

1211210

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CHARX connect universal, AC/DC CCS Typ 2, Vehicle charging inlet, up to 500 A in Boost mode, 125 A permanent, 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, for charging with alternating current (AC) and with direct current (DC), IEC 62196-2, IEC 62196-3, 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	1211210
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAID
GTIN	4063151281298
Weight per piece (including packing)	4,529 g
Weight per piece (excluding packing)	6,320 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

General	A protective cap is supplied as standard for the DC and AC contacts.
oduct 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)
	Combined Charging System
Charging standard	AC/DC CCS Typ 2
Charging mode	Mode 2, 3, 4
Customer variations	On request
ectrical properties	
Note on the connection method	Crimp connection, cannot be disconnected
Temperature measurement	DC contacts: 2x PT1000 (DIN EN 60751)
Temperature monitoring	AC contacts: PTC chain (DIN EN 60738-1)
Charging power and current (AC charging (3-phase))	
Type of charging current	AC 3-phase
Charging current	32 A AC (3-phase)
Charging power	26 kW
Charging power and current (DC charging)	
Type of charging current	DC
Charging current	125 A DC
Charging power	125 kW
Rated voltage	1000 V
Charging power and current (DC charging in Boost Mode)	
Type of charging current	DC Boost Mode
Charging current	up to 500 A DC
Charging power	up to 250 kW
Rated voltage	1000 V
Note	The specifications refer to charging in Boost Mode and are dependent on ambient conditions. For further details, see the packing slip in the download area.
Pin assignment (Leistungskontakte)	
Number	7 (L1, L2, L3, N, PE, DC+, DC-)
Rated voltage	480 V AC
	1000 V DC



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Vehicle charging inlet

Width

Height

Rated current	32 A AC
	125 A DC
n assignment (Signalkontakte)	
Type of signal transmission	Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
Coding	4.7 kΩ (between PE and PP)
Insulation resistance	> 200 MΩ
ocking actuator	
Locking actuator	24 V, 4-pos.
	Right position
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
emperature sensors (PTC chain)	
Sensor type	PTC chain
Standards/regulations	DIN EN 60738-1
Attachment point	Sensor for the AC contacts
Measuring range_resistance	790 Ω 1420 Ω
Resistance	max. 1280 Ω ±5 K
Recommended measured current	≤ 1 mA (U _{max} = 16 V DC)
Ambient temperature	-40 °C 130 °C (Operation)
emperature sensors (Pt 1000)	
Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts

108 mm

140.25 mm



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Depth	128.4 mm
Bore dimensions	
Width	117.65 mm
Height	90 mm
Depth	117.65 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
Single wire, cross section	35.00 mm²
Single-core wires for AC	
Cable length	2 m
Cable structure	4 x 6 mm²
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 35 mm²
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 mm ²
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	0.5 m
Cable structure	4 x 0.5 mm ²
Single wire, material	PVC



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Ambient conditions

Degree of protection (Vehicle charging inlet)

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
ingle-core wires for PTC temperature sensors	
Cable length	1 m
Cable structure	2 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BN/GY
	BN/YE/GN
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
ingle-core wires for Pt 1000 temperature sensors	
Cable length	1 m
Cable structure	3 x 0.5 mm ²
Single wire, material	PVC
Single wire, color	BN
	GN
	YE
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
ingle-core wires for communication	
Cable length	1 m
Cable structure	2 x 0.5 mm ²
Single wire, material	PVC
Single wire, color	вк
	WH
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
phanical proportion	
chanical properties	
lechanical data	
Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

are original products from Phoenix Contact or suitable standard-compliant products)
IP67 (Inner area of 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



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Ambient temperature (operation)	-40 °C 40 °C (60°C, maximum (current reduction required, observe the DC contact temperature limit value of 90°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

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

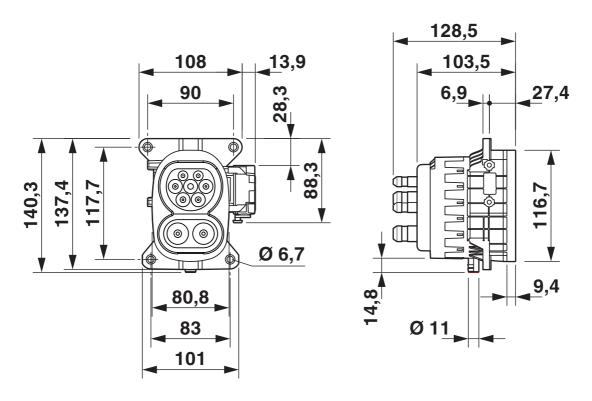


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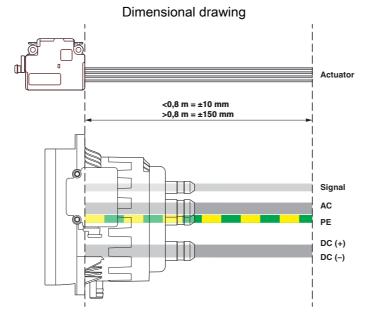
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Drawings

Dimensional drawing



Dimensional drawing

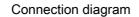


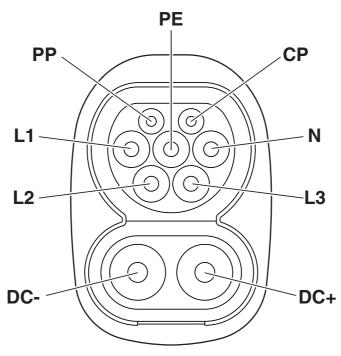
Reference points for measuring the line length



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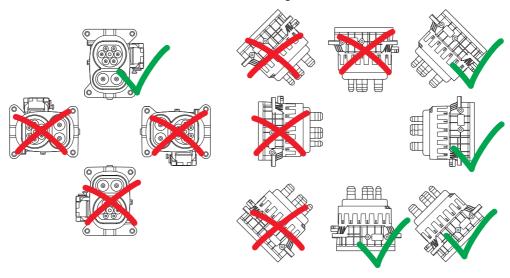
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Pin assignment of vehicle charging inlets

Connection diagram

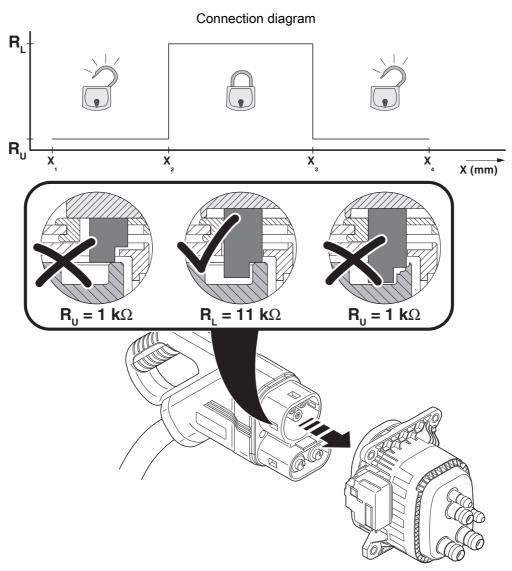


Installation positions

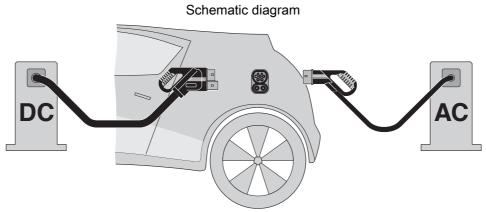


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Detection for Vehicle Connector



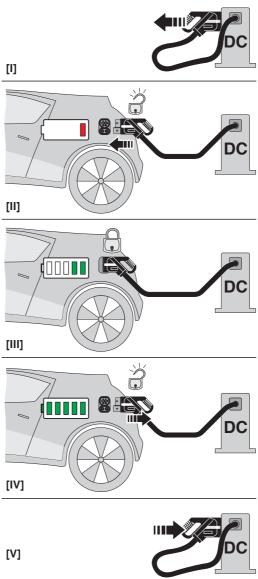
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



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Schematic diagram



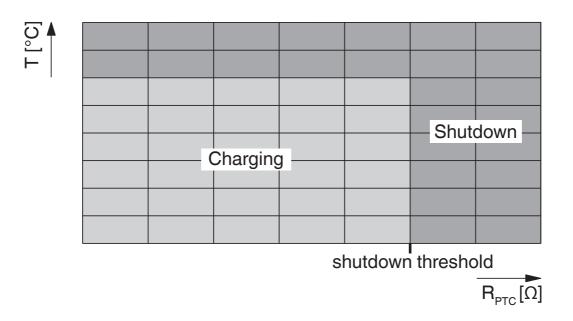
Operating instructions



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Schematic diagram

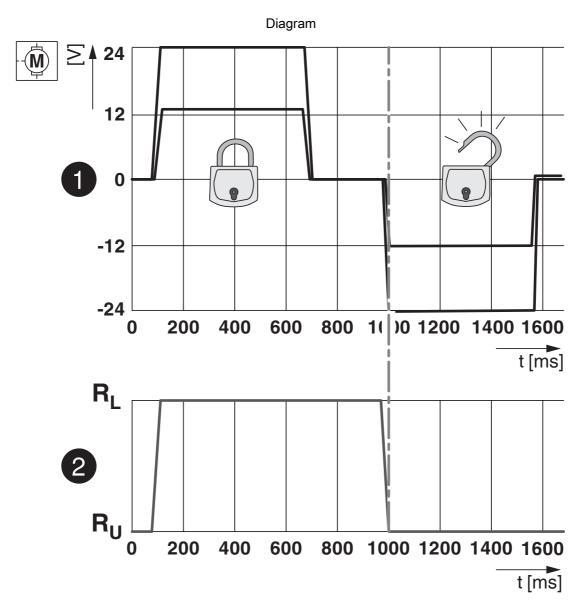


Temperature sensor technology resistance range at AC contacts



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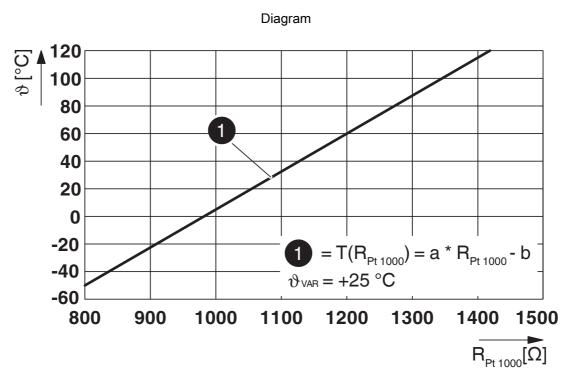


Locking states of the locking actuator



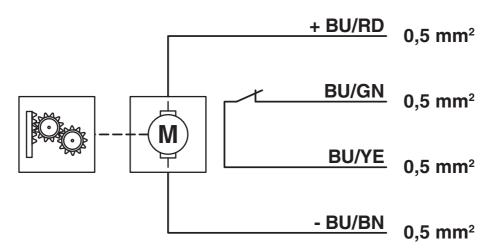
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Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts

Block diagram



Block diagram of the locking actuator



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Classifications

ECLASS

	ECLASS-13.0	27144706		
	ECLASS-15.0	27144706		
ΕT	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-50
	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: n/a)
	Lead(CAS: n/a)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: n/a)
SCIP	2dcc6d59-23f1-485a-be7c-b6082a658604

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