

1211221

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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, 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



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Technical data

	General	A protective cap is supplied as standard for the DC contacts.			
Pro	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			
	ata management status				
	Article revision	04			

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.)

Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	200 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
Locking actuator	
Operating voltage	12 V
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 40 °C
imensions	
Width	117.65 mm
Height	90 mm
Depth	117.65 mm
aterial 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 x 70 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	17.90 mm ±0.3 mm
	= 5.0 11111



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Cable resistance	≤ 0.259 Ω/km
ngle-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
ngle-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	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
Cable length	1 m
	1 m
Cable length Cable structure Single wire material	3 x 0.5 mm ²
Cable structure Single wire, material	3 x 0.5 mm² PVC
Cable structure	3 x 0.5 mm² PVC BN
Cable structure Single wire, material	3 x 0.5 mm² PVC BN GN
Cable structure Single wire, material	3 x 0.5 mm² PVC BN
Cable structure Single wire, material Single wire, color	3 x 0.5 mm² PVC BN GN YE
Cable structure Single wire, material Single wire, color External cable diameter Cable resistance	3 x 0.5 mm ² PVC BN GN YE 1.60 mm ±0.20 mm
Cable structure Single wire, material Single wire, color External cable diameter Cable resistance ngle-core wires for communication	3 x 0.5 mm ² PVC BN GN YE 1.60 mm ±0.20 mm
Cable structure Single wire, material Single wire, color External cable diameter Cable resistance ngle-core wires for communication Cable length	$3 \times 0.5 \text{ mm}^2$ PVC BN GN YE 1.60 mm ±0.20 mm ≤ 37.1 Ω/m
Cable structure Single wire, material Single wire, color External cable diameter Cable resistance ngle-core wires for communication	3 x 0.5 mm ² PVC BN GN YE 1.60 mm ±0.20 mm ≤ 37.1 Ω/m
Cable structure Single wire, material Single wire, color External cable diameter Cable resistance Ingle-core wires for communication Cable length Cable structure	$3 \times 0.5 \text{ mm}^2$ PVC BN GN YE 1.60 mm ±0.20 mm ≤ 37.1 Ω/m
Cable structure Single wire, material Single wire, color External cable diameter Cable resistance Ingle-core wires for communication Cable length Cable structure Single wire, material	$3 \times 0.5 \text{ mm}^2$ PVC BN GN YE 1.60 mm ±0.20 mm ≤ 37.1 Ω/m 1 m 2 x 0.5 mm² PVC
Cable structure Single wire, material Single wire, color External cable diameter Cable resistance Ingle-core wires for communication Cable length Cable structure Single wire, material	$3 \times 0.5 \text{ mm}^2$ PVC BN GN YE 1.60 mm ±0.20 mm ≤ 37.1 Ω/m 1 m 2 x 0.5 mm² PVC BK

> 10000

< 100 N

< 100 N

Environmental and real-life conditions

Insertion/withdrawal cycles

Ambient conditions

Mechanical data

Insertion force

Withdrawal force



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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)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none

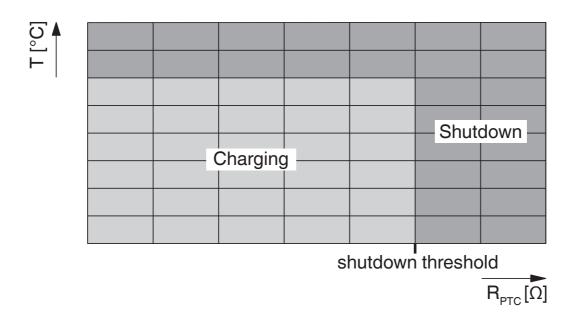


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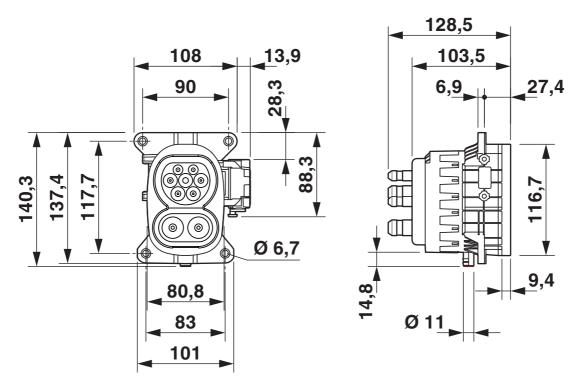
Drawings

Schematic diagram



Temperature sensor technology resistance range at AC contacts

Dimensional drawing

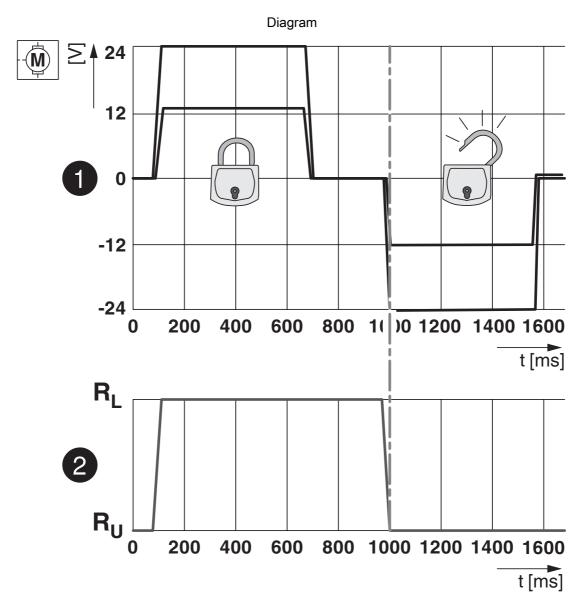


Dimensional drawing

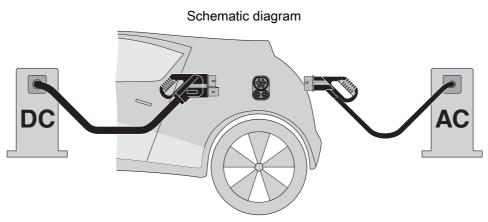


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Locking states of the locking actuator

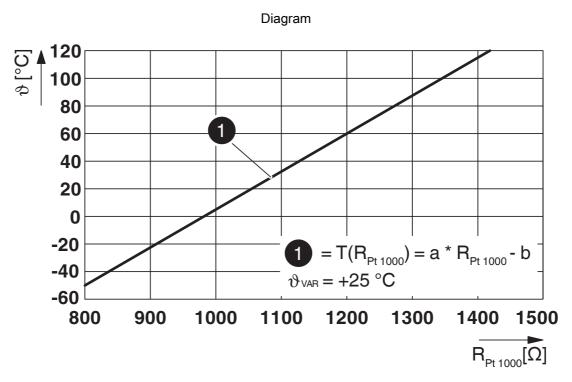


The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

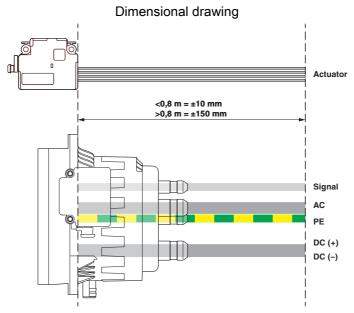


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Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts

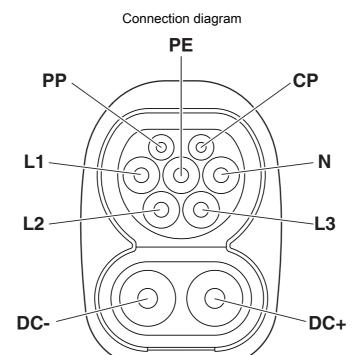


Reference points for measuring the line length



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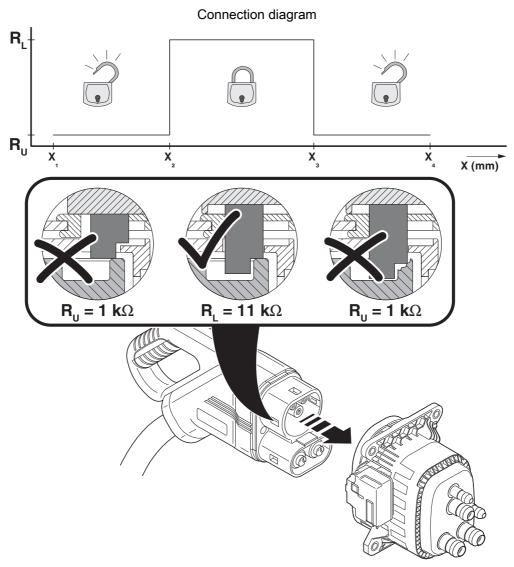


Pin assignment of vehicle charging inlets



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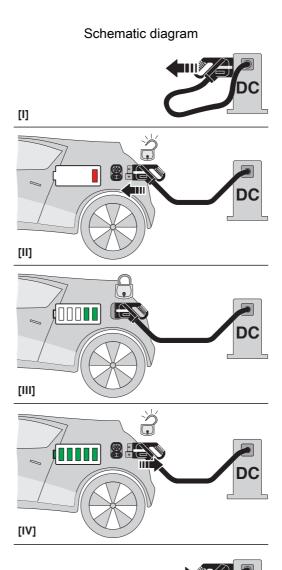
Detection for Vehicle Connector

[V]



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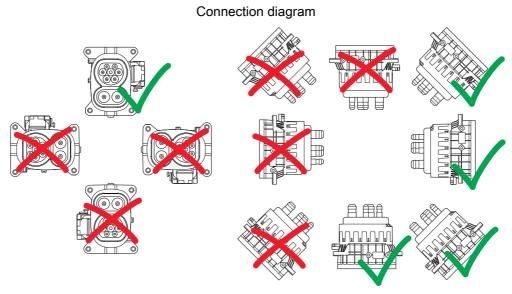


Operating instructions



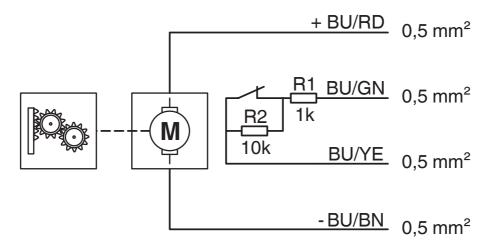
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Installation positions

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	

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	93e836e0-0edb-4cb1-96da-32635295ae03

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