

1270297

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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, 125 A / 1000 V (DC), 32 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 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	1270297
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWCAID
GTIN	4063151440213
Weight per piece (including packing)	4,229 g
Weight per piece (excluding packing)	4,229 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Notes

General	A protective cap is supplied as standard for the DC and AC contacts.
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)
Technology	Combined Charging System
Charging standard	CCS type 2
Charging mode	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 Ω (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	125 kW
Charging current	125 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	32 A AC
	125 A DC

Signal contact



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Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
emperature 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 _{max} = 16 V DC)
Ambient temperature	-40 °C 130 °C (Operation)
emperature sensors (Pt 1000)	
Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts
ocking actuator	1011
Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
ocking actuator	
Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
Possible power supply range at the motor	9 V 16 V
Maximum voltage for locking detection	12 V
Typical motor current for locking	0.25 A
Reverse current of the motor	max. 1.5 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

Dimensions

Width	117.65 mm
Height	90 mm
Depth	117.65 mm

Material specifications

Color (Housing) black (9005)



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Plastic
Silver
2 m
Single wires
35.00 mm ²
2 m
2 x 6 mm ²
Silicone
OG
12.60 mm ±0.2 mm
≤ 3.2 Ω/km
2 m
2 x 35 mm²
Silicone
OG
14.10 mm ±0.3 mm
≤ 0.527 Ω/km
2 m
1 x 25 mm ²
Silicone
GN/YE
8.60 mm ±0.1 mm
≤ 0.743 Ω/km
1.5 m
4 x 0.5 mm ²
PVC
BU/RD, BU/GN, BU/YE, BU/BN
1.60 mm ±0.20 mm
≤ 37.1 Ω/m
- 01.1 32/01
1 m
5 x 0,5 mm ²
PVC BN/GY



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	BN/YE/GN	
External cable diameter	1.60 mm ±0.20 mm	
Cable resistance	≤ 37.1 Ω/m	
ngle-core wires for Pt 1000 temperature sensors		
Cable length	1 m	
Cable structure	3 x 0.5 mm ²	
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 ²	
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

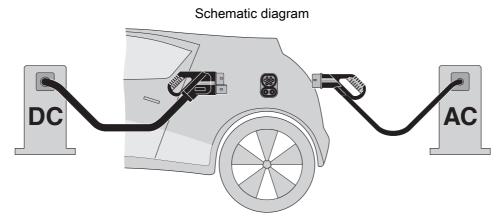
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.80 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



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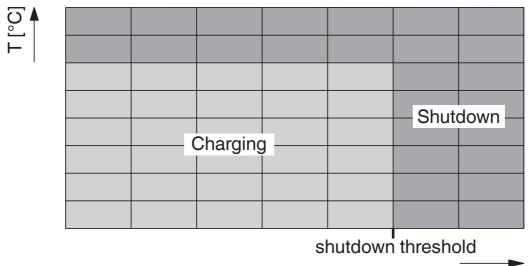
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Drawings



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



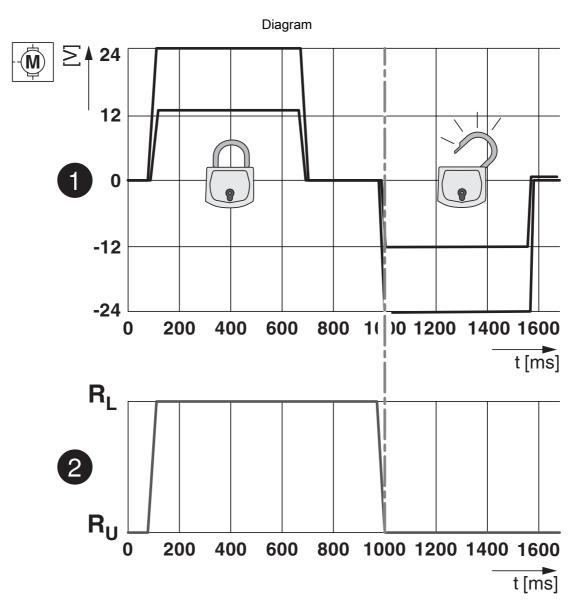


Temperature sensor technology resistance range at AC contacts



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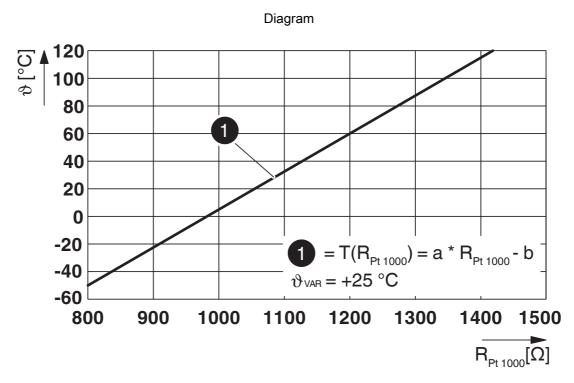


Locking states of the locking actuator

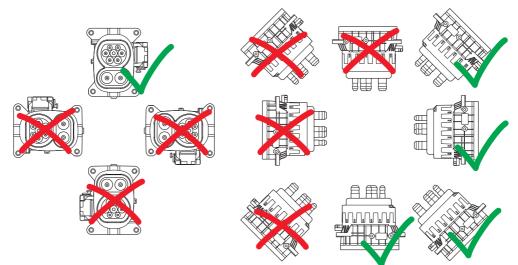


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Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts



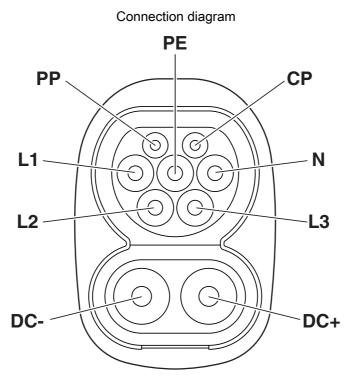
Connection diagram

Installation positions



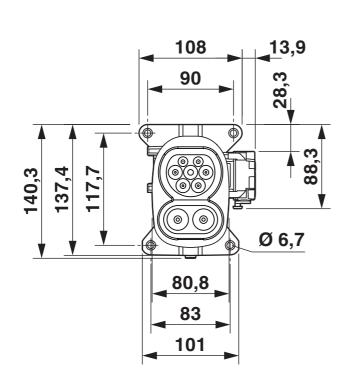
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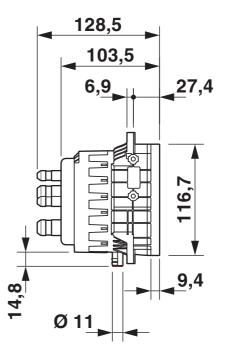
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Pin assignment of vehicle charging inlets

Dimensional drawing



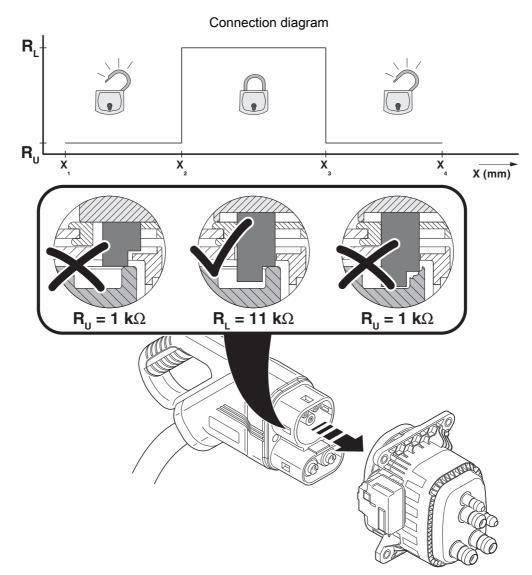


Dimensional drawing



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Detection for Vehicle Connector



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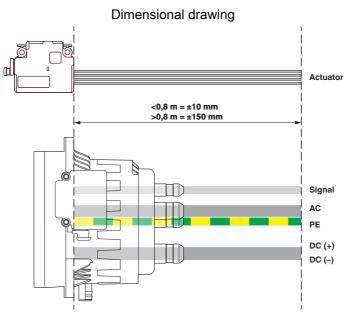
Schematic diagram [I] _ Ш DC [11] (f ¢□□□∎∎| DC [111] 88 m DC [IV] [V]

Operating instructions



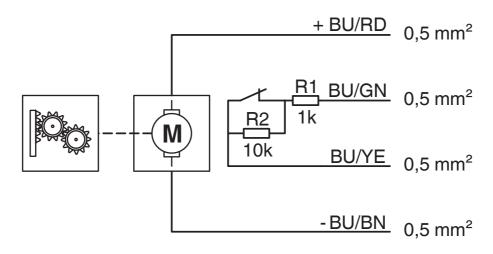
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Reference points for measuring the line length

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			
UN	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;



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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

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