

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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Reverse current of the motor

Max. dwell time with reverse current

#### Technical data

tes	
General	A protective cap is supplied as standard for the AC contacts.
oduct 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	
Note on the connection method	Crimp connection, cannot be disconnected
Temperature monitoring	AC contacts: PTC chain (DIN EN 60738-1)
Charging power and current (AC charging (1-phase))	
Type of charging current	AC single-phase
Charging current	48 A AC (1-phase)
Charging power	12 kW
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	
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

max. 1.5 A

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 <sub>max</sub> = 16 V DC)
Ambient temperature	-40 °C 130 °C (Operation)
	,
Dimensions	
Vakiala aharsing inlat	
Vehicle charging inlet Width	90 mm
	90 mm
Height Depth	112.2 mm
Бериі	112.2 11111
Bore dimensions	
Width	73 mm
Height	73 mm
Depth	73 mm
Material specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
Cable/line	
Cable length	5 m
Cable type	Single wires
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
Cable resistance	≤ 3.2 Ω/km



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Cable length	1.5 m
Cable structure	4 x 0.5 mm <sup>2</sup>
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
ingle-core wires for temperature sensors	
Cable length	1 m
Cable structure	5 x 0,5 mm <sup>2</sup>
Single wire, color	BN/GY
	BN/YE/GN
External cable diameter	1.60 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 <sup>2</sup>
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

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

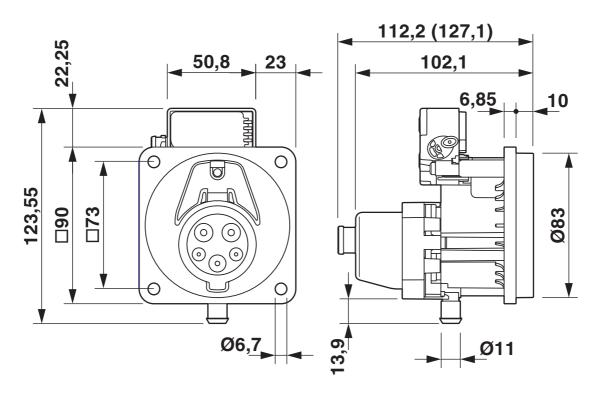


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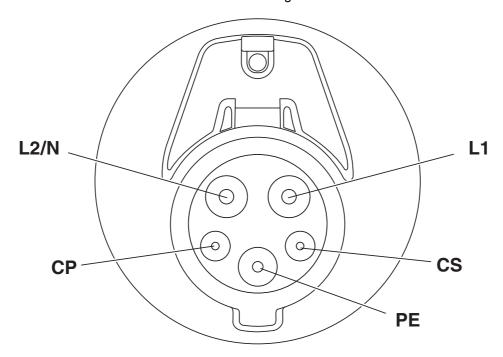
## Drawings

#### Dimensional drawing



Dimensional drawing

#### Connection diagram

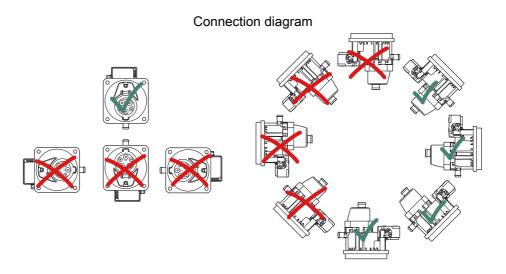


Pin assignment of vehicle charging inlets

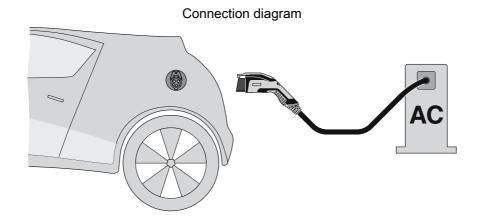


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#### Installation positions



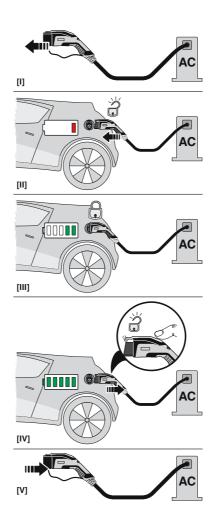
Terminology definition



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#### Functional drawing



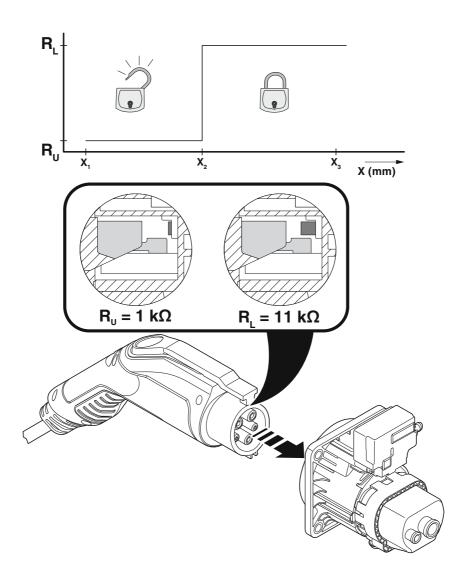
Operating instructions



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#### Schematic diagram



**Detection for Vehicle Connector** 



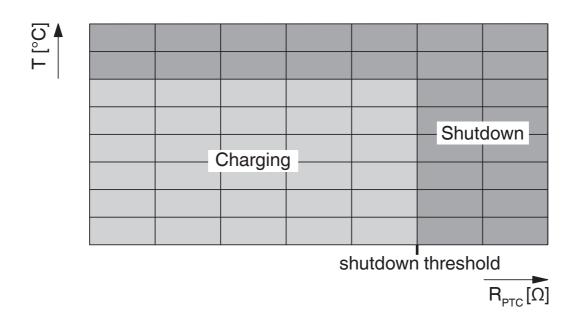
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# + BU/RD 0,5 mm<sup>2</sup> R1 BU/GN 0,5 mm<sup>2</sup> R2 1k 10k BU/YE 0,5 mm<sup>2</sup> -BU/BN 0,5 mm<sup>2</sup>

Block diagram of the locking actuator

#### Schematic diagram

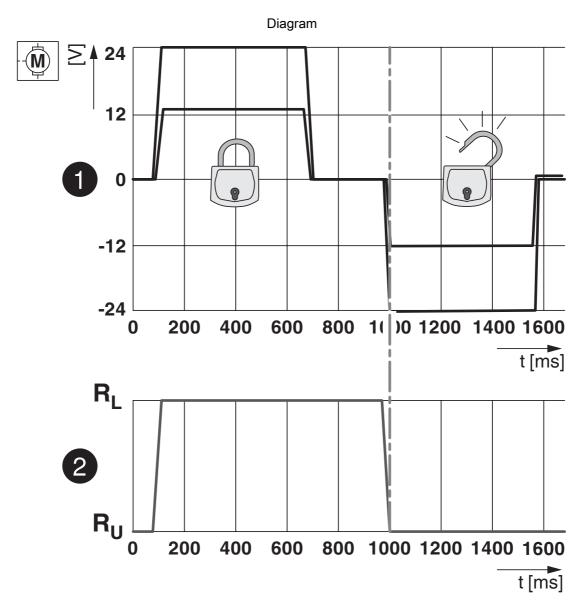


Temperature sensor technology resistance range at AC contacts



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Locking states of the locking actuator



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27144706
	ECLASS-15.0	27144706
EI	TIM	
	IIVI	
	ETIM 9.0	EC002898
UN	NSPSC	
0.	101 00	
	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: 143-24-8)

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