

1194398

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CHARX connect universal, Vehicle charging inlet, for charging with alternating current (AC) and with direct current (DC), CCS type 1, IEC 62196-2, IEC 62196-3, 125 A / 1000 V (DC), 48 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 alternating current (AC) and direct current (DC), compatible with type 1 AC and 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	1194398
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWCAIB
GTIN	4063151249267
Weight per piece (including packing)	4,170 g
Weight per piece (excluding packing)	4,170 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 1
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	2.7 k $\Omega$ (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	125 kW
Charging current	125 A

#### Power contact

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

#### Signal contact

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

#### Temperature sensors (PTC chain)

Temperature demons (C. 1 d'enam)	
Sensor type	PTC chain



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Standards/regulations	DIN□EN 60738-1
Attachment point	Sensor for the AC contacts
Measuring range_resistance	790.00 Ω 1420.00 Ω
Resistance	max. 1200 Ω ±5 K
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	top center
Locking actuator	
Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	top center
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 80 °C
Dimensions	
Width	117.6 mm
Height	90 mm
Depth	117.6 mm
Material specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
Cable/line	
Cable length	2 m
Cable type	Single wires



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Single wire, cross section	35.00 mm²
Single-core wires for AC	
Cable length	2 m
Cable structure	2 x 6 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	12.60 mm ±0.2 mm
Cable resistance	≤ 3.2 Ω/km
Single-core wires for DC	
Cable length	2 m
Cable structure	2 x 35 mm <sup>2</sup>
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	14.10 mm ±0.3 mm
Cable resistance	≤ 0.527 Ω/km
Single-core wire for PE	
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
Single-core wires for locking actuator	
Cable length	1.5 m
Cable structure	4 x 0.5 mm²
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
Single-core wires for PTC temperature sensors	
Cable length	1 m
Cable structure	5 x 0,5 mm²
Single wire, color	BN/GY
	BN/YE/GN
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
Circle and view for Dt 1000 to the circ	
Single-core wires for Pt 1000 temperature sensors	1 m
Cable length  Cable structure	1 m 3 x 0.5 mm <sup>2</sup>
	PVC
Single wire, material	BN
	DIN



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Single wire, color	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

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 60 °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
	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

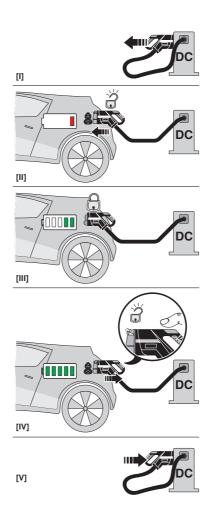


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### Drawings

### Schematic diagram



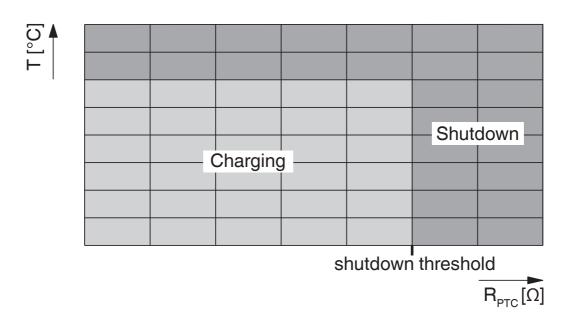
Operating instructions



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### Schematic diagram

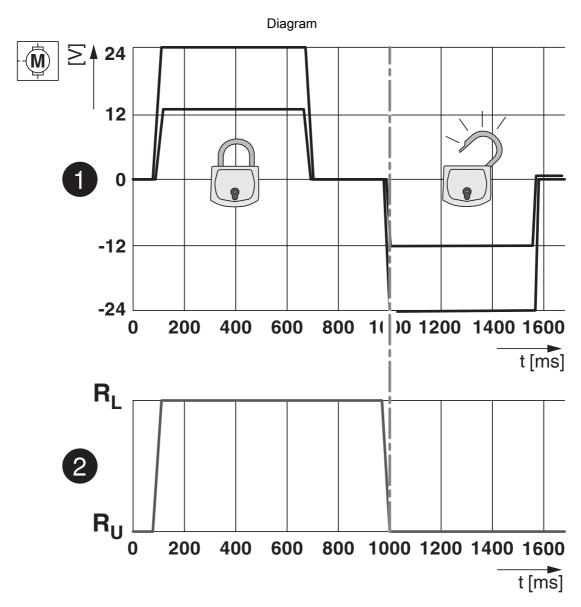


Temperature sensor technology resistance range at AC contacts



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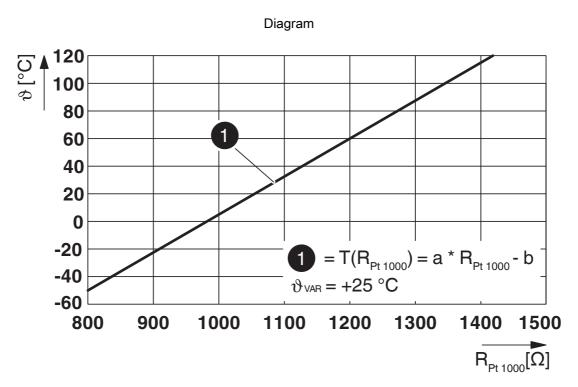


Locking states of the locking actuator

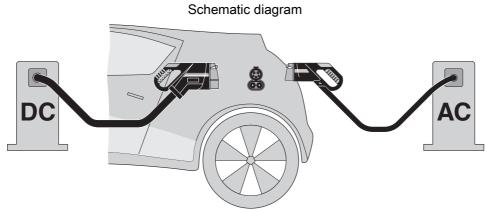


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Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts

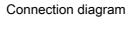


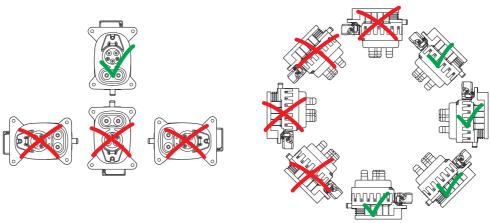
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



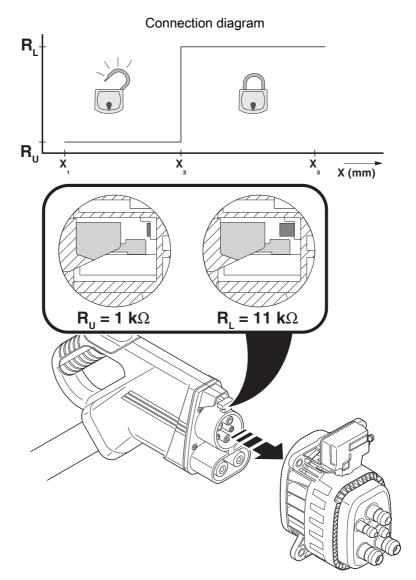
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Installation positions



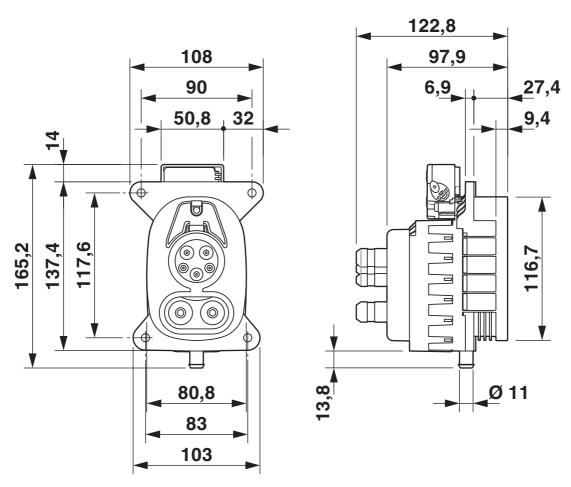
**Detection for Vehicle Connector** 



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### Dimensional drawing

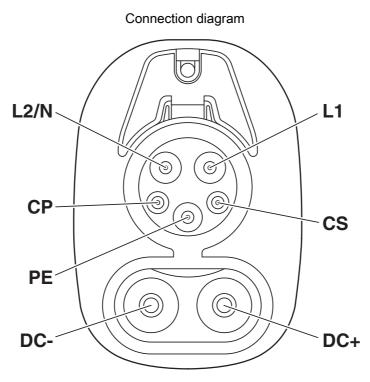


Dimensional drawing

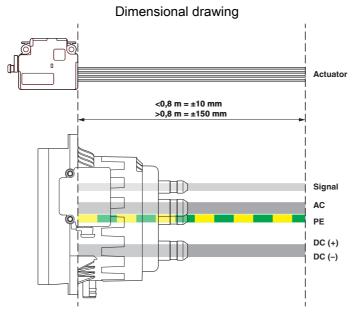


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Pin assignment of vehicle charging inlets



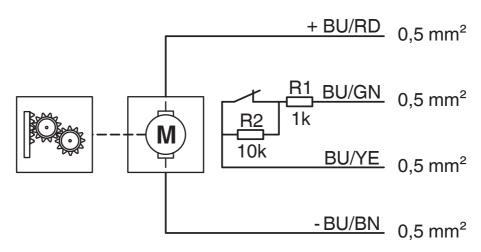
Reference points for measuring the line length



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### Schematic diagram



Block diagram of the locking actuator



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### **Approvals**

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cULus Recognized

Approval ID: E473195-20210730



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### Classifications

### **ECLASS**

ECLASS-11.0	27144706
ECLASS-12.0	27144706
ECLASS-13.0	27144706

### **ETIM**

ETIM 9.0	EC002898



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### Environmental product compliance

REACh SVHC	Lead 7439-92-1
	DOTE 15571-58-1
	Dechlorane Plus
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the



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#### Accessories

#### CHARX T1HBI-DUST-COVER-SET - Protective cover

1305482

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CHARX connect universal, Protective cover, Accessories, for vehicle charging inlet, CCS type 1, Plug-on assembly, housing: black

### CHARX T1HI-ELOCK12V - Locking

1331528

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CHARX connect universal, Locking, Accessories, for mounting on vehicle charging inlets, Type 1, IEC 61851-1, Single wires, length: 1 m, locking actuator: 12 V, 4-pos.

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