

1720098

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CHARX connect universal, DC CCS Typ 2, Vehicle charging inlet, > 500 A in Boost mode, 325 A permanent, 1000 V DC, Single wires, length: 2 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, for charging with direct current (DC), IEC 62196-1, IEC 62196-2, 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	1720098
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAID
GTIN	4067923269873
Weight per piece (including packing)	8,030 g
Weight per piece (excluding packing)	8,030 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

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General	A protective cap is supplied as standard for the DC contacts.
luct properties	
Product type	Vehicle charging inlet
Product family	CHARX connect universal
Application	for charging with direct current (DC)
	for installation in electric vehicles (EV)
Charging standard	DC CCS Typ 2
Customer variations	On request
etrical properties	
Note on the connection method	Crimp connection, cannot be disconnected
Temperature measurement	DC contacts: 2x PT1000 (DIN EN 60751)
narging power and current (DC charging)	
Type of charging current	DC
Charging current	325 A DC (With cooled HPC vehicle charging connector)
Charging power	325 kW
narging power and current (DC charging in Boost Mode)	
Type of charging current	DC Boost Mode
Charging current	> 500 A DC
Charging power	> 500 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.
n assignment (Leistungskontakte)	
Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
- · ·	325 A DC (With non-cooled vehicle charging connector)
Rated current	,

70121 2 (CP, PP)

30 V AC

> 200 MΩ

 $4.7~\text{k}\Omega$ (between PE and PP)

Locking actuator

Rated current Coding

Insulation resistance

Number Rated voltage



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Locking actuator	12 V, 4-pos.
	Right position
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
Temperature sensors (Pt 1000)	
Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts
·	
aterial specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material ()	Plastic
Material (Contact surface)	Silver
able/line	
Cable length	2 m
Cable type	Single wires
Single-core wires for DC	
Cable length	2 m
Cable structure	2 x 120 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	23.00 mm -0.8 mm
Charles and the for DE	
Single-core wire for PE	2 m
Cable length	
Cable structure	1 x 25 mm²
Single wire, material	Silicone
Single wire, color	GN/YE
External cable diameter	8.60 mm ±0.1 mm
Single-core wires for locking actuator	
Cable length	1.5 m
Cable structure	4 x 0.5 mm²



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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 temperature concern	
Single-core wires for temperature sensors Cable length	1 m
Cable structure	3 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BN
Single wire, color	GN
	YE
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
Cable resistance	2 37.1 Ω/ΙΙΙ
Single-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
Single-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
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)	IP6K5
Ambient temperature (operation)	-40 °C 40 °C (60°C, maximum (current reduction required, observe the DC contact temperature limit value of 90°C))



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

IEC 62196-1 IEC 62196-2 IEC 62196-3

Mounting

Standards/regulations

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

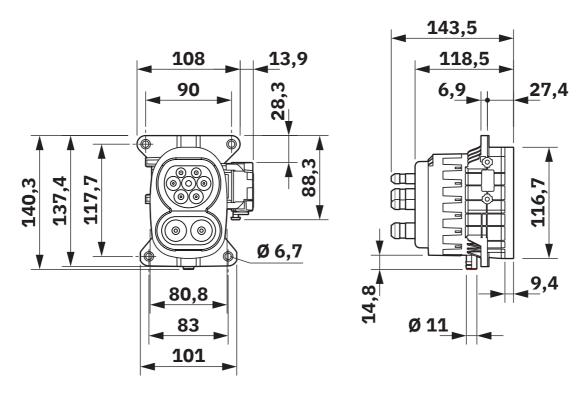


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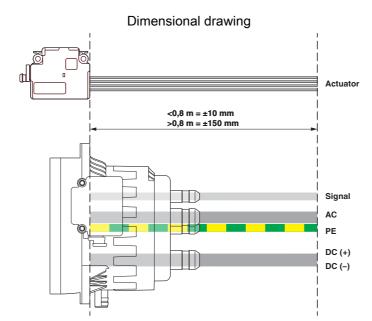
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Drawings

Dimensional drawing



Dimensional drawing

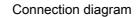


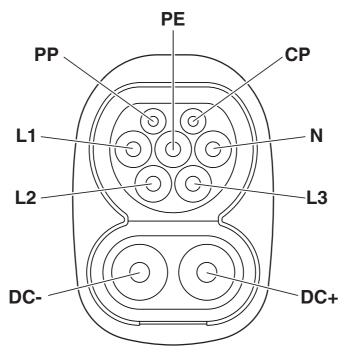
Reference points for measuring the line length



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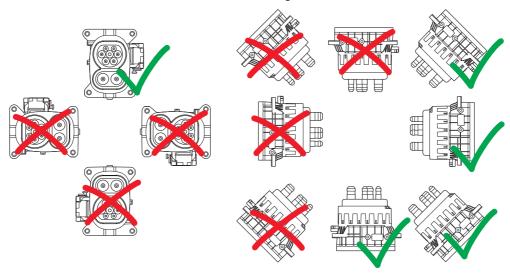
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Pin assignment of vehicle charging inlets

Connection diagram

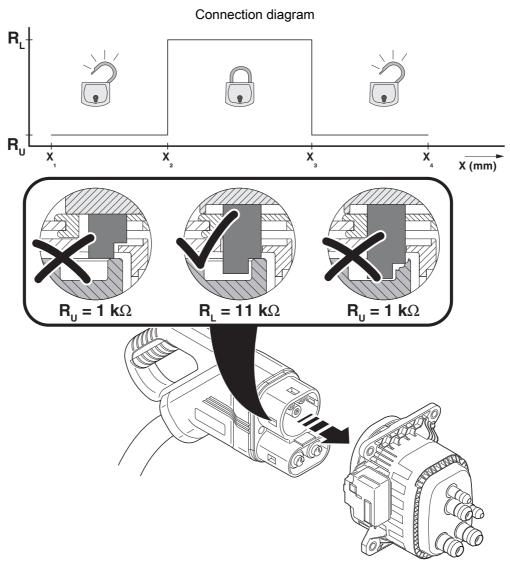


Installation positions

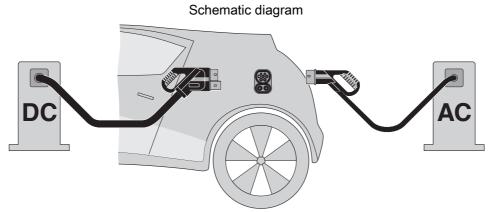


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Detection for Vehicle Connector



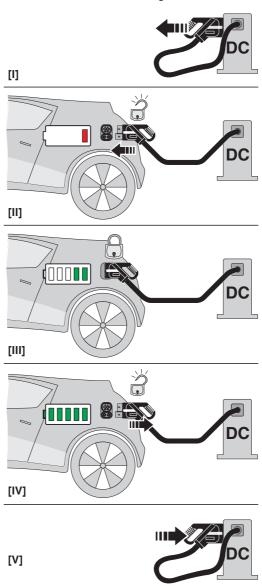
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



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Operating instructions



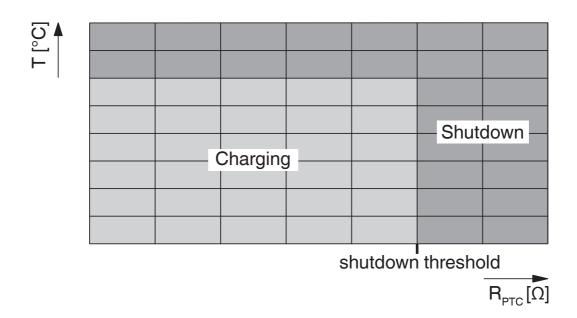
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+ BU/RD 0,5 mm² R1 BU/GN 0,5 mm² R2 1k 10k BU/YE 0,5 mm² -BU/BN 0,5 mm²

Block diagram of the locking actuator

Schematic diagram

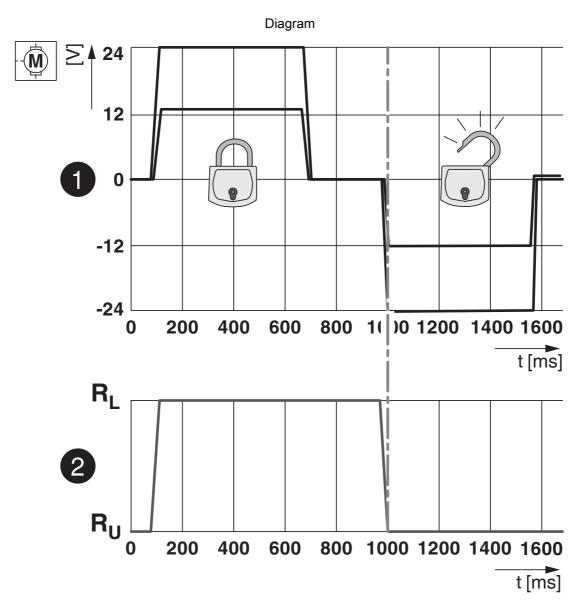


Temperature sensor technology resistance range at AC contacts



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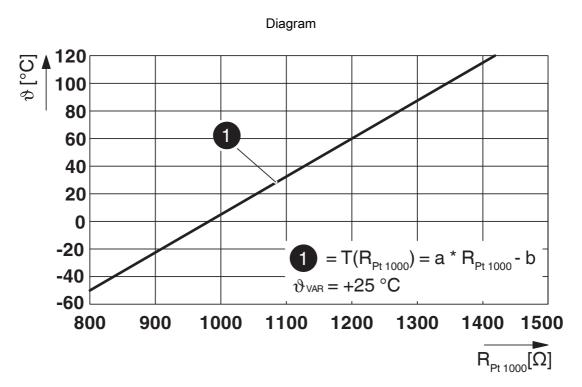


Locking states of the locking actuator



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



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Classifications

ETIM 9.0

ECLASS

	ECLASS-13.0	27144706
	ECLASS-15.0	27144706
ΕT	ТМ	

EC002898



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(c)-I
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: 15571-58-1)
	Lead(CAS: 7439-92-1)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)

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