

1211212

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CHARX connect universal, Vehicle charging inlet, for charging with alternating current (AC) and with direct current (DC), CCS type 2, IEC 62196-2, IEC 62196-3, 200 A / 1000 V (DC), 32 A / 480 V (AC), 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 and AC contacts.

Product description

Vehicle charging inlet for charging with alternating current (AC) and direct current (DC), compatible with type 2 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	1211212
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAID
GTIN	4063151284404
Weight per piece (including packing)	6,235 g
Weight per piece (excluding packing)	6,235 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Notes

General	A protective cap is supplied as standard for the DC and AC contacts.
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 2
Charging mode	Mode 2, 3, 4
Data management status	
Article revision	04

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 kW
Charging current	32 A
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	7 (L1, L2, L3, N, PE, DC+, DC-)
Rated voltage	480 V AC
	1000 V DC
Rated current	32 A AC



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	200 A DC (DC+, DC-, PE)
Signal contact	
Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
Temperature sensors (PTC chain)	
Sensor type	PTC chain
Standards/regulations	DIN EN 60738-1
Attachment point	Sensor for the AC contacts
Measuring range_resistance	790.00 Ω 1420.00 Ω
Resistance	max. 1280 Ω ±5 K
Recommended measured current	≤ 1 mA (U _{max} = 16 V DC)
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
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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)	-40 °C 40 °C
mensions	
Width	117.65 mm
Height	90 mm
	117.65 mm



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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
Single wire, cross section	70.00 mm ²

Single-core wires for AC

Single-core wires for AC	
Cable length	2 m
Cable structure	4 x 6 mm ²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	14.70 mm ±0.2 mm
Cable resistance	≤ 3.2 Ω/km

Single-core wires for DC

Cable length	2 m
Cable structure	2 x 70 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	17.90 mm ±0.3 mm
Cable resistance	≤ 0.259 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 structure 4 x 0.5 mm² Single wire, material PVC	Cable length	0.5 m
Single wire, material PVC	Cable structure	4 x 0.5 mm ²
	Single wire, material	PVC
Single wire, color BU/RD, BU/GN, BU/YE, BU/BN	Single wire, color	BU/RD, BU/GN, BU/YE, BU/BN
External cable diameter 1.60 mm ±0.20 mm	External cable diameter	1.60 mm ±0.20 mm
Cable resistance ≤ 37.1 Ω/m	Cable resistance	≤ 37.1 Ω/m

Single-core wires for PTC temperature sensors



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2 x 0.5 mm²		
PVC		
BN/GY		
BN/YE/GN		
1.60 mm ±0.20 mm		
≤ 37.1 Ω/m		
Single-core wires for Pt 1000 temperature sensors		
1 m		
3 x 0.5 mm²		
PVC		
BN		
GN		
YE		
1.60 mm ±0.20 mm		
≤ 37.1 Ω/m		
Single-core wires for communication		
1 m		
2 x 0.5 mm²		

Mechanical properties

Cable resistance

Single wire, color

External cable diameter

Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

BK WH

1.60 mm ±0.20 mm

≤ 37.1 Ω/m

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 40 °C ()
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	4000 m (above sea level)

Standards and regulations

Standards



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	Standards/regulations	IEC 62196-2
		IEC 62196-3
Mounting		

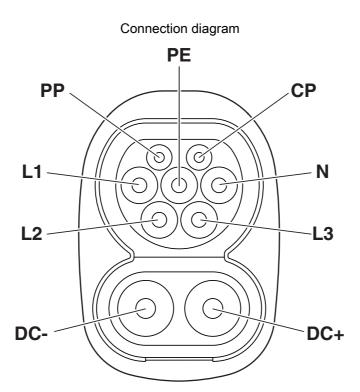
Mounting type Front and rear mounting (0 to 90 degree frontal inclination possible) Mounting hole diameter 6.70 mm (ø) Fixing screws M6 Screws included in the scope of delivery none



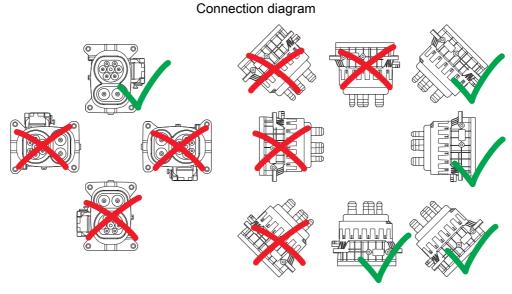
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Drawings



Pin assignment of vehicle charging inlets



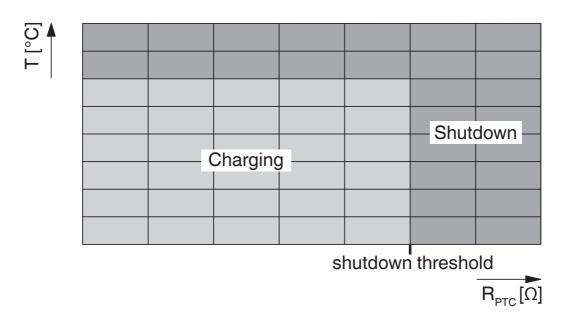
Installation positions



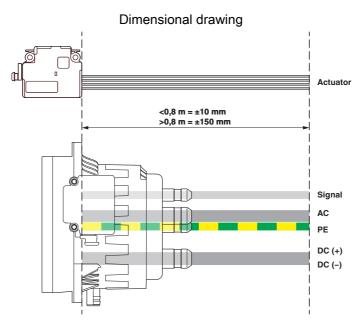
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Schematic diagram



Temperature sensor technology resistance range at AC contacts

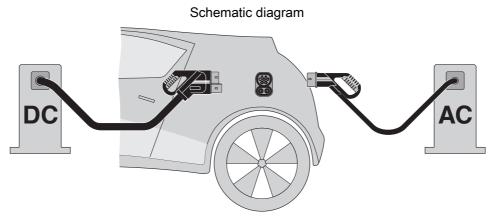


Reference points for measuring the line length



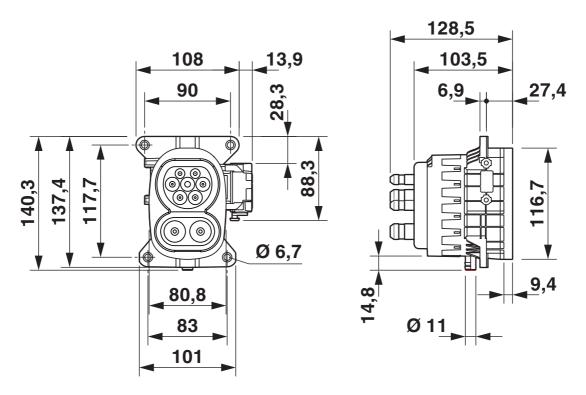
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The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

Dimensional drawing



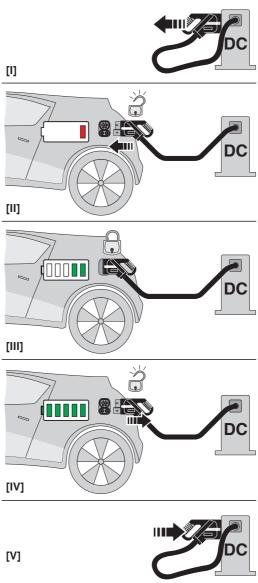
Dimensional drawing



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Schematic diagram

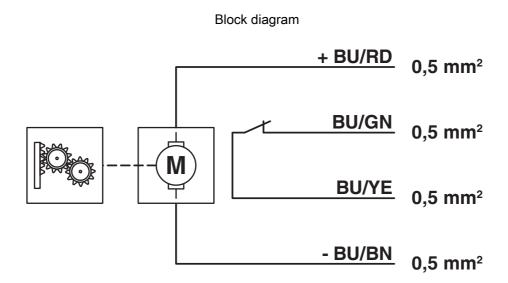


Operating instructions

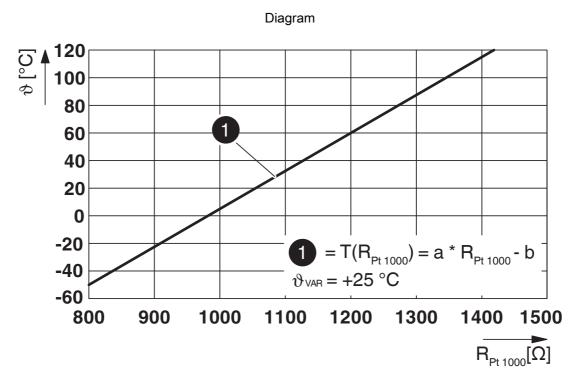


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Block diagram of the locking actuator

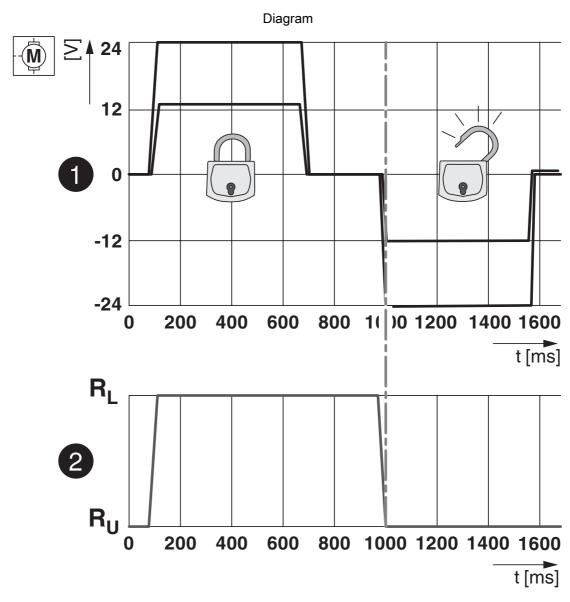


Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts



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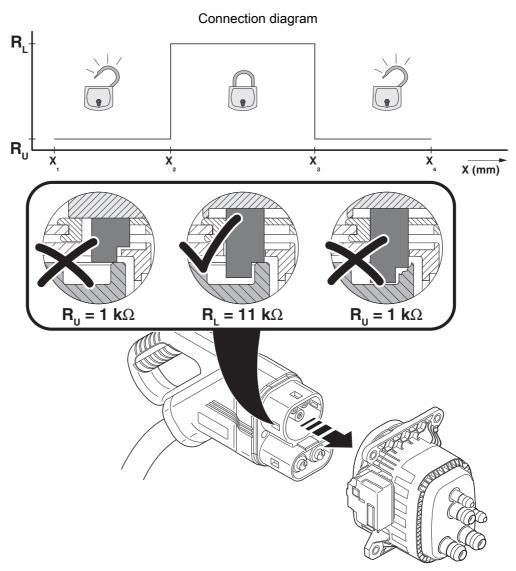


Locking states of the locking actuator



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Detection for Vehicle Connector



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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

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-10
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)(CAS: 15571-58-1)
	Lead(CAS: 7439-92-1)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	4a384a89-9514-4cd0-9ffa-d34acbb73057



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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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