

1211206

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CHARX connect, Vehicle charging inlet, for charging with alternating current (AC) and with direct current (DC), CCS type 2, IEC 62196-2, IEC 62196-3, 250 A / 1000 V (DC), 32 A / 250 V (AC), length: 2 m (AC cables), locking actuator: 24 V, 4-pos., Front and rear mounting, M6, X-Line, 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 for electromobility (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
- · Safe against overheating with temperature measurement at every DC power contact
- · 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	1211206
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	A17
Product Key	XWCAID
GTIN	4063151284169
Weight per Piece (including packing)	7.105 kg
Weight per Piece (excluding packing)	6.97 kg
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	
Application	for charging with alternating current (AC) and with direct current (DC)	
	for installation in electric vehicles (EV)	
	Combined Charging System	
Locking type Charging standard	Locking in the inserted state with a locking mechanism	
	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 k Ω (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	250 kW
Charging current	250 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
	250 A DC

Signal contact



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Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
rvated current	27
(PTC chain)	
Sensor type	PTC chain
Standards/regulations	DIN□EN 60738-1
Messbereich_Widerstand	790 Ω 1420 Ω
Resistance	max. 1280 Ω ±5 K
Recommended measured current	≤ 1 mA (U _{max} = 16 V DC)
TEST Umgebungstemperatur Neu	-40 °C 130 °C
Cable structure	5 x 0,5 mm²
External cable diameter	1.6 mm -0.2 mm
Bending radius	min. 15 mm
Cable weight	7 kg/km
Cable resistance	≤ 37.1 Ω/km
Single wire, color	brown, gray
	brown, yellow, green
(Pt 1000)	
Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Locking actuator	
Operating voltage	24 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
Locking actuator	
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	1s
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
Cable length	0.5 m
Cable structure	4 x 0.5 mm ²
Bending radius	min. 15 mm
External cable diameter	1.6 mm ±0.02 mm
Cable weight	7 kg/km
Cable resistance	≤ 37.1 Ω/m
Cable (Colotalio	- VI . I 32/III



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Single wire, color	BU/RD, BU/GN, BU/YE, BU/BN
Dimensions	
Dimensional drawing	108 13.9 109.5 27.4 10
Width	108 mm
Height	140.25 mm
Depth	128.4 mm
Bore dimensions	117.65 mm x 90 mm, 117.65 mm x 83 mm
Material specifications	
Material	Plastic
	Silver
Connector	
Insertion/withdrawal cycles	> 10000
Cable / line	
Cable length	2 m (AC cables)
	2 m (DC cables)
	2 m (PE cable)
	1 m (Locking actuator cables)
	1 m (Temperature sensors cables)
	1 m (Communications cables)
AC cable	
Cable weight	approx. 285 kg/km
Conductor structure	2 x 6 mm²
External cable diameter	12.6 mm ±0.2 mm
Outer sheath, material	Silicone
External sheath, color	orange
Conductor resistance	≤ 3.2 Ω/km
Cable weight	approx. 1150 kg/km
Conductor structure	2 x 95 mm²
External cable diameter	20.6 mm ±0.3 mm
Outer sheath, material	Silicone
External sheath, color	orange
Conductor resistance	≤ 0.196 Ω/km
Cable weight	approx. 251 kg/km
Conductor structure	1 x 25 mm²
External cable diameter	8.6 mm ±0.1 mm



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Outer sheath, material	Silicone			
External sheath, color	green-yellow			
Conductor resistance	≤ 0.743 Ω/km			
Communication cable				
Cable weight	7 kg/km			
Conductor structure	0.5 mm ² + 0.5 mm ²			
External cable diameter	1.6 mm -0.2 mm			
Outer sheath, material	PVC			
Conductor resistance	≤ 37.1 Ω/km			
Cable type	Single wires			
Single wire, cross section	6 mm²			

Mechanical properties

Mechanical data

Insertion force	< 100 N
Withdrawal force	< 100 N

Environmental and real-life conditions

Ambient conditions

Degree of protection	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)
	IP55 (Inner area of vehicle charging inlet)
Altitude	4000 m (above sea level)

Standards and regulations

Standards

Standards/regulations	IEC 62196-2
	IEC 62196-3

Mounting

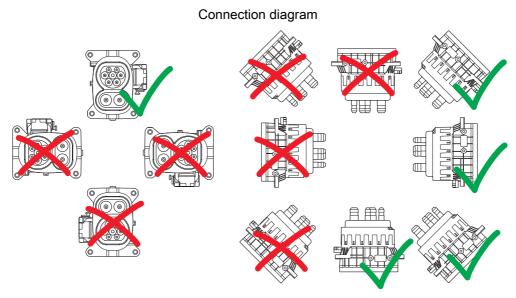
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



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Drawings



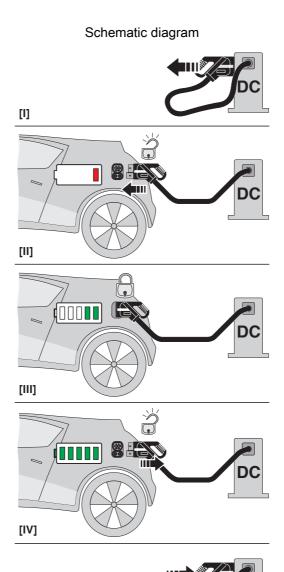
Installation positions

[V]



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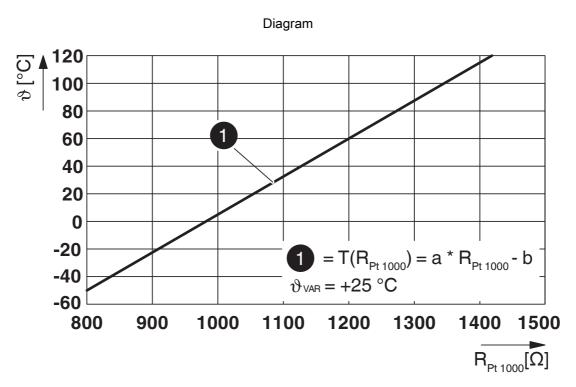


Operating instructions



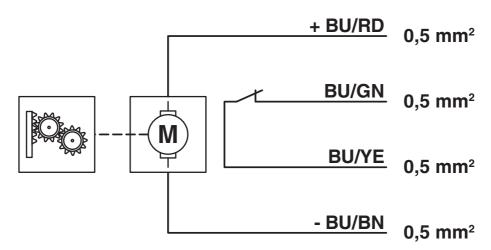
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Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts

Block diagram



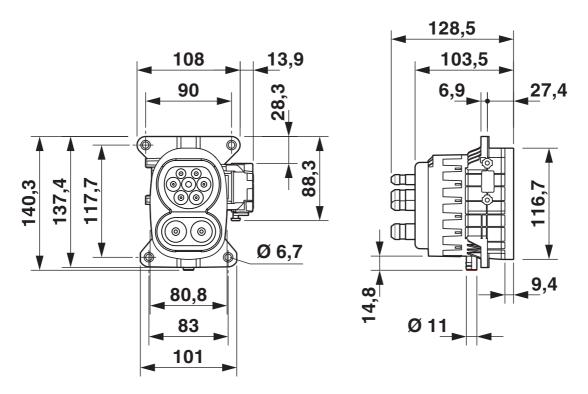
Block diagram of the locking actuator



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Dimensional drawing

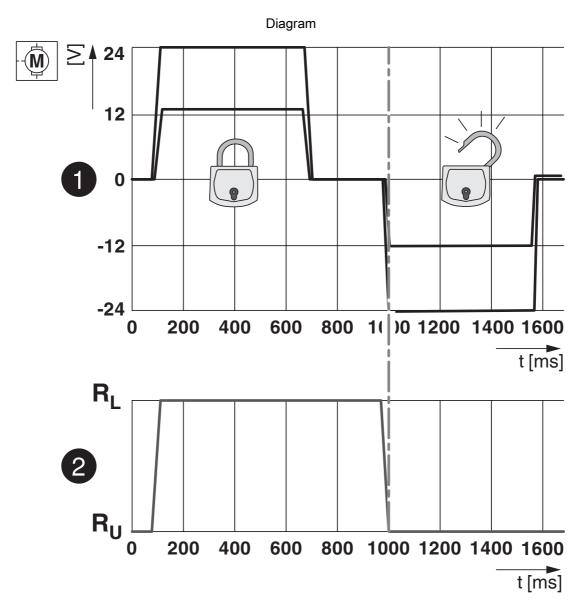


Dimensional drawing



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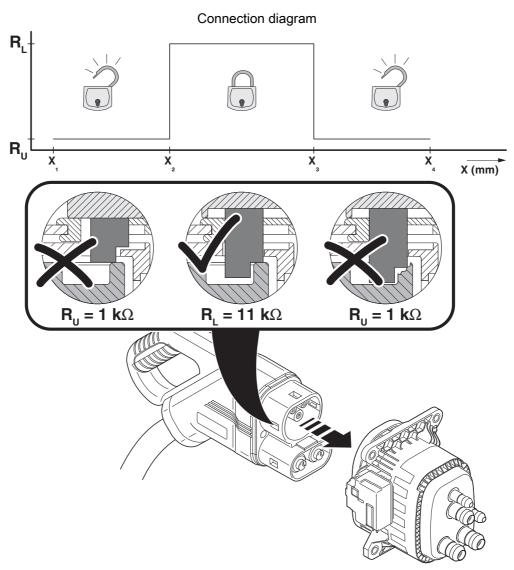


Locking states of the locking actuator



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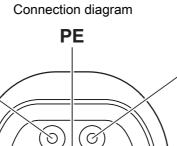


Detection for Vehicle Connector

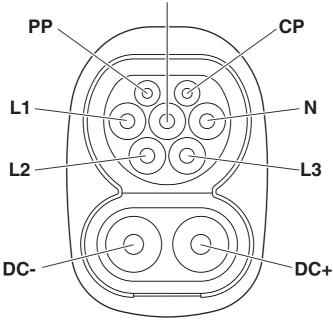


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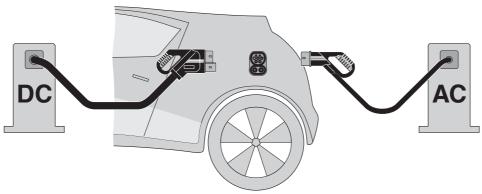
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Schematic diagram



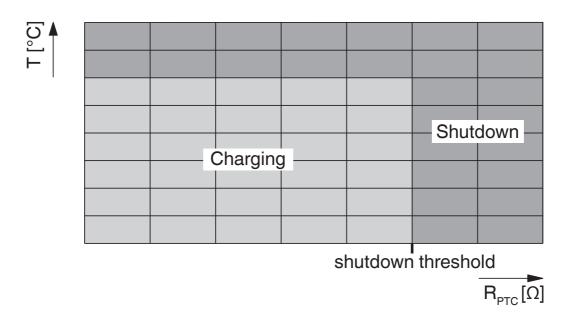
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



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Schematic diagram



Temperature sensor technology resistance range at AC contacts



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Classifications

ECLASS

	ECLASS-9.0	27144706		
	ECLASS-10.0.1	27144706		
	ECLASS-11.0	27144706		
ETIM				
	ETIM 8.0	EC002898		
UNSPSC				
	UNSPSC 21.0	39121800		



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Environmental Product Compliance

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

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