

1162095

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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 / 480 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 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	1162095
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	XWCAID
Product Key	XWCAID
GTIN	4063151172107
Weight per Piece (including packing)	7,497 g
Weight per Piece (excluding packing)	7,400 g
Customs tariff number	85444290
Country of origin	DE



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	Locking in the inserted state with a locking mechanism
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 3-phase
Charging power	26.6 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	7 (L1, L2, L3, N, PE, DC+, DC-)
Rated voltage	480 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
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 <sub>max</sub> = 16 V DC)
TEST Umgebungstemperatur Neu	-40 °C 130 °C
Cable structure	5 x 0,5 mm <sup>2</sup>
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	right-side

### **Dimensions**

Dimensional drawing	108 13.5 103.5 17.4 103.5 103.
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



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### Cable / line

able / life	
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. 450 kg/km
Conductor structure	4 x 6 mm²
External cable diameter	14.7 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
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 mm <sup>2</sup>
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 mm² + 0.5 mm²
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

### Mechanical properties

Insertion force	< 100 N
meerican reres	10011



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Withdrawal force	
Williawai loice	< 100 N
vironmental and real-life conditions	
Who intental 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)
	IP67 (Inner area of vehicle charging inlet)
Altitude	4000 m (above sea level)
Standards	
Standards Standards/regulations	IEC 62196-2
	IEC 62196-2 IEC 62196-3
Standards/regulations	
Standards/regulations	
Standards/regulations punting	IEC 62196-3  Front and rear mounting (0 to 90 degree frontal inclination
Standards/regulations  Dunting  Mounting type	IEC 62196-3  Front and rear mounting (0 to 90 degree frontal inclination possible)
Standards/regulations  Dunting  Mounting type  Mounting hole diameter	Front and rear mounting (0 to 90 degree frontal inclination possible)  6.70 mm (ø)

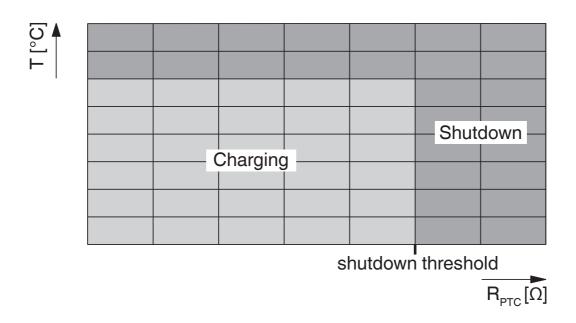


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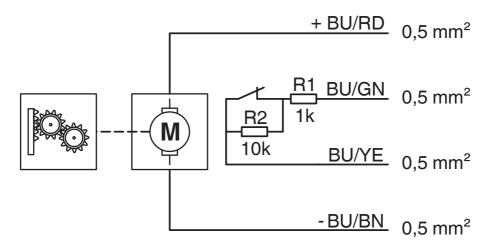
### **Drawings**

### Schematic diagram



Temperature sensor technology resistance range at AC contacts

### Schematic diagram

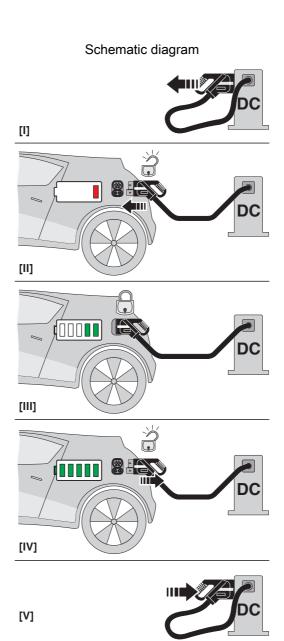


Block diagram of the locking actuator



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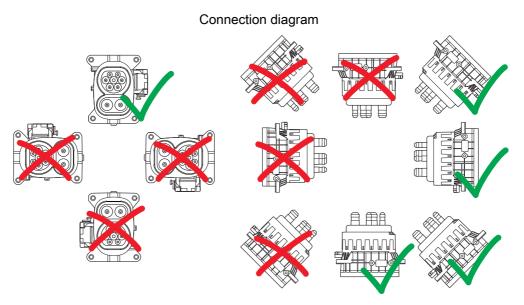


Operating instructions



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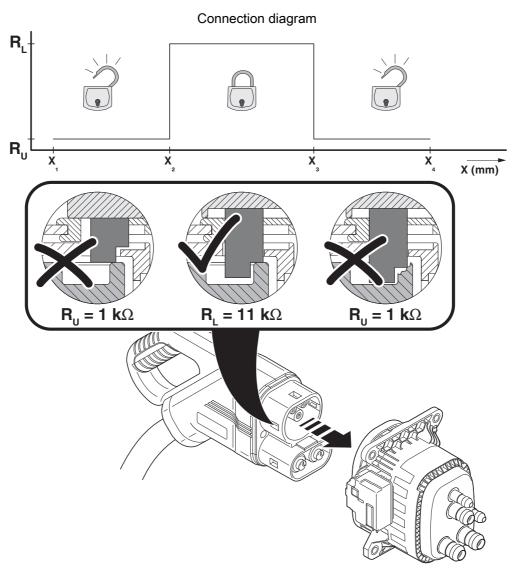


Installation positions



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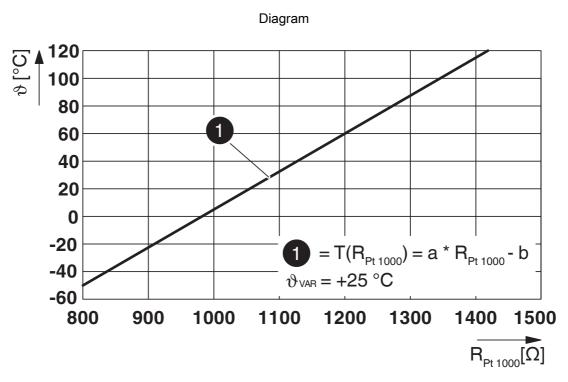


**Detection for Vehicle Connector** 



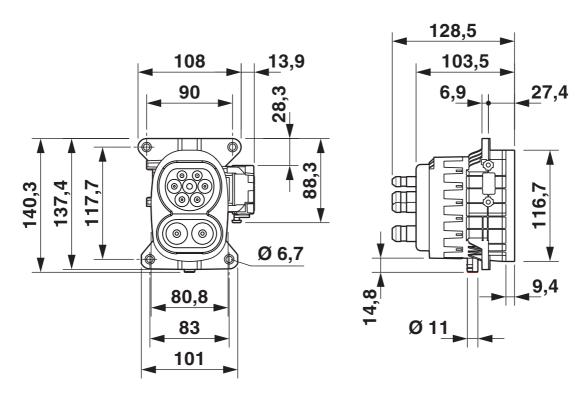
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Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts

### Dimensional drawing

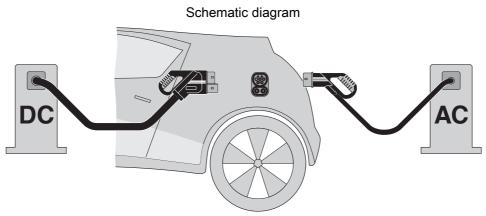


Dimensional drawing

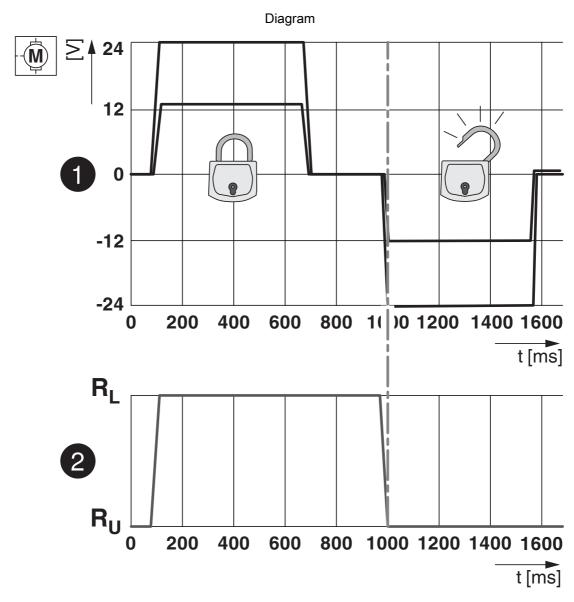


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The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

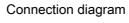


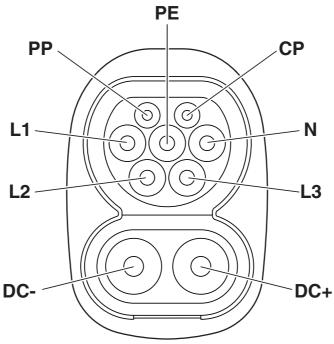
Locking states of the locking actuator



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Pin assignment of vehicle charging inlets



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### Classifications

UNSPSC 21.0

### **ECLASS**

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

39121800



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### **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
	DOTE 15571-58-1
	Dechlorane Plus

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