

1162150

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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, 200 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	1162150
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAID
GTIN	4063151171353
Weight per piece (including packing)	5,903 g
Weight per piece (excluding packing)	5,903 g
Customs tariff number	85444290
Country of origin	PL



A protective cap is supplied as standard for the DC and AC

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Technical data

General

Notes

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	

contacts.

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)
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	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

Number	5 (L1, N, PE, DC+, DC-)
Rated voltage	250 V AC
	1000 V DC
Rated current	32 A AC
	200 A DC

Signal contact



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Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
Rated Current	2 A
Temperature 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)
Temperature sensors (Pt 1000)	
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
laterial specifications	
Color (Housing)	black (9005)
(3.33.1 (3333)



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	BN/YE/GN	
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 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 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	

Mechanical properties

Mechanical data

modianion and	
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 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



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Mounting

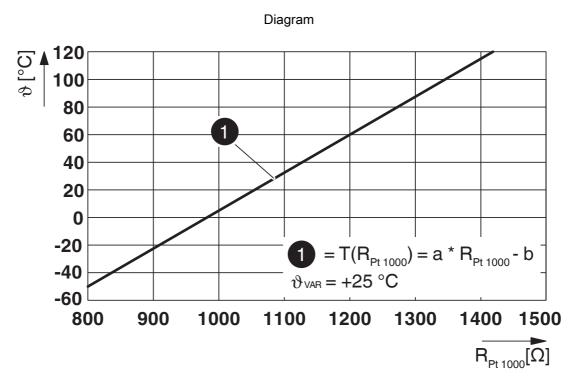
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



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Drawings



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

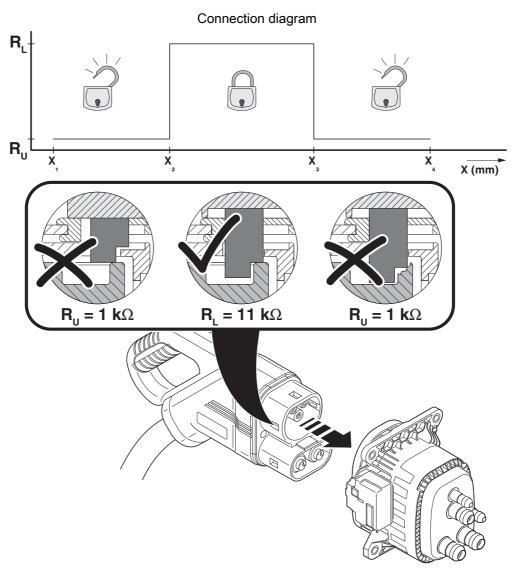
Connection diagram Connection diagram

Installation positions



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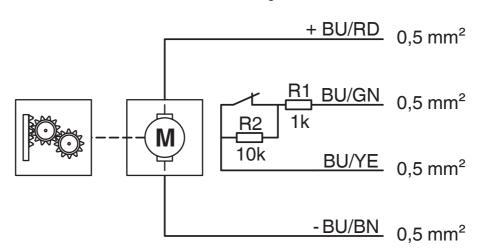
Detection for Vehicle Connector



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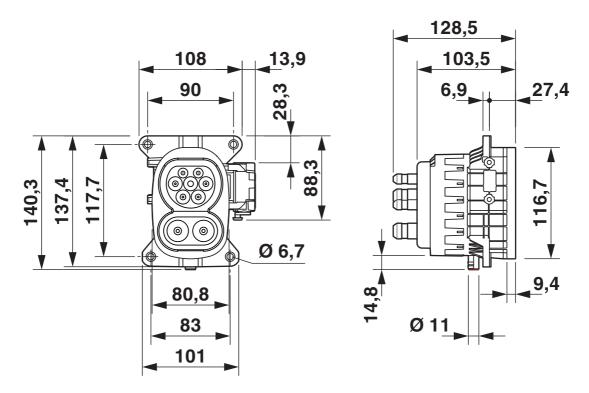
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Schematic diagram



Block diagram of the locking actuator

Dimensional drawing

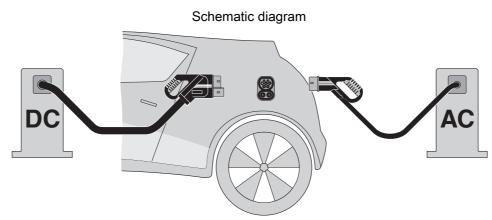


Dimensional drawing



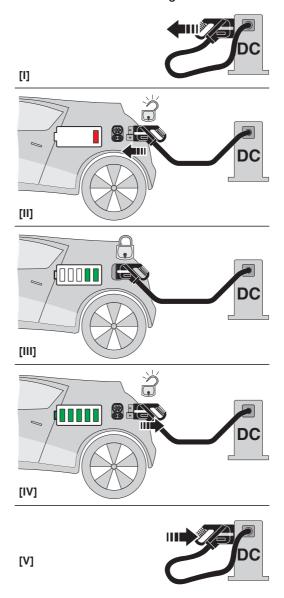
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The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

Schematic diagram

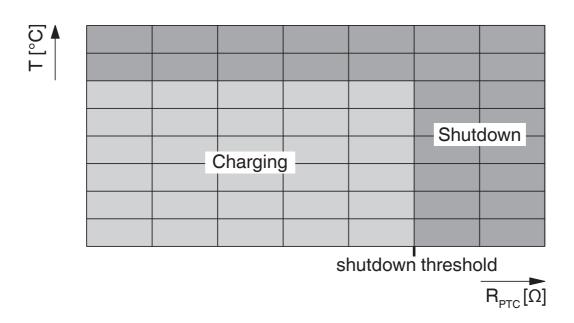




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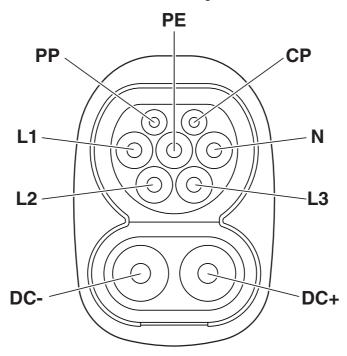
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Schematic diagram



Temperature sensor technology resistance range at AC contacts

Connection diagram

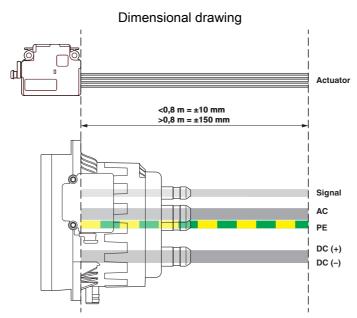


Pin assignment of vehicle charging inlets



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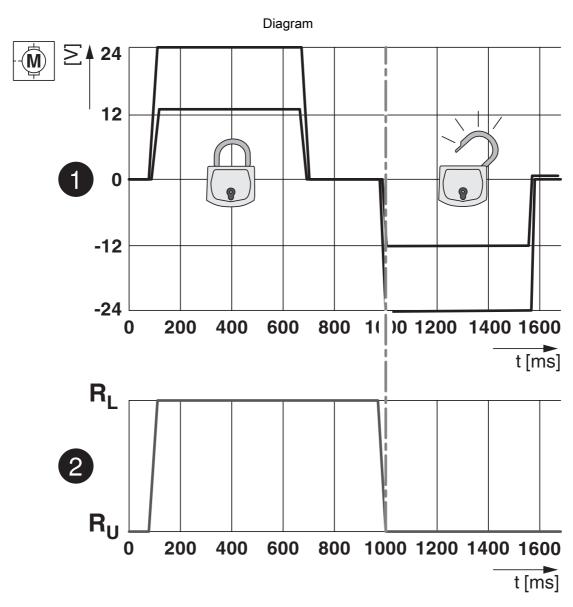


Reference points for measuring the line length



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Locking states of the locking actuator



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Classifications

ECLASS

	200.00			
	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.



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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

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