

1211217

https://www.phoenixcontact.com/us/products/1211217

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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: 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	1211217
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAID
GTIN	4063151283933
Weight per piece (including packing)	5,256 g
Weight per piece (excluding packing)	5,210 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 contacts.
luct 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
trical 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 $\Omega$ (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 condition For detailed information, see the packing slip in the download area for this item.)
ower contact	
Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	200 A DC
gnal contact	
Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
emperature sensors (Pt 1000)	
Sensor type	Pt 1000
Standards/regulations	DIN EN 60751



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Cable resistance

Attachment point	2 sensors for the DC contacts
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)	-40 °C 40 °C
mensions	
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 mm <sup>2</sup>
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	17.90 mm ±0.3 mm



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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
ingle-core wires for locking actuator	
Cable length	0.5 m
Cable structure	4 x 0.5 mm <sup>2</sup>
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
ingle-core wires for Pt 1000 temperature sensors	
Cable length	1 m
Cable structure	3 x 0.5 mm <sup>2</sup>
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
ingle-core wires for communication	
Cable length	1 m
Cable structure	2 x 0.5 mm <sup>2</sup>
Single wire, material	PVC
Single wire, color	ВК
	WH
External cable diameter	1.60 mm ±0.20 mm

### Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

### Environmental and real-life conditions

Ambient conditions



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	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 ()
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

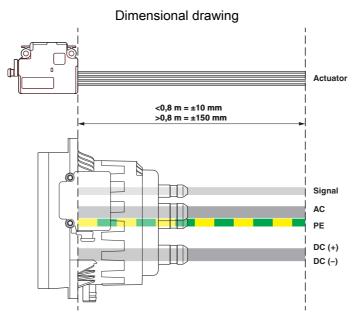
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



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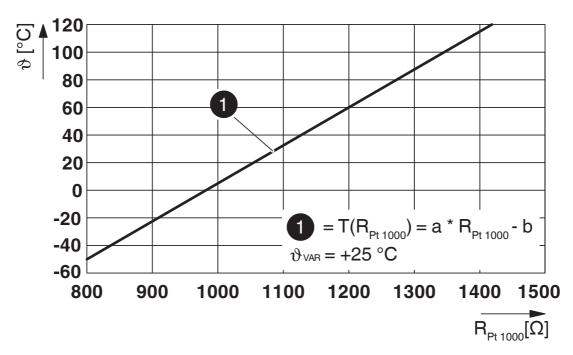
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## Drawings



Reference points for measuring the line length



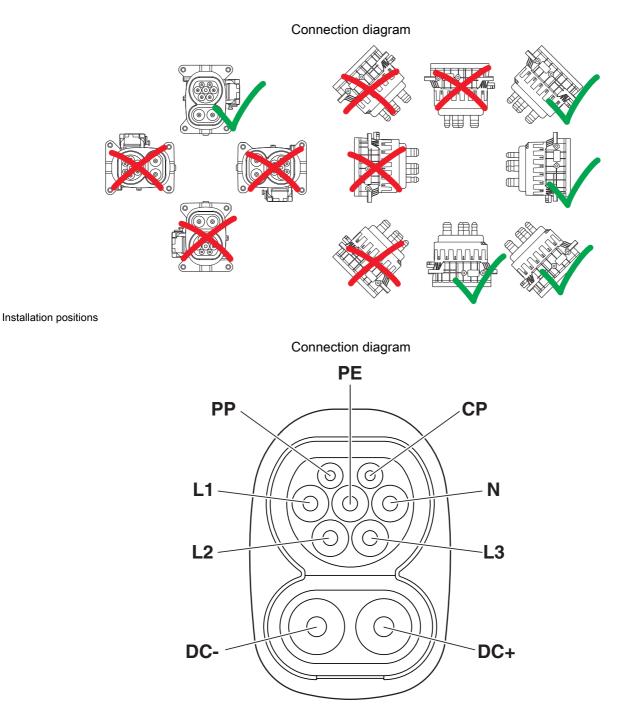


Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts



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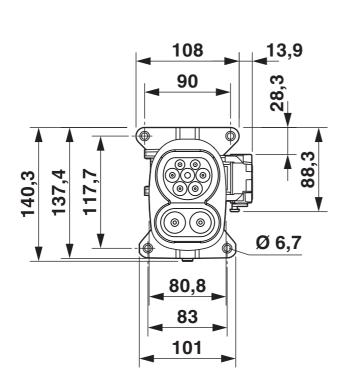
Pin assignment of vehicle charging inlets

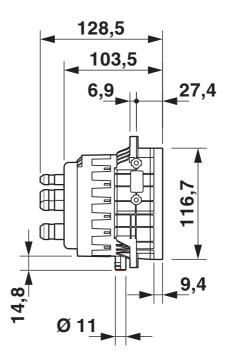


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Dimensional drawing



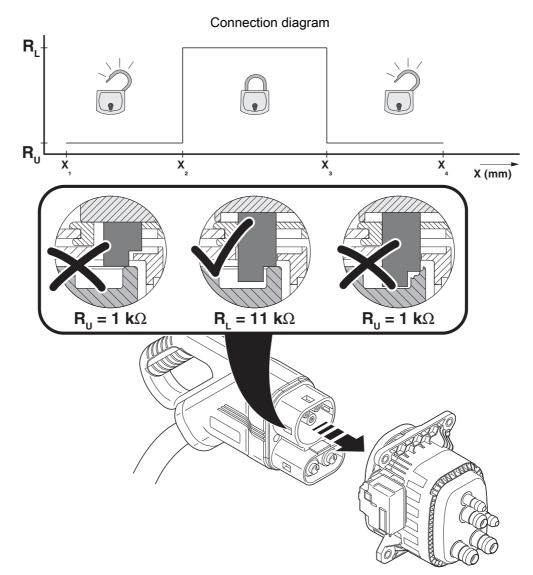


Dimensional drawing



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Detection for Vehicle Connector



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[I] \_ Ш DC [11] (f ¢□□□∎∎| DC [111]  $\sim$ 88 Шĭ DC [IV] [V]

Operating instructions



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 Block diagram

 + BU/RD
 0,5 mm²

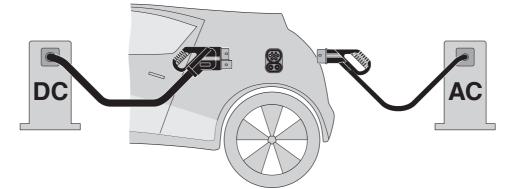
 BU/GN
 0,5 mm²

 BU/YE
 0,5 mm²

 - BU/BN
 0,5 mm²

Block diagram of the locking actuator

Schematic diagram



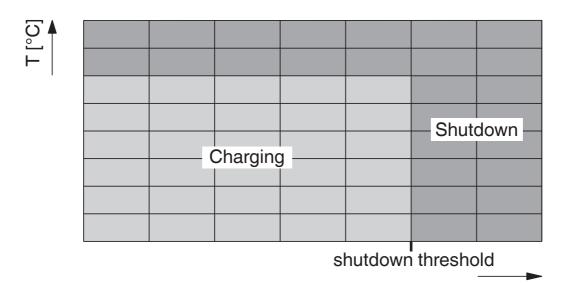
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



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Schematic diagram



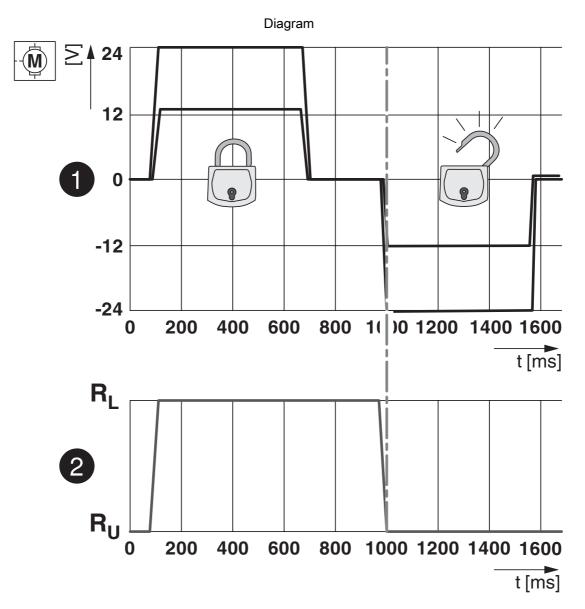
 $R_{PTC}[\Omega]$ 

Temperature sensor technology resistance range at AC contacts



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Locking states 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 ECO	02898
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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.



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## 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-ELOCK24V - Locking

1331524

https://www.phoenixcontact.com/us/products/1331524



CHARX connect universal, Locking, Accessories, for mounting on vehicle charging inlets, Type 2, IEC 61851-1, Single wires, length: 1 m, locking actuator: 24 V, 4-pos.

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