

1379294

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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, 80 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	1379294
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAIA
GTIN	4063151747770
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

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Vehicle charging inlet
CHARX connect universal
for charging electric vehicles with alternating current (AC)
for installation in electric vehicles (EV)
AC type 1
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 kΩ (between PE and CS)
Temperature monitoring	AC contacts: PTC chain (DIN EN 60738-1)
Type of charging current	AC single-phase
Charging power	20 kW
Charging current	80 A

Power contact

Number	3 (L1, N, PE)
Rated voltage	250 V AC
Rated current	80 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)



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Single wire, material

External cable diameter

Single wire, color

Cable resistance

Single-core wire for PE

Locking actuator	
Operating voltage	12 V
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
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
(-	10 0 00 0
	10 0 00 0
	73 mm
Dimensions	
Dimensions Width	73 mm
Dimensions Width Height Depth	73 mm 73 mm
Dimensions Width Height Depth Material specifications	73 mm 73 mm 73 mm
Dimensions Width Height Depth Material specifications Color (Housing)	73 mm 73 mm 73 mm black (9005)
Dimensions Width Height Depth Material specifications Color (Housing) Color (Mating face)	73 mm 73 mm 73 mm
Dimensions Width Height Depth Material specifications Color (Housing)	73 mm 73 mm 73 mm black (9005) black (9005)
Dimensions Width Height Depth Material specifications Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface)	73 mm 73 mm 73 mm black (9005) black (9005) Plastic
Dimensions Width Height Depth Material specifications Color (Housing) Color (Mating face) Material (Housing)	73 mm 73 mm 73 mm black (9005) black (9005) Plastic
Dimensions Width Height Depth Material specifications Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line	73 mm 73 mm 73 mm black (9005) black (9005) Plastic Silver
Dimensions Width Height Depth Material specifications Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line Cable length Cable type	73 mm 73 mm 73 mm black (9005) black (9005) Plastic Silver
Dimensions Width Height Depth Material specifications Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line Cable length Cable type Single-core wires for AC	73 mm 73 mm 73 mm black (9005) black (9005) Plastic Silver
Dimensions Width Height Depth Material specifications Color (Housing) Color (Mating face) Material (Housing) Material (Contact surface) Cable/line Cable length Cable type	73 mm 73 mm 73 mm black (9005) black (9005) Plastic Silver 5 m Single wires

Silicone

9.90 mm ±0.3 mm \leq 1.16 Ω/km

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5 m 1 x 16 mm² Silicone GN/YE 7.00 mm ±0.2 mm
Silicone GN/YE
GN/YE
7.00 mm ±0.2 mm
≤ 1.16 Ω/km
1.5 m
4 x 0.5 mm ²
PVC
BU/RD, BU/GN, BU/YE, BU/BN
1.60 mm ±0.20 mm
≤ 37.1 Ω/m
1 m
5 x 0,5 mm²
BN/GY
BN/YE/GN
1.60 mm ±0.20 mm
≤ 37.1 Ω/m
1 m
2 x 0.5 mm ²
PVC
BK
WH
1.60 mm ±0.20 mm

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)



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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

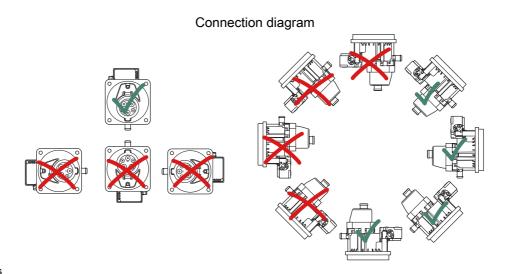
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



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Drawings



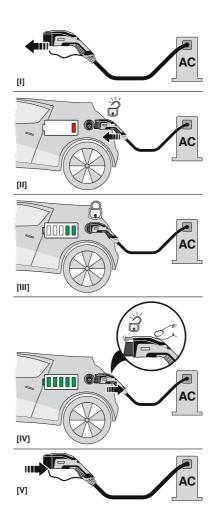
Installation positions



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Functional drawing

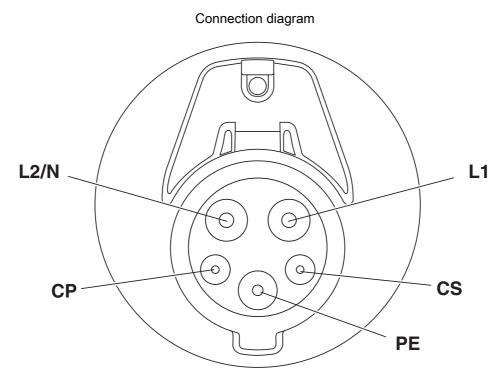


Operating instructions



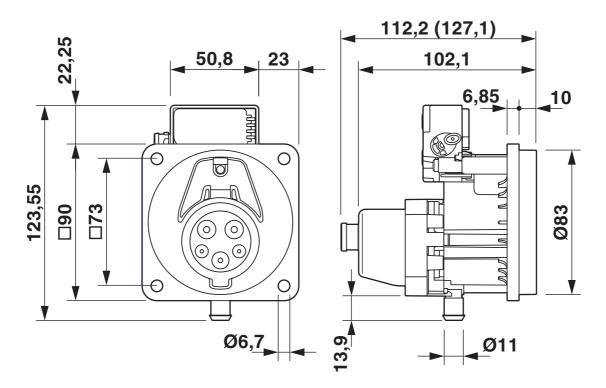
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Pin assignment of vehicle charging inlets

Dimensional drawing



Dimensional drawing



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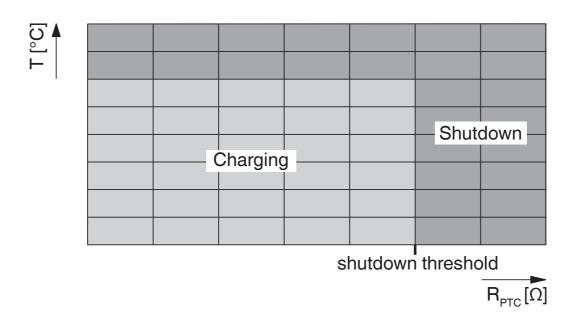
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+ BU/RD 0,5 mm² R1 BU/GN 0,5 mm² R2 1k 10k BU/YE 0,5 mm²

Block diagram of the locking actuator

Schematic diagram

-BU/BN 0,5 mm²



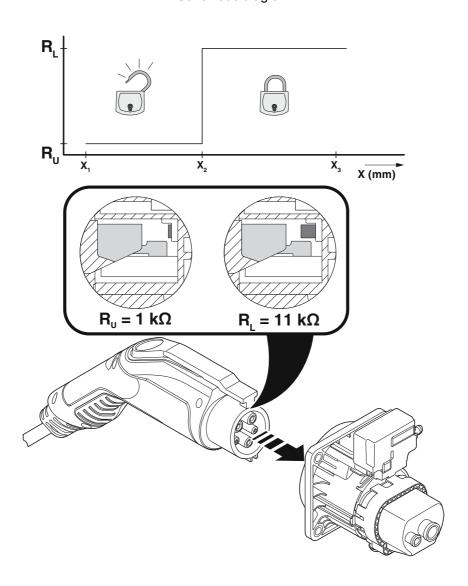
Temperature sensor technology resistance range at AC contacts



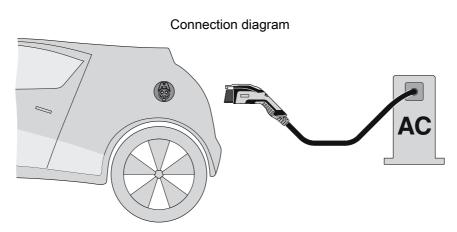
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Schematic diagram



Detection for Vehicle Connector

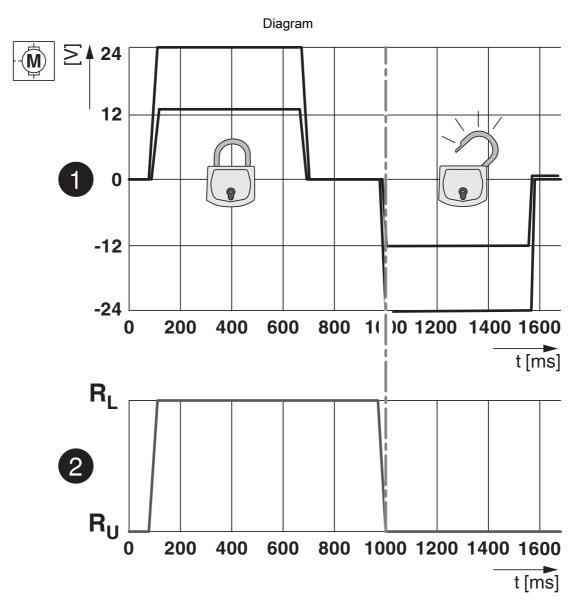


Terminology definition



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Locking states of the locking actuator



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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)-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.)	Lead(CAS: 7439-92-1)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	58ca9b1d-ee5f-4426-9dc5-503c1bbd7a5f
JUIF	300a9010-ee31-4420-9003-303010007a31

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