

1379288

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CHARX connect universal, AC type 1, Vehicle charging inlet, 48 A , 250 V AC, Single wires, length: 5 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, for charging electric vehicles with alternating current (AC), IEC 62196-2, SAE J1772, A protective cap is supplied as standard for the AC contacts.

Product description

Vehicle charging inlet for charging with alternating current (AC), compatible with type 1 AC 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	1379288
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAIA
GTIN	4063151748586
Weight per piece (excluding packing)	101 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 AC contacts.
duct properties	
Product type	Vehicle charging inlet
Product family	CHARX connect universal
Application	for charging electric vehicles with alternating current (AC)
	for installation in electric vehicles (EV)
Charging standard	AC type 1
Charging mode	Mode 2, 3
Customer variations	On request
ectrical properties	
ectrical properties Note on the connection method	Crimp connection, cannot be disconnected
	Crimp connection, cannot be disconnected AC contacts: PTC chain (DIN EN 60738-1)
Note on the connection method	
Note on the connection method Temperature monitoring	
Note on the connection method Temperature monitoring Charging power and current (AC charging (1-phase))	AC contacts: PTC chain (DIN EN 60738-1)

Pin assignment (Leistungskontakte)

Number	3 (L1, N, PE)
Rated voltage	250 V AC
Rated current	48 A AC

Pin 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, CS)
Rated voltage	30 V AC
Rated current	2 A
Coding	2.7 kΩ (between PE and CS)
Insulation resistance	> 200 MΩ

Locking actuator

Looking doldator	
Locking actuator	12 V, 4-pos.
	Top center 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



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Single-core wires for locking actuator

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 (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. 1200 Ω ±5 K
Recommended measured current	≤ 1 mA (U _{max} = 16 V DC)
Ambient temperature	-40 °C 130 °C (Operation)
Dimensions	
Vehicle charging inlet	
Width	90 mm
Height	90 mm
Depth	112.2 mm
Bore dimensions	
Width	73 mm
Height	73 mm
Depth	73 mm
Material specifications	
Material specifications Color (Housing)	black (9005)
	black (9005) black (9005)
Color (Housing)	
Color (Housing) Color (Mating face)	black (9005)
Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface)	black (9005) Plastic
Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line	black (9005) Plastic Silver
Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line Cable length	black (9005) Plastic Silver 5 m
Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line	black (9005) Plastic Silver
Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line Cable length Cable type Single-core wires for AC	black (9005) Plastic Silver 5 m
Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line Cable length Cable type	black (9005) Plastic Silver 5 m
Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line Cable length Cable type Single-core wires for AC	black (9005) Plastic Silver 5 m Single wires
Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line Cable length Cable type Single-core wires for AC Cable length	black (9005) Plastic Silver 5 m Single wires
Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line Cable length Cable type Single-core wires for AC Cable length Cable structure	black (9005) Plastic Silver 5 m Single wires 5 m 3 x 6 mm²
Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line Cable length Cable type Single-core wires for AC Cable length Cable structure Single wire, material	black (9005) Plastic Silver 5 m Single wires 5 m 3 x 6 mm² Silicone



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Cable length	1.5 m
Cable structure	4 x 0.5 mm²
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 sensors	
Cable length	1 m
Cable structure	5 x 0,5 mm ²
Single wire, color	BN/GY
	BN/YE/GN
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	< 75 N
Withdrawal force	< 75 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

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Standards/regulations	IEC 62196-2
	SAE J1772



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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

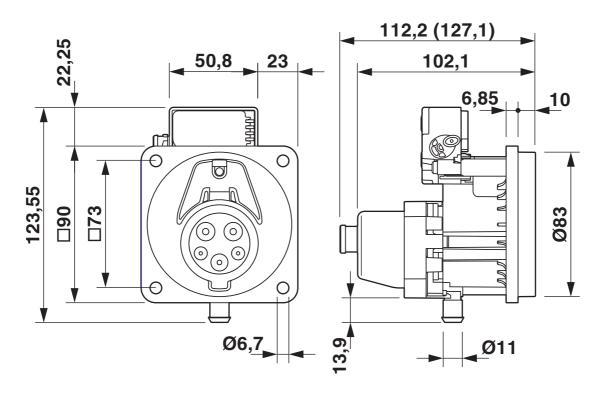


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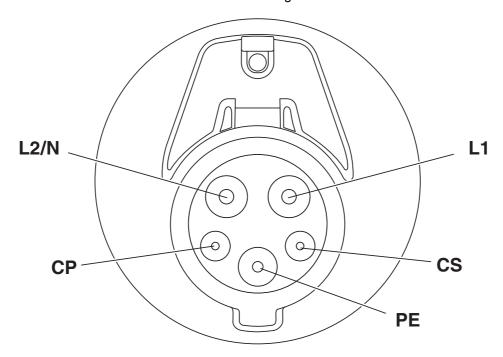
Drawings

Dimensional drawing



Dimensional drawing

Connection diagram

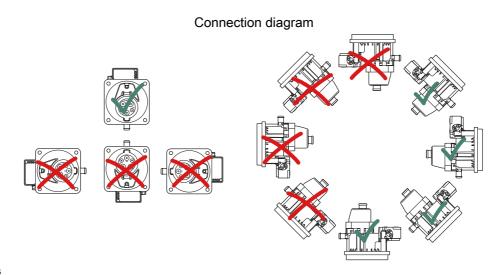


Pin assignment of vehicle charging inlets

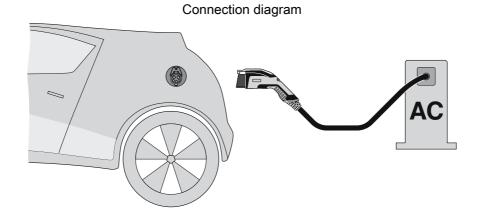


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Installation positions



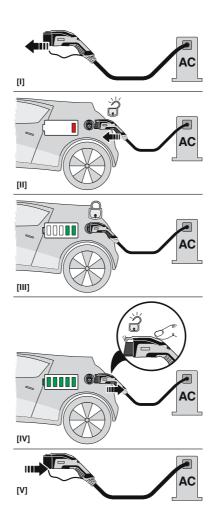
Terminology definition



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Functional drawing



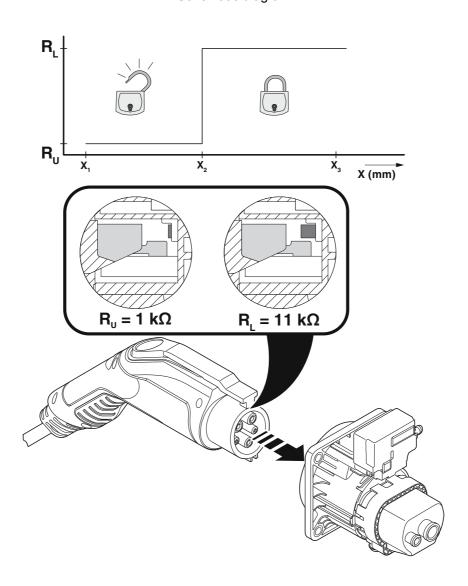
Operating instructions



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Schematic diagram



Detection for Vehicle Connector



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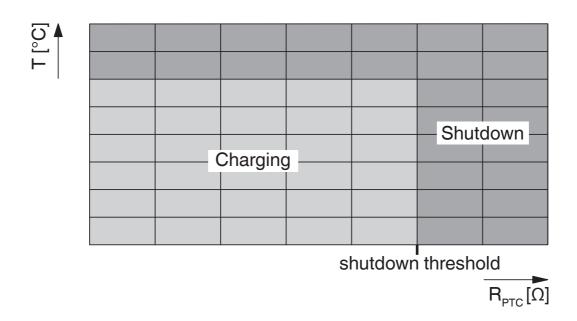
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+ BU/RD 0,5 mm² R1 BU/GN 0,5 mm² R2 1k 10k BU/YE 0,5 mm²

Block diagram of the locking actuator

Schematic diagram

-BU/BN 0,5 mm²

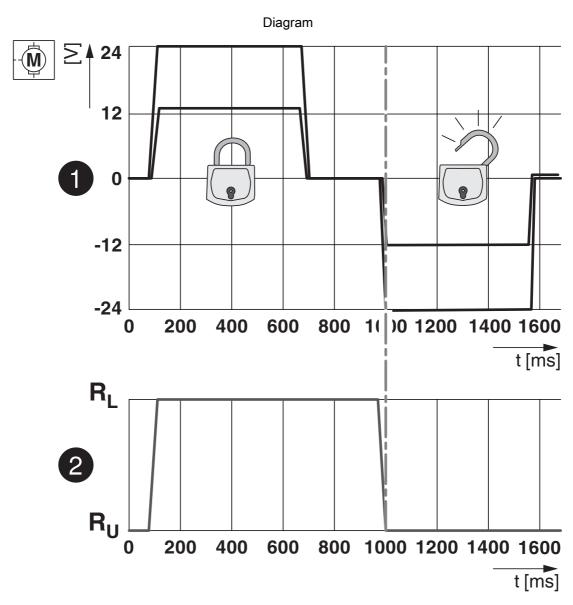


Temperature sensor technology resistance range at AC contacts



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Locking states of the locking actuator



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Classifications

ECLASS

	ECLASS-13.0	27144706	
	ECLASS-15.0	27144706	
ETIM			
	ETIM 9.0	EC002898	
UNSPSC			
	UNSPSC 21.0	39121800	



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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.)	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)(CAS: 573-58-0)
	Lead(CAS: 7439-92-1)
	Bis(2-(2-methoxyethoxy)ethyl)ether(CAS: n/a)
SCIP	

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