

1379288

https://www.phoenixcontact.com/us/products/1379288

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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
Customs tariff number	85444290
Country of origin	PL



A protective cap is supplied as standard for the AC contacts.

1379288

https://www.phoenixcontact.com/us/products/1379288

Technical data

General

Product properties		
Product type	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

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 AC (1-phase)

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



1379288

https://www.phoenixcontact.com/us/products/1379288

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
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

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

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	

Single-core wires for locking actuator

~	~	
Cable length		1.5 m



1379288

https://www.phoenixcontact.com/us/products/1379288

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 mm²
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 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

Thou and 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



1379288

https://www.phoenixcontact.com/us/products/1379288

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

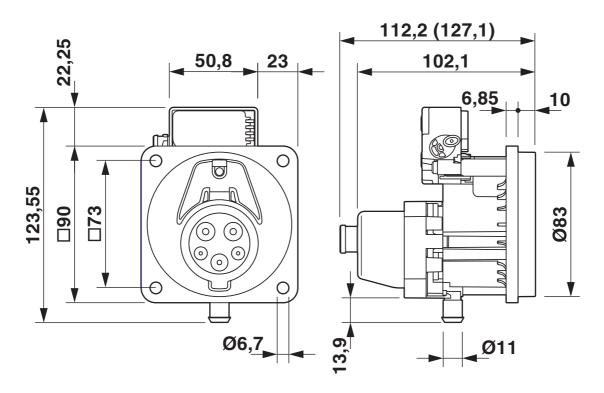


1379288

https://www.phoenixcontact.com/us/products/1379288

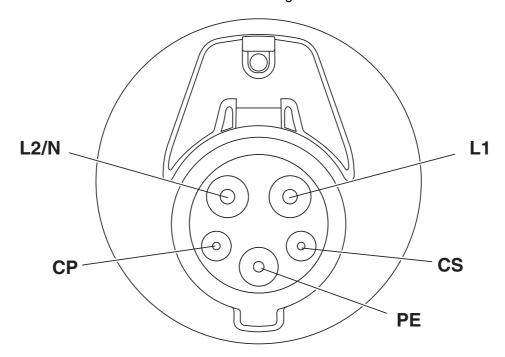
Drawings

Dimensional drawing



Dimensional drawing

Connection diagram

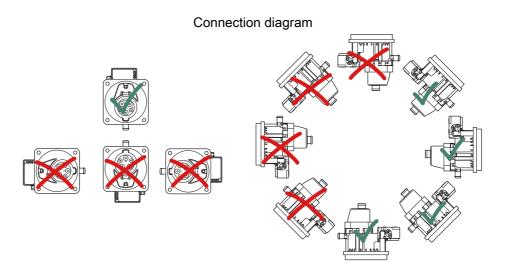


Pin assignment of vehicle charging inlets

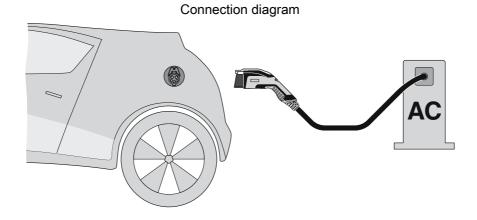


1379288

https://www.phoenixcontact.com/us/products/1379288



Installation positions



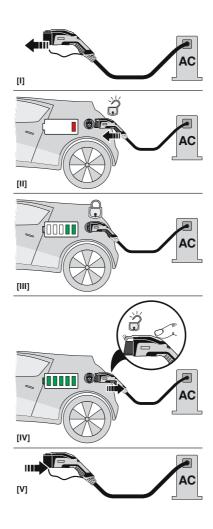
Terminology definition



1379288

https://www.phoenixcontact.com/us/products/1379288

Functional drawing



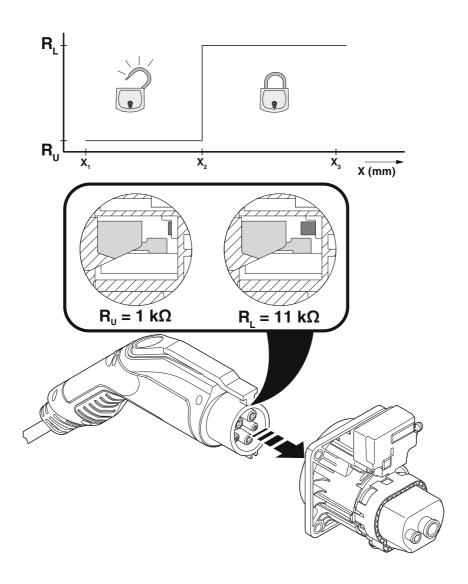
Operating instructions



1379288

https://www.phoenixcontact.com/us/products/1379288

Schematic diagram



Detection for Vehicle Connector



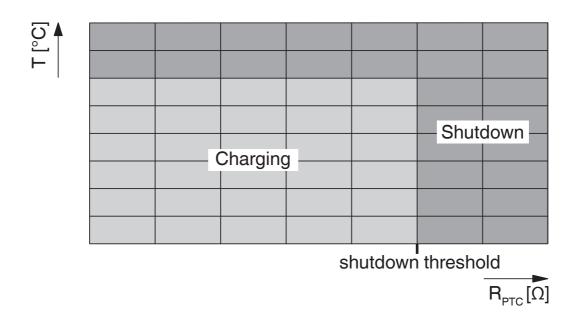
1379288

https://www.phoenixcontact.com/us/products/1379288

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

Block diagram of the locking actuator

Schematic diagram

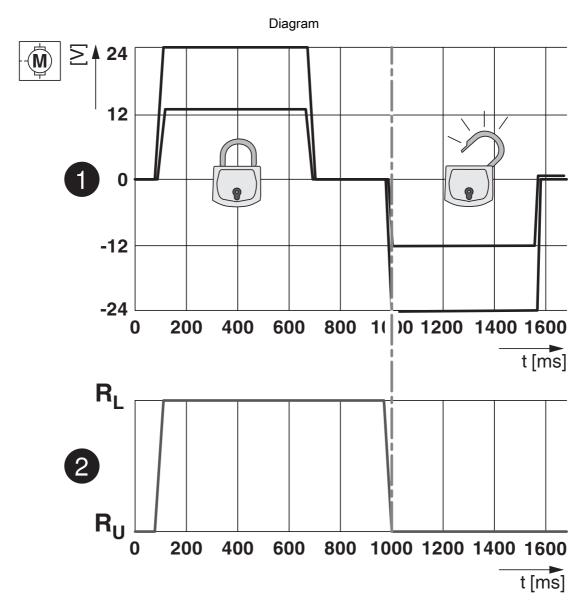


Temperature sensor technology resistance range at AC contacts



1379288

https://www.phoenixcontact.com/us/products/1379288



Locking states of the locking actuator



1379288

https://www.phoenixcontact.com/us/products/1379288

Classifications

EC	CLASS	
	ECLASS-13.0	27144706
ΕΊ	ГІМ	
	ETIM 9.0	EC002898
U	NSPSC	
	UNSPSC 21.0	39121800



1379288

https://www.phoenixcontact.com/us/products/1379288

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-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)
	Bis(2-(2-methoxyethoxy)ethyl)ether(CAS: 143-24-8)

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

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