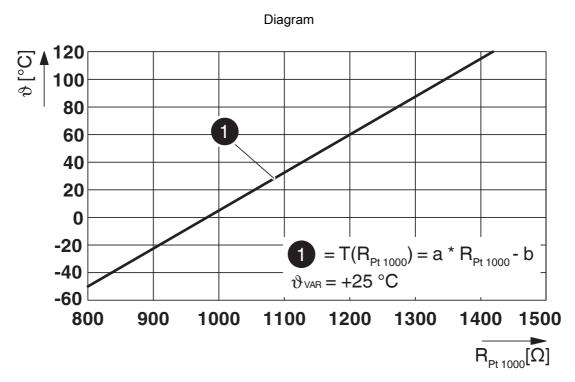
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Schematic diagram



Temperature sensor technology resistance range at AC contacts



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



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Approvals



cULus Recognized Approval ID: E473195-20210730



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Classifications

ECLASS

202.00			
	ECLASS-11.0	27144706	
	ECLASS-12.0	27144706	
	ECLASS-13.0	27144706	
ETIM			
	ETIM 8.0	EC002898	
UNSPSC			
	UNSPSC 21.0	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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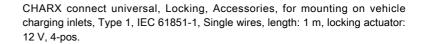
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Accessories

CHARX T1HI-ELOCK12V - Locking

1331528

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