

1376690

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CHARX connect universal, Vehicle charging inlet, for charging with direct current (DC), CCS type 1, IEC 62196-2, IEC 62196-3, 250 A / 1000 V (DC), Single wires, length: 6 m, locking actuator: 12 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 1 CCS vehicle charging connectors (SE), 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	1376690
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAIB
GTIN	4063151740788
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 contacts.		
duct properties			
Product type	Vehicle charging inlet CHARX connect universal		
Product family			
Application	for charging with direct current (DC)		
	for installation in electric vehicles (EV)		
Technology	Combined Charging System CCS type 1		
Charging standard			
Charging mode	Mode 4		
ctrical 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 kΩ (between PE and CS)		
Temperature measurement	DC contacts: 2x PT1000 (DIN EN 60751) DC 250 kW		
Type of charging current			
Charging power			
Charging current	250 A		
ower contact			
Number	5 (L1, N, PE, DC+, DC-)		
Rated voltage	1000 V DC		
Rated current	250 A DC		
gnal contact			
Number	2 (CP, CS)		
Rated voltage	30 V AC		
Rated current	2 A		
emperature sensors (Pt 1000)			
Sensor type	Pt 1000		
Standards/regulations	DIN EN 60751		
Attachment point	2 sensors for the DC contacts		
ocking actuator			
Operating voltage	12 V		
Note number of positions	4-pos.		
Position of the locking actuator	top center		



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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
terial specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver

Cable length	6 m	
Cable type	Single wires	

Single-core wires for DC

Cable length	6 m
Cable structure	2 x 95 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	20.6 mm ±0.3 mm
Cable resistance	≤ 0.196 Ω/km

Single-core wire for PE

Single-core wire for PE				
Cable length	6 m			
Cable structure	1 x 25 mm²			
Single wire, material	Silicone			
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	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	1.6 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 mm²		
Single wire, material	PVC		
Single wire, color	BN		
	GN		
	YE		
External cable diameter	1.6 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	1.6 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



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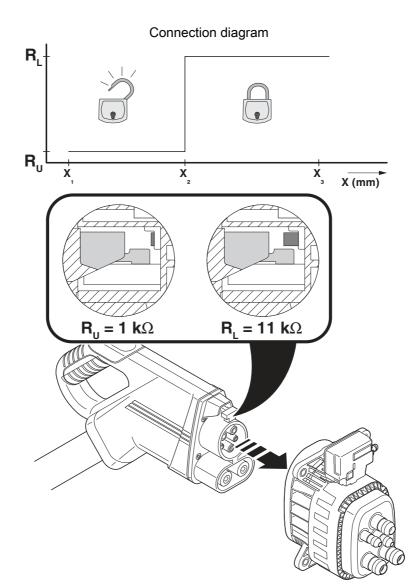
		SAE J1772				
Мс	Mounting					
	Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)				
	Mounting hole diameter	6.70 mm (ø)				
	Fixing screws	M6				
	Screws included in the scope of delivery	none				



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Drawings



Detection for Vehicle Connector



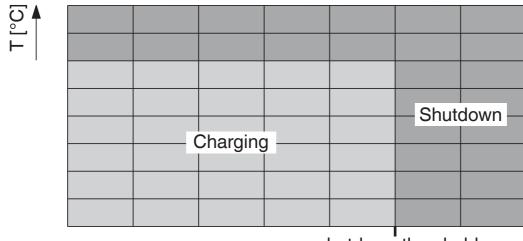
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Connection diagram

Pin assignment of vehicle charging inlets

Schematic diagram



shutdown threshold

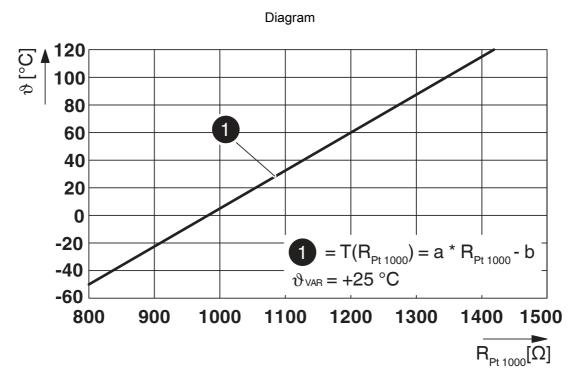


Temperature sensor technology resistance range at AC contacts

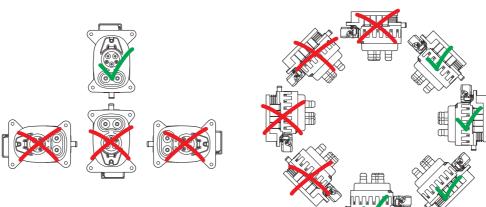


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Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts



Connection diagram

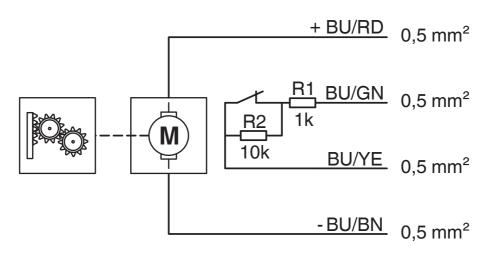
Installation positions



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Schematic diagram

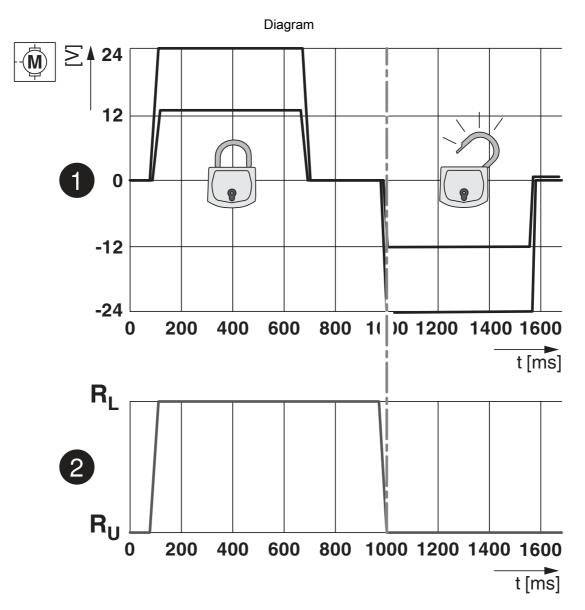


Block diagram of the locking actuator



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Locking states of the locking actuator



27,4

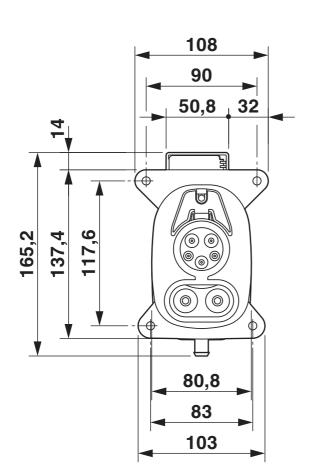
9,4

116,7

Ø 11

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Dimensional drawing

13,8

122,8

97,9

6,9

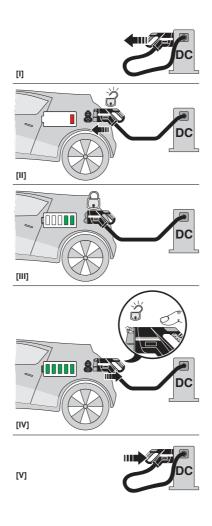
Dimensional drawing



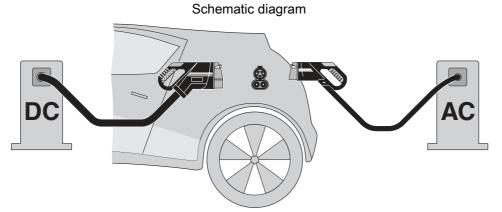
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Schematic diagram



Operating instructions



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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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1376690

e Alus A	CULus Recognize	20210730			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		1000 V	250 A	-	-



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Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC002898		
U	UNSPSC			
	UNSPSC 21.0	39121800		



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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 T1HBI-DUST-COVER-SET - Protective cover

1305482 https://www.phoenixcontact.com/us/products/1305482



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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com