

1211217

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CHARX connect universal, Vehicle charging inlet, for charging with direct current (DC), CCS type 2, IEC 62196-2, IEC 62196-3, 200 A / 1000 V (DC), Single wires, length: 2 m, locking actuator: 24 V, 4-pos., Front and rear mounting, M6, housing: black, A protective cap is supplied as standard for the DC 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	1211217
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	EM01
Product Key	XWCAID
GTIN	4063151283933
Weight per Piece (including packing)	5,256 g
Weight per Piece (excluding packing)	5,210 g
Customs tariff number	85444290
Country of origin	PL



A protective cap is supplied as standard for the DC contacts.

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### **Technical Data**

General

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uct properties	
Product type	Vehicle charging inlet
Product family	CHARX connect universal
Application	for charging with direct current (DC)
	for installation in electric vehicles (EV)
ocking type	Locking in the inserted state with a locking mechanism
Fechnology	Combined Charging System
Charging standard	CCS type 2
Charging mode	Mode 4

#### 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)
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	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	200 A DC

#### Signal contact

3 1 11 11 11	
Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A

#### Temperature sensors (Pt 1000)

Sensor type Pt 1000
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Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts
Locking actuator	
Operating voltage	24 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
Locking actuator	
Operating voltage	24 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
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	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)	-30 °C 50 °C
Ambient temperature (operation)	-30 C 30 C
aterial specifications	-30 C 50 C
	black (9005)
aterial specifications	
aterial specifications  Color (Housing)	black (9005)
aterial specifications  Color (Housing)  Color (Mating face)	black (9005) black (9005)
aterial specifications  Color (Housing)  Color (Mating face)  Material (Housing)	black (9005) black (9005) Plastic
aterial specifications  Color (Housing)  Color (Mating face)  Material (Housing)  Material (Contact surface)	black (9005) black (9005) Plastic Silver
aterial specifications  Color (Housing)  Color (Mating face)  Material (Housing)  Material (Contact surface)  able/line  Cable length	black (9005) black (9005) Plastic Silver
aterial specifications  Color (Housing)  Color (Mating face)  Material (Housing)  Material (Contact surface)  able/line  Cable length  Cable type	black (9005) black (9005) Plastic Silver
aterial specifications  Color (Housing)  Color (Mating face)  Material (Housing)  Material (Contact surface)  able/line  Cable length  Cable type  Single-core wires for DC	black (9005) black (9005) Plastic Silver  2 m Single wires
aterial specifications  Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface)  able/line Cable length Cable type  Single-core wires for DC Cable length	black (9005) black (9005) Plastic Silver  2 m Single wires
aterial specifications  Color (Housing)  Color (Mating face)  Material (Housing)  Material (Contact surface)  able/line  Cable length  Cable type  Single-core wires for DC  Cable length  Cable structure	black (9005) black (9005) Plastic Silver  2 m Single wires  2 m 2 x 70 mm²
aterial specifications  Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface)  able/line Cable length Cable type  Single-core wires for DC Cable length Cable structure Single wire, material	black (9005) black (9005) Plastic Silver  2 m Single wires  2 m 2 x 70 mm² Silicone
aterial specifications  Color (Housing)  Color (Mating face)  Material (Housing)  Material (Contact surface)  able/line  Cable length  Cable type  Single-core wires for DC  Cable length  Cable structure  Single wire, material  Single wire, color	black (9005) black (9005) Plastic Silver  2 m Single wires  2 m 2 x 70 mm² Silicone OG
aterial specifications  Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface)  able/line Cable length Cable type  Single-core wires for DC Cable length Cable structure Single wire, material Single wire, color External cable diameter	black (9005) black (9005) Plastic Silver  2 m Single wires  2 m 2 x 70 mm² Silicone OG 17.9 mm ±0.3 mm
aterial specifications  Color (Housing)  Color (Mating face)  Material (Housing)  Material (Contact surface)  able/line  Cable length  Cable type  Single-core wires for DC  Cable length  Cable structure  Single wire, material  Single wire, color	black (9005) black (9005) Plastic Silver  2 m Single wires  2 m 2 x 70 mm² Silicone OG
aterial specifications  Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface)  able/line Cable length Cable type  Single-core wires for DC Cable length Cable structure Single wire, material Single wire, color External cable diameter	black (9005) black (9005) Plastic Silver  2 m Single wires  2 m 2 x 70 mm² Silicone OG 17.9 mm ±0.3 mm
aterial specifications  Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface)  able/line Cable length Cable type  Single-core wires for DC Cable length Cable structure Single wire, material Single wire, color External cable diameter Cable resistance	black (9005) black (9005) Plastic Silver  2 m Single wires  2 m 2 x 70 mm² Silicone OG 17.9 mm ±0.3 mm
aterial specifications  Color (Housing)  Color (Mating face)  Material (Housing)  Material (Contact surface)  able/line  Cable length  Cable type  Single-core wires for DC  Cable length  Cable structure  Single wire, material  Single wire, color  External cable diameter  Cable resistance  Single-core wire for PE	black (9005) black (9005) Plastic Silver  2 m Single wires  2 m 2 x 70 mm² Silicone OG 17.9 mm ±0.3 mm ≤ 0.259 Ω/km



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Single wire, color	GN/YE
External cable diameter	8.6 mm ±0.1 mm
Cable resistance	≤ 0.743 Ω/km
Single-core wires for locking actuator	
Cable length	0.5 m
Cable structure	4 x 0.5 mm <sup>2</sup>
Single wire, material	PVC
Single wire, color	BU/RD, BU/GN, BU/YE, BU/BN
External cable diameter	1.6 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 mm²
Single wire, material	PVC
Single wire, color	BN
olligic wile, color	GN
	YE
External cable diameter	1.6 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	1.6 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
chanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N

#### Environmental and real-life 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



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Screws included in the scope of delivery

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
Mounting	
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6

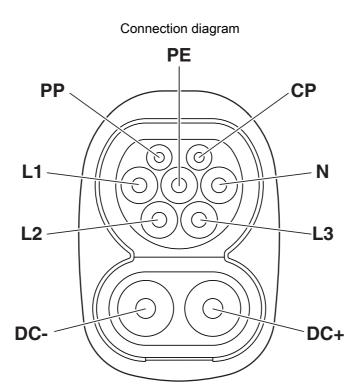
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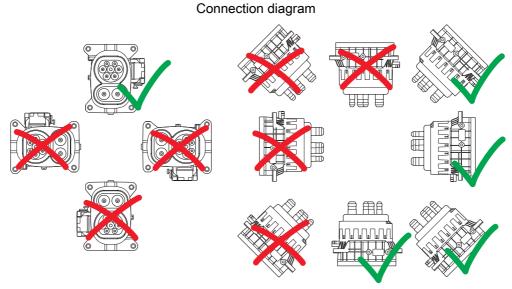
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### Drawings



Pin assignment of vehicle charging inlets



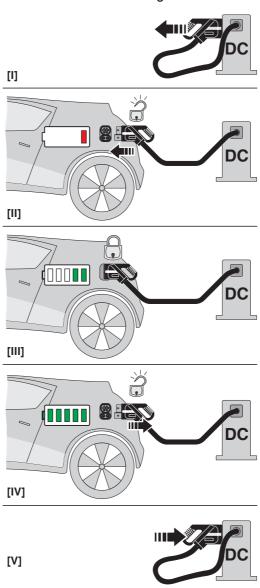
Installation positions



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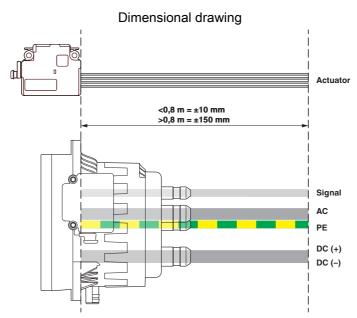


Operating instructions



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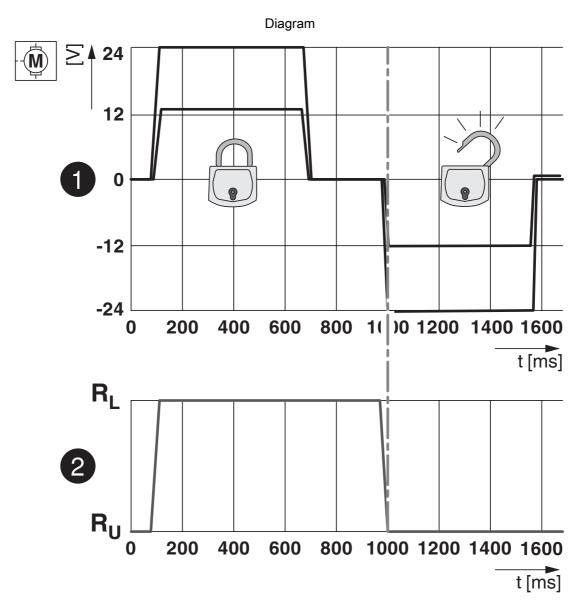


Reference points for measuring the line length



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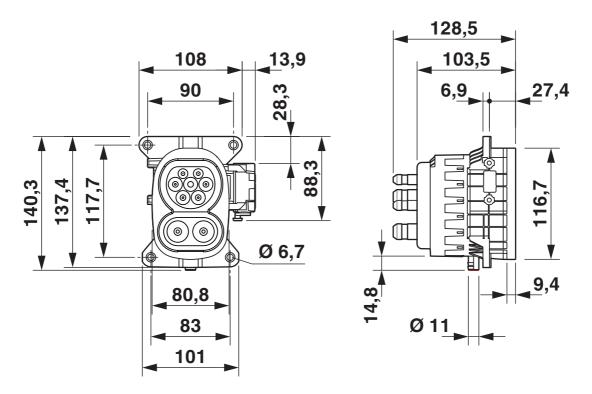
Locking states of the locking actuator



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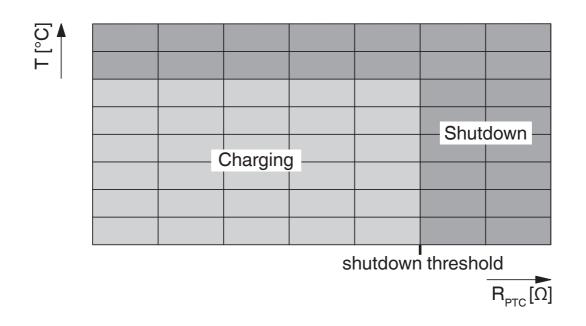
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#### Dimensional drawing



Dimensional drawing

#### Schematic diagram

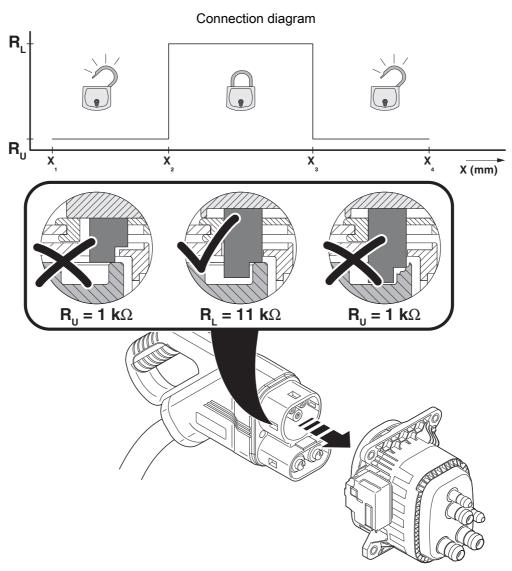


Temperature sensor technology resistance range at AC contacts

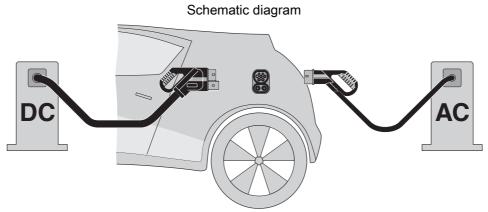


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**Detection for Vehicle Connector** 

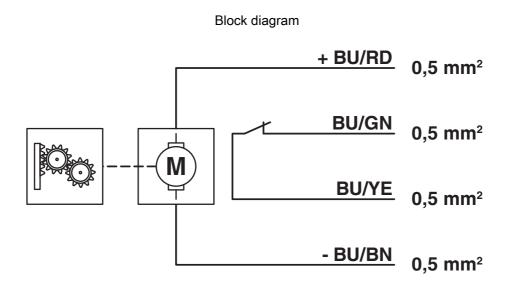


The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

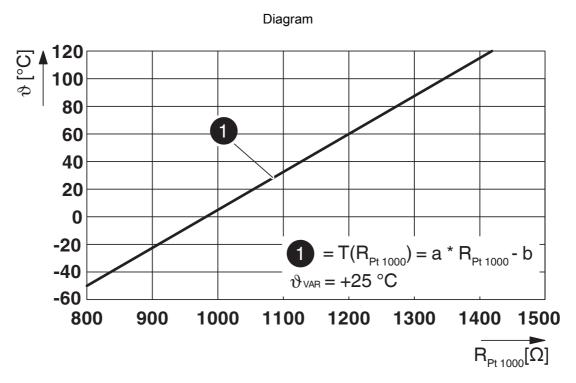


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Block diagram of the locking actuator



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



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### Classifications

#### **ECLASS**

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

#### **ETIM**

ETIM 8.0	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;



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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

#### CHARX T2HI-ELOCK24V - Locking

1331524

https://www.phoenixcontact.com/us/products/1331524



CHARX connect universal, Locking, Accessories, for mounting on vehicle charging inlets, Type 2, IEC 61851-1, Single wires, length: 1 m, locking actuator: 24 V, 4-pos.

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