

1211221

https://www.phoenixcontact.com/us/products/1211221

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



CHARX connect universal, Vehicle charging inlet, for charging with direct current (DC), CCS type 2, IEC 62196-2, IEC 62196-3, 200 A / 1000 V (DC), 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 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	1211221
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAID
GTIN	4063151283858
Weight per piece (including packing)	5,302 g
Weight per piece (excluding packing)	5,180 g
Customs tariff number	85444290
Country of origin	PL



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

1211221

https://www.phoenixcontact.com/us/products/1211221

Technical data

General

Note	9
------	---

Product properties			
	Product type	Vehicle charging inlet	
	Product family	CHARX connect universal	
	Application	for charging with direct current (DC)	
		for installation in electric vehicles (EV)	
	Technology	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	200 kW
Charging current	200 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	

Power contact

Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	200 A DC

Signal contact

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

Temperature sensors (Pt 1000)

Sensor type	Pt 1000
Standards/regulations	DIN EN 60751



1211221

https://www.phoenixcontact.com/us/products/1211221

Attachment point	2 sensors for the DC contacts
Locking actuator	12 V
Operating voltage	
Note number of positions	4-pos.
Position of the locking actuator	right-side
Locking 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
Ambient temperature (operation)	-40 °C 80 °C
aterial specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
able/line	
	0
Cable length	2 m
Cable type	Single wires
Single-core wires for DC	
Cable length	2 m
Cable structure	2 x 70 mm ²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	17.9 mm ±0.3 mm
Cable resistance	≤ 0.259 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



1211221

https://www.phoenixcontact.com/us/products/1211221

External cable diameter	8.6 mm ±0.1 mm
Cable resistance	≤ 0.743 Ω/km
Single-core wires for locking actuator	
Cable length	1.5 m
Cable structure	4 x 0.5 mm ²
Single wire, material	PVC
Single wire, color	BU/RD, BU/GN, BU/YE, BU/BN
External cable diameter	1.6 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
Cable resistance	2 J7.1 W/III
Single-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	1.6 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	1.6 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
echanical properties	
Mechanical data	
	> 10000
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



1211221

https://www.phoenixcontact.com/us/products/1211221

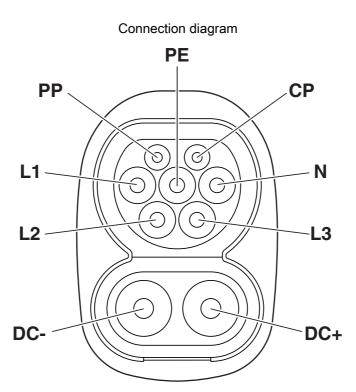
Altitude	4000 m (above sea level)	
tandards and regulations		
Standards		
Standards/regulations	IEC 62196-2	
	IEC 62196-3	
Mounting		
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)	
Mounting hole diameter	6.70 mm (ø)	
Fixing screws	M6	
Screws included in the scope of delivery	none	



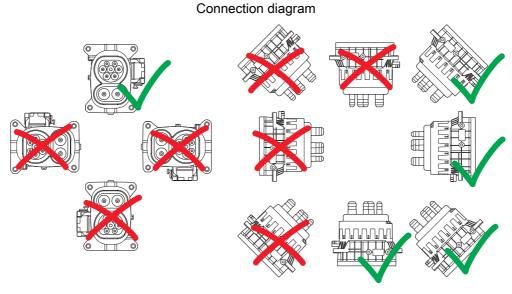
1211221

https://www.phoenixcontact.com/us/products/1211221

Drawings



Pin assignment of vehicle charging inlets

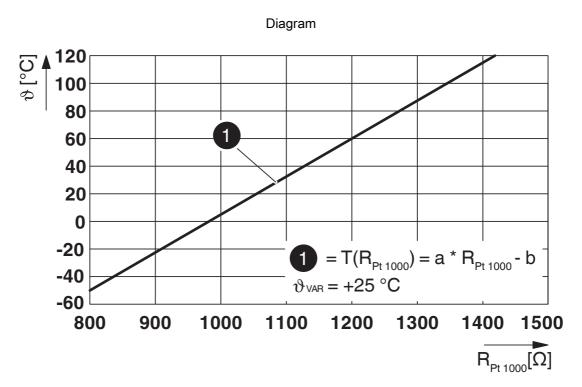


Installation positions



1211221

https://www.phoenixcontact.com/us/products/1211221

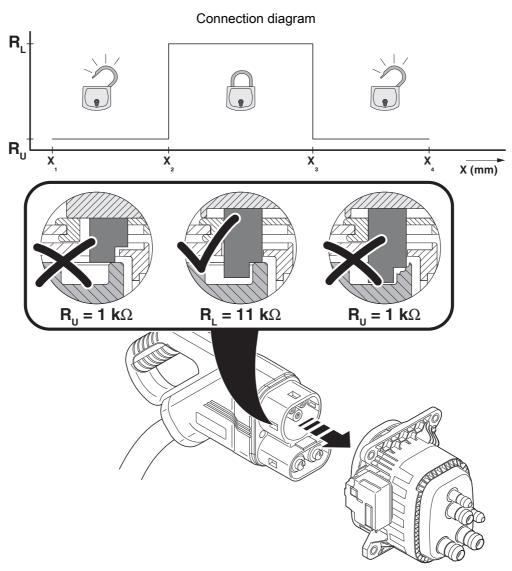


Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts

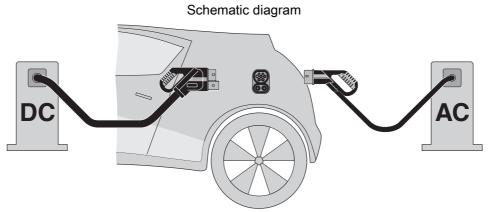


1211221

https://www.phoenixcontact.com/us/products/1211221



Detection for Vehicle Connector



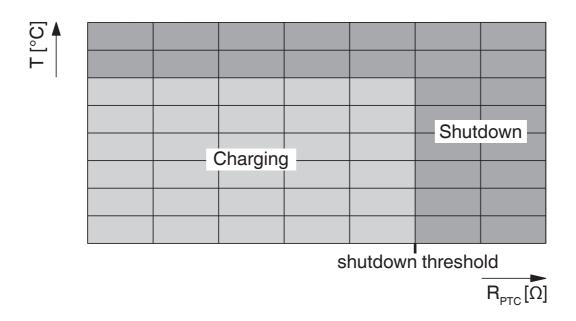
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



1211221

https://www.phoenixcontact.com/us/products/1211221

Schematic diagram



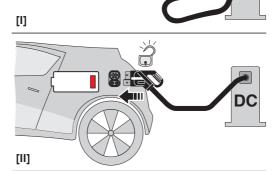
Temperature sensor technology resistance range at AC contacts

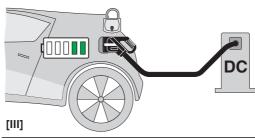


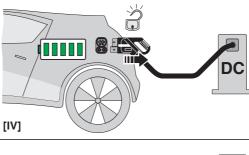
1211221

https://www.phoenixcontact.com/us/products/1211221

Schematic diagram









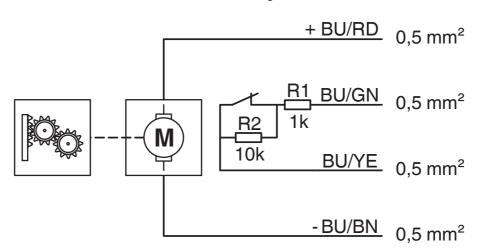
Operating instructions



1211221

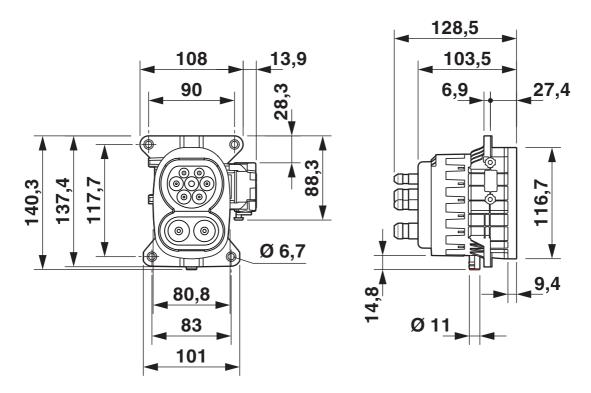
https://www.phoenixcontact.com/us/products/1211221

Schematic diagram



Block diagram of the locking actuator

Dimensional drawing

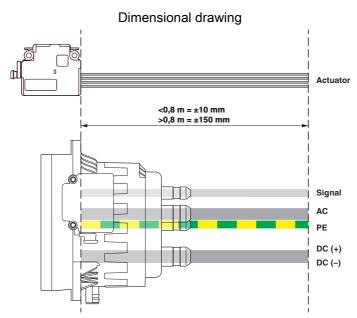


Dimensional drawing



1211221

https://www.phoenixcontact.com/us/products/1211221

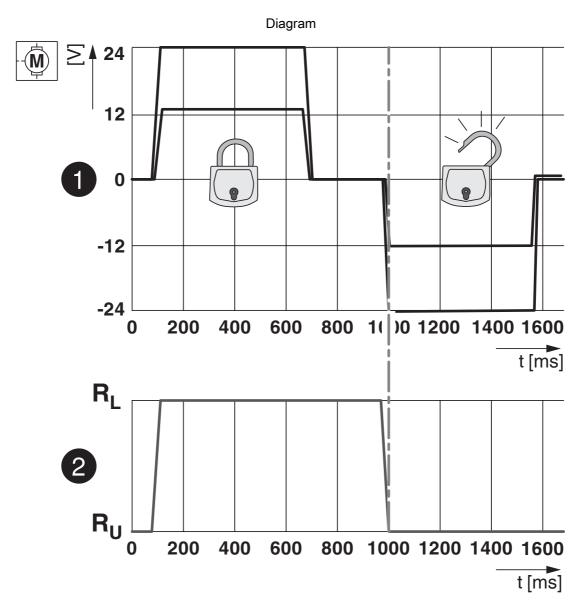


Reference points for measuring the line length



1211221

https://www.phoenixcontact.com/us/products/1211221



Locking states of the locking actuator



1211221

https://www.phoenixcontact.com/us/products/1211221

Classifications

UNSPSC 21.0

ECLASS

E	CLASS-11.0	27144706
E	CLASS-12.0	27144706
E	CLASS-13.0	27144706
ETIM		
E.	8.0 MIT	EC002898
UNSF	PSC	

39121800



1211221

https://www.phoenixcontact.com/us/products/1211221

Environmental product compliance

REACh SVHC	Lead 7439-92-1
	DOTE 15571-58-1
	Dechlorane Plus
China RoHS	Environmentally Friendly Use Period = 10;



1211221

https://www.phoenixcontact.com/us/products/1211221

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-ELOCK12V - Locking

1331532

https://www.phoenixcontact.com/us/products/1331532



CHARX connect universal, Locking, Accessories, for mounting on vehicle charging inlets, Type 2, IEC 61851-1, Single wires, length: 1 m, locking actuator: 12 V, 4-pos.

Phoenix Contact 2023 © - all rights reserved https://www.phoenixcontact.com

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