

1379288

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CHARX connect universal, Vehicle charging inlet, for charging electric vehicles with alternating current (AC), AC type 1, IEC 62196-2, SAE J1772, 48 A / 250 V (AC), Single wires, length: 5 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, 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
Product key	XWCAIA
GTIN	4063151748586
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 AC contacts.	
Product 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	

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	$2.7~k\Omega$ (between PE and CS)
Temperature monitoring	AC contacts: PTC chain (DIN EN 60738-1)
Type of charging current	AC single-phase
Charging power	12 kW
Charging current	48 A

Power contact

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

Signal contact

Number	2 (CP, CS)
Rated voltage	30 V AC
Rated 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. 1200 Ω ±5 K
Recommended measured current	≤ 1 mA (U _{max} = 16 V DC)
Ambient temperature	-40 °C 130 °C (Operation)

Locking actuator

Operating voltage	12 V



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Note number of positions	4-pos.
Position of the locking actuator	top center
Locking actuator	
Operating voltage	12 V
Note number of positions	
	4-pos.
Position of the locking actuator	top center 9 V 16 V
Possible power supply range at the motor	
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	1s
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
mensions	
Width	73 mm
Height	73 mm
Depth	73 mm
terial specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
ble/line	
Cable length	5 m
Cable type	Single wires
	Chilgie White
Single-core wires for AC	
Cable length	5 m
Cable structure	3 x 6 mm²
Single wire, material	Silicone
Single wire, color	
	OG
External cable diameter	13.80 mm ±0.3 mm
External cable diameter Cable resistance	
	13.80 mm ±0.3 mm
Cable resistance	13.80 mm ±0.3 mm
Cable resistance Single-core wires for locking actuator	13.80 mm ±0.3 mm ≤ 3.2 Ω/km



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BU/RD, BU/GN, BU/YE, BU/BN		
1.60 mm ±0.20 mm		
≤ 37.1 Ω/m		
Single-core wires for temperature sensors		
1 m		
5 x 0,5 mm²		
BN/GY		
BN/YE/GN		
1.60 mm ±0.20 mm		
≤ 37.1 Ω/m		
Single-core wires for communication		
1 m		
2 x 0.5 mm²		
PVC		
ВК		
WH		
1.60 mm ±0.20 mm		
≤ 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

Standards/regulations	IEC 62196-2
	SAE J1772

Mounting

Mounting type	Front and rear mounting (0 to 90 degree frontal inclination



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	possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none

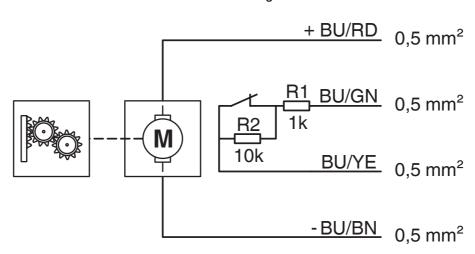


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Drawings

Schematic diagram



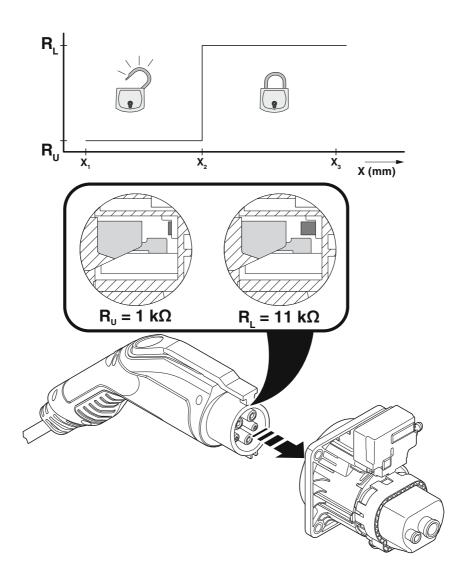
Block diagram of the locking actuator



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Schematic diagram



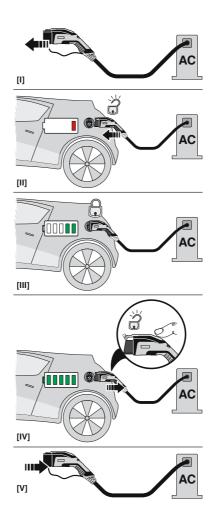
Detection for Vehicle Connector



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Functional drawing



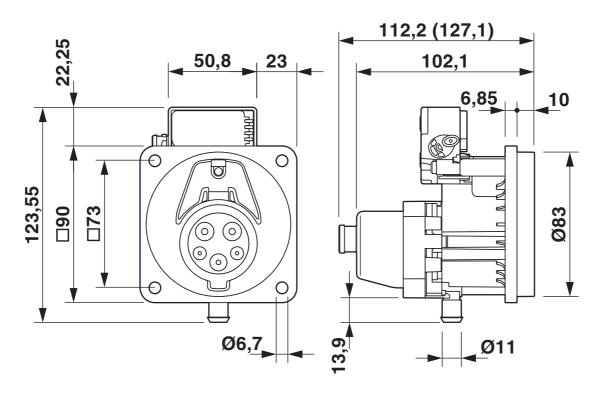
Operating instructions



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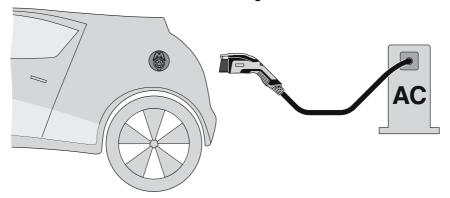
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Dimensional drawing



Dimensional drawing



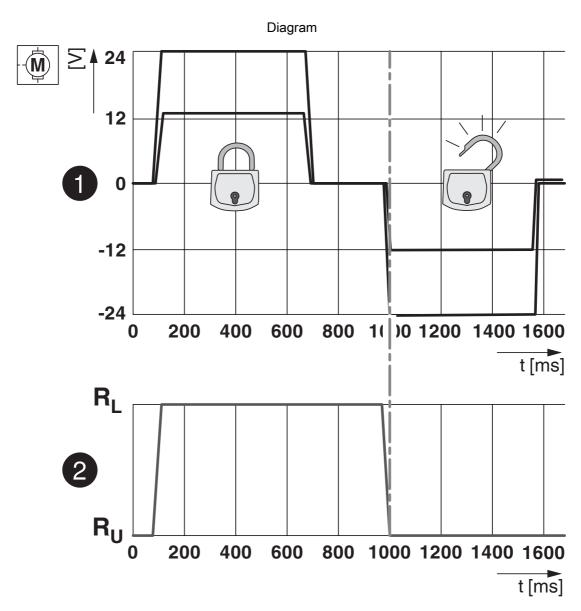


Terminology definition



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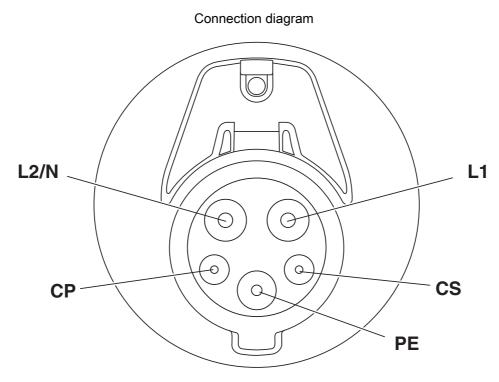


Locking states of the locking actuator

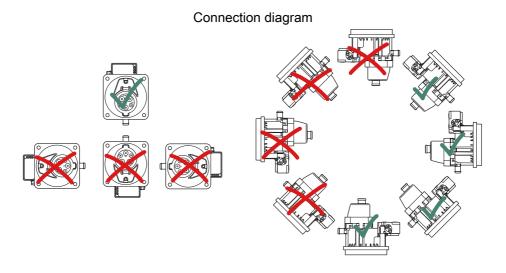


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Pin assignment of vehicle charging inlets



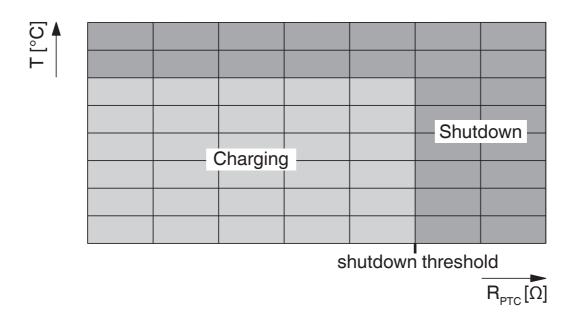
Installation positions



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Schematic diagram



Temperature sensor technology resistance range at AC contacts



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27144706	
	ECLASS-12.0	27144706	
	ECLASS-13.0	27144706	
ETIM			
	ETIM 9.0	EC002898	
UNSPSC			

39121800



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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-10
	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)
SCIP	186e7108-9a7a-48ea-9805-b37d3b4954c3

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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg +49 (0) 5235-3 00 info@phoenixcontact.com