

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



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Technical data

General	A protective cap is supplied as standard for the DC contacts.		
Product properties			
Product type	Vehicle charging inlet		
Product family	CHARX connect universal		
Application Technology	for charging with direct current (DC)		
	for installation in electric vehicles (EV)		
	Combined Charging System		
Charging standard	CCS type 2		
Charging mode	Mode 4		
Data management status			
Article revision	04		

Electrical properties

Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Crimp connection, cannot be disconnected
> 200 MΩ
4.7 kΩ (between PE and PP)
DC contacts: 2x PT1000 (DIN EN 60751)
DC
250 kW
250 A
DC Boost Mode
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.)
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.)

Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	250 A DC

Signal contact

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

Temperature sensors (Pt 1000)



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Sensor type	Pt 1000
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	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
Бери	117.00 11111
Material specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
Cable/line	
Cable length	2 m
Cable type	Single wires
Single-core wires for DC	
Cable length	2 m
Cable structure	2 x 95 mm²



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Insertion force

Withdrawal force

o	011
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 Pt 1000 temperature sensors Cable length	1 m
Cable structure	3 x 0.5 mm²
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 mm²
Single wire, material	PVC
Single wire, color	вк
	WH
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
chanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 10000

< 100 N

< 100 N



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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 40 °C (60°C, maximum (current reduction required, observe the DC contact temperature limit value of 90°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

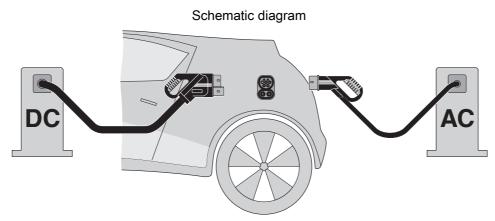
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Thread type	()
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



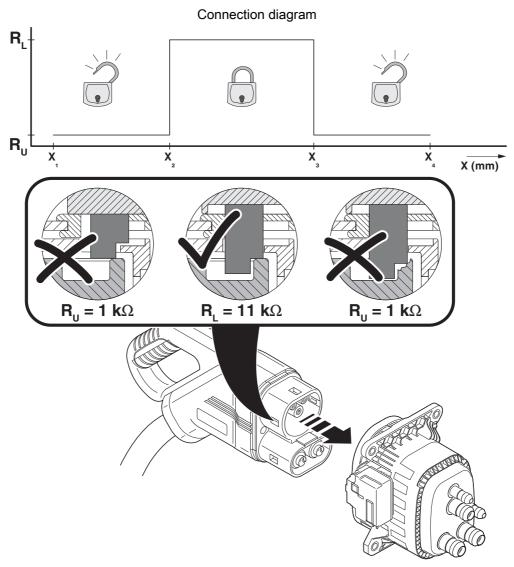
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Drawings



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.

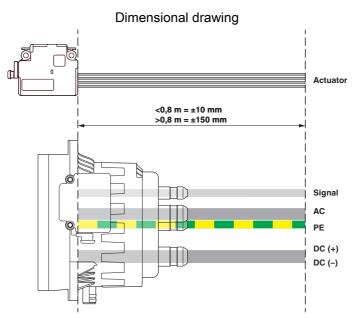


Detection for Vehicle Connector

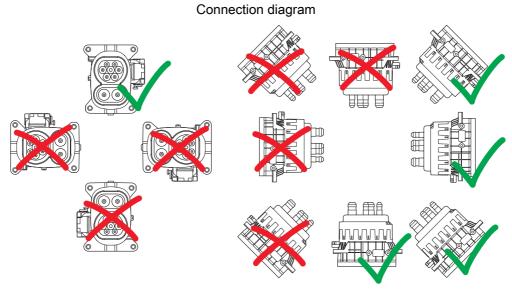


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Reference points for measuring the line length



Installation positions

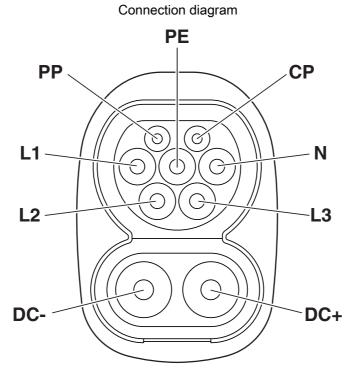


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#BU/RD 0,5 mm² BU/GN 0,5 mm² BU/YE 0,5 mm² - BU/BN 0,5 mm²

Block diagram of the locking actuator



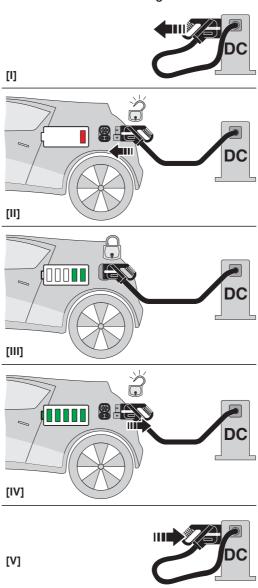
Pin assignment of vehicle charging inlets



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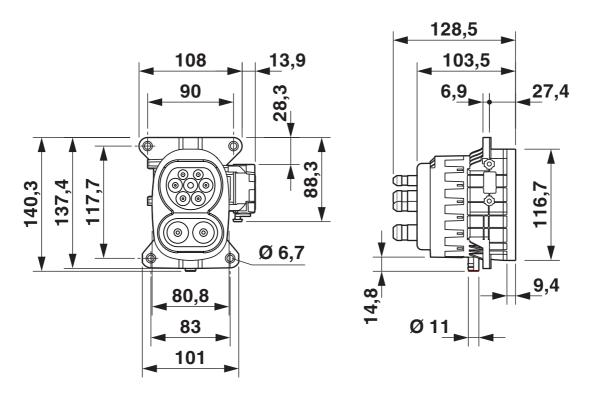
Operating instructions



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Dimensional drawing

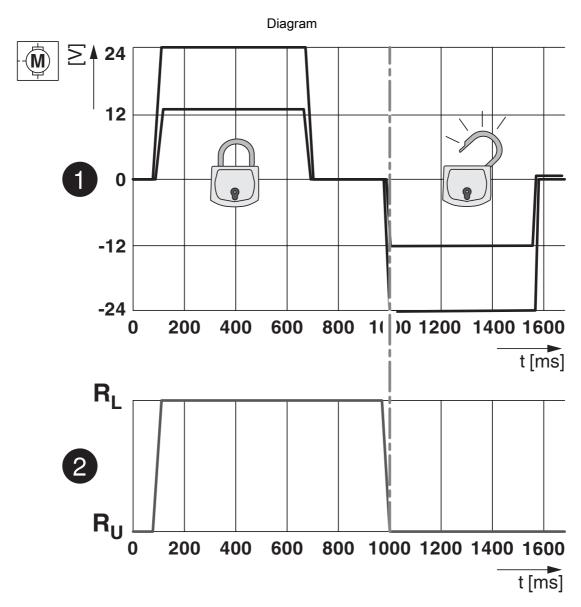


Dimensional drawing



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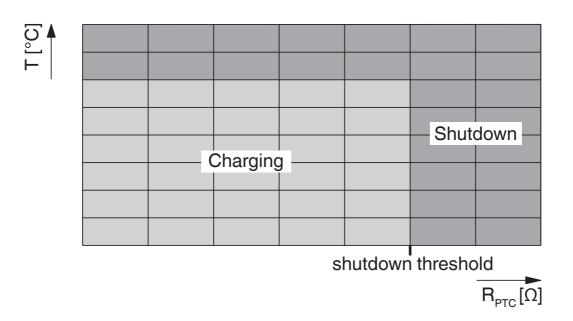
Locking states of the locking actuator



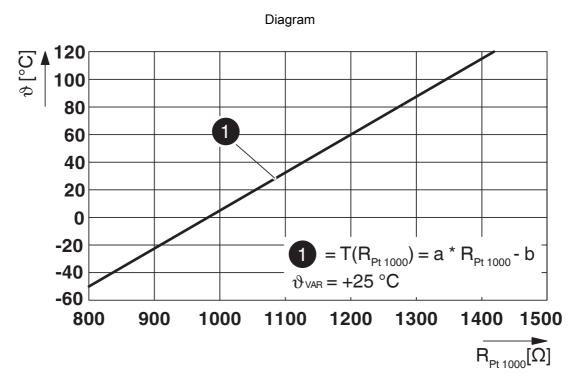
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Schematic diagram



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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Classifications

ECLASS

	ECLASS-11.0	27144706		
	ECLASS-12.0	27144706		
	ECLASS-13.0	27144706		
ΕT	ETIM			
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	ETIM 9.0	EC002898		
UNSPSC				
	UNSPSC 21.0	39121800		



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-10
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)(CAS: 15571-58-1)
	Lead(CAS: 7439-92-1)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	1766a9b5-19c4-44f7-83ab-795829c77c4b

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