

1162178

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CHARX connect, Vehicle charging inlet, for charging with alternating current (AC) and with direct current (DC), CCS type 1, IEC 62196-2, IEC 62196-3, 200 A / 1000 V (DC), 48 A / 250 V (AC), length: 2 m (AC cables), locking actuator: 12 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 alternating current (AC) and direct current (DC), compatible with type 1 AC and CCS vehicle charging connectors (EVSE), for installation in electric vehicles for electromobility (EV).

Commercial Data

Item number	1162178
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	XWCAIB
Product Key	XWCAIB
GTIN	4063151172121
Weight per Piece (including packing)	5,815 g
Weight per Piece (excluding packing)	5,815 g
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 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	Locking in the inserted state with a locking mechanism
Charging standard	CCS type 1
Charging mode	Mode 2, 3, 4

contacts.

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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	2.7 k Ω (between PE and CS)
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	12 kW
Charging current	48 A
Type of charging current	DC
Charging power	200 kW
Charging current	200 A

Power contact

Number	5 (L1, N, PE, DC+, DC-)
Rated voltage	250 V AC
	1000 V DC
Rated current	48 A AC
	200 A DC

Signal contact

Number	2 (CP, CS)
Rated voltage	30 V AC
Rated current	2 A

(PTC chain)

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Sensor type	PTC chain

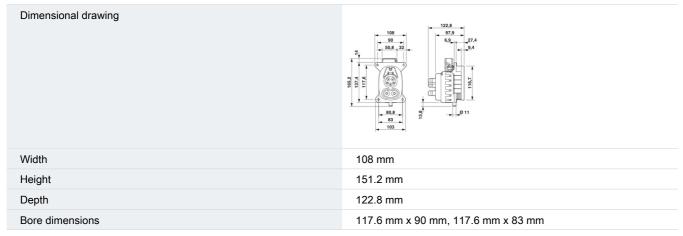


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Standards/regulations	DIN□EN 60738-1
Messbereich_Widerstand	790 Ω 1420 Ω
Resistance	max. 1200 Ω ±5 K
TEST Umgebungstemperatur Neu	-40 °C 130 °C
Cable structure	5 x 0,5 mm²
External cable diameter	1.6 mm -0.2 mm
Bending radius	min. 15 mm
Cable weight	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
ocking actuator	
Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	top center

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Material specifications

Material	Plastic
	Silver

Connector

Insertion/withdrawal cycles	> 10000
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Cable / line

Cable length	2 m (AC cables)
	2 m (DC cables)
	2 m (PE cable)



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	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
DC cable	
Cable weight	approx. 889 kg/km
Conductor structure	2 x 70 mm²
External cable diameter	17.9 mm ±0.3 mm
Outer sheath, material	Silicone
External sheath, color	orange
Conductor resistance	≤ 0.259 Ω/km
Cable weight	approx. 251 kg/km
Conductor structure	1 x 25 mm²
External cable diameter	8.6 mm ±0.1 mm
Outer sheath, material	Silicone
External sheath, color	green-yellow
Conductor resistance	≤ 0.743 Ω/km
Cable weight	7 kg/km
Conductor structure	4 x 0.5 mm²
External cable diameter	1.6 mm -0.2 mm
Outer sheath, material	PVC
Conductor resistance	≤ 37.1 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
Single wire, cross section	6 mm²
echanical properties	
Mechanical data	
Insertion force	< 100 N

< 100 N

Environmental and real-life conditions

Withdrawal force



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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) IP67 (Inner area of vehicle charging inlet)
Altitude	4000 m (above sea level)

Standards and regulations

Standards

Standards/regulations	IEC 62196-2
	IEC 62196-3
	SAE J1772

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

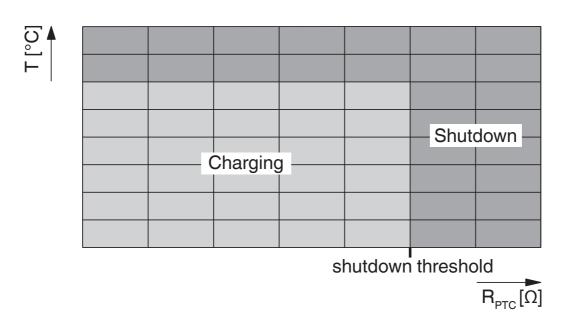


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Drawings

Schematic diagram



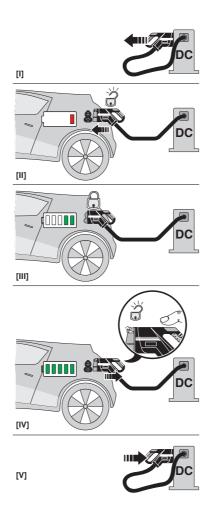
Temperature sensor technology resistance range at AC contacts



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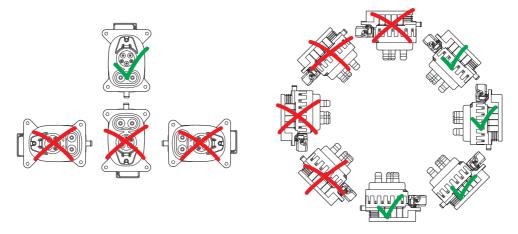
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Schematic diagram



Operating instructions

Connection diagram

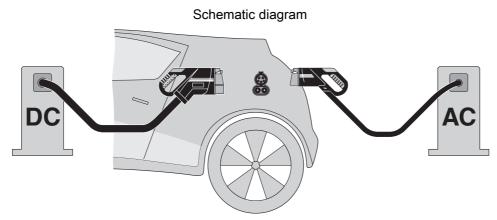


Installation positions



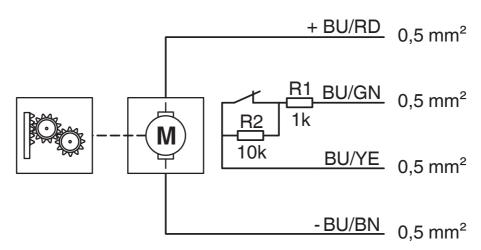
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The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

Schematic diagram



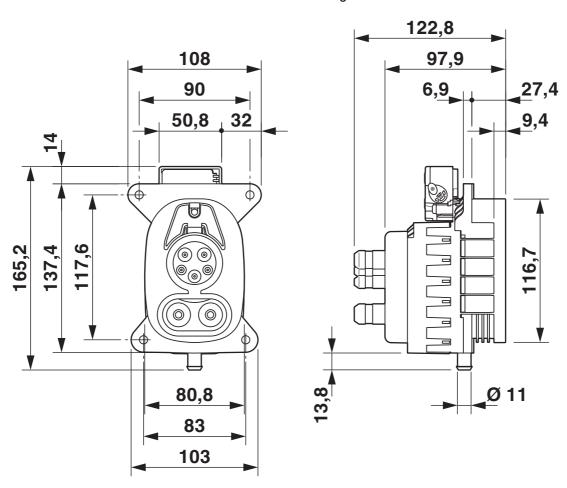
Block diagram of the locking actuator



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Dimensional drawing

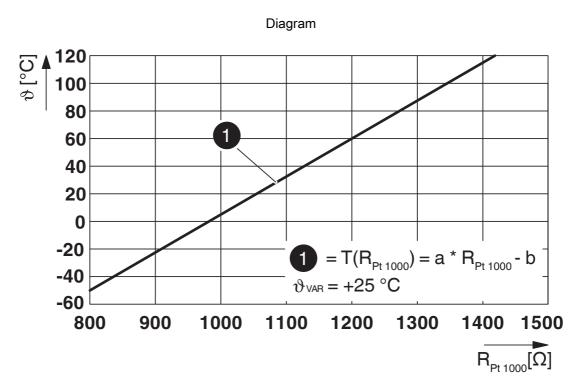


Dimensional drawing



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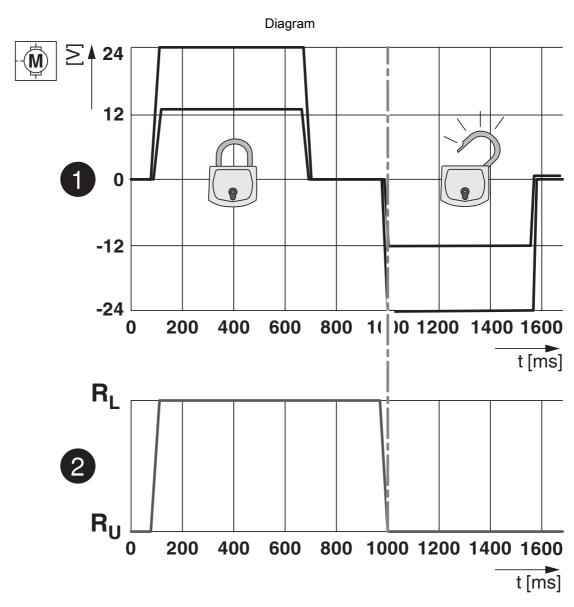


Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts



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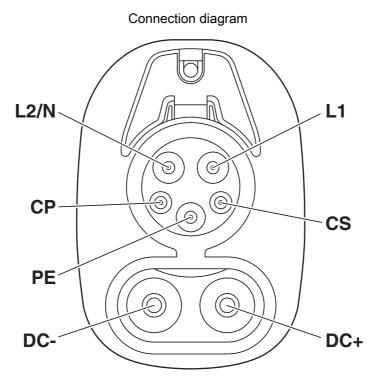


Locking states of the locking actuator



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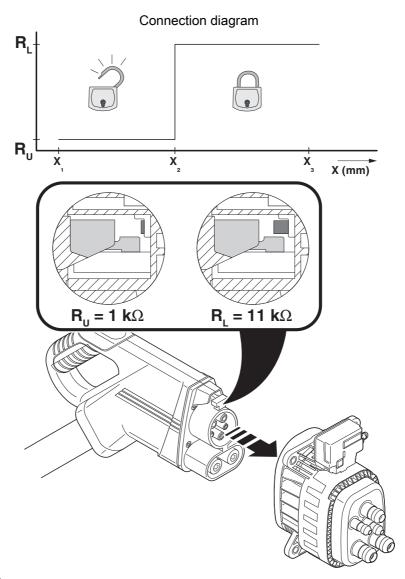


Pin assignment of vehicle charging inlets



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Detection for Vehicle Connector



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Approvals



cULus Recognized Approval ID: E473195-20210730



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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
	DOTE 15571-58-1
	Dechlorane Plus

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