

1270310

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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, 125 A / 1000 V (DC), 32 A / 480 V (AC), Single wires, length: 2 m, locking actuator: 12 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 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	1270310
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAID
GTIN	4063151440589
Weight per piece (including packing)	4,546 g
Weight per piece (excluding packing)	4,546 g
Customs tariff number	85444290
Country of origin	PL



A protective cap is supplied as standard for the DC and AC

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Technical data

General

Notes

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	

contacts.

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	125 kW
Charging current	125 A
Type of charging current	DC Boost Mode
Charging power	up to 250 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 250 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
	125 A DC

Signal contact



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Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
Rateu 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
Locking actuator	
Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
Locking actuator Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
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
imensions	447.05
Width	117.65 mm
Height	90 mm
Depth	117.65 mm
aterial specifications	
Color (Housing)	black (9005)



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black (9005)
Plastic
Silver
2 m
Single wires
35.00 mm²
2 m
4 x 6 mm²
Silicone
OG
14.70 mm ±0.2 mm
≤ 3.2 Ω/km
2 m
2 x 35 mm ²
Silicone
OG
14.10 mm ±0.3 mm
≤ 0.527 Ω/km
- 002. 25
2 m
1 x 25 mm²
Silicone
GN/YE
8.60 mm ±0.1 mm
≤ 0.743 Ω/km
1.5 m
4 x 0.5 mm²
PVC
BU/RD, BU/GN, BU/YE, BU/BN
1.60 mm ±0.20 mm
≤ 37.1 Ω/m
1 m
1 m 5 x 0,5 mm ²



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	BN/YE/GN		
External cable diameter	1.60 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		
	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 mm²		
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

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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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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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Classifications

ECLASS

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	ECLASS-11.0	27144706		
	ECLASS-12.0	27144706		
	ECLASS-13.0	27144706		
ETIM				
	ETIM 9.0	EC002898		
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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com