

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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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 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
Messbereich_Widerstand	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)

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
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
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aterial specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
	black (3003)
Material (Housing)	Plastic
Material (Housing) Material (Contact surface)	Plastic
Material (Housing) Material (Contact surface) able/line	Plastic Silver
Material (Housing) Material (Contact surface) able/line Cable length	Plastic Silver 5 m
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Material (Housing) Material (Contact surface) able/line Cable length	Plastic Silver 5 m
Material (Housing) Material (Contact surface) able/line Cable length Cable type	Plastic Silver 5 m
Material (Housing) Material (Contact surface) Able/line Cable length Cable type Single-core wires for AC	Plastic Silver 5 m Single wires
Material (Housing) Material (Contact surface) Able/line Cable length Cable type Single-core wires for AC Cable length	Plastic Silver 5 m Single wires
Material (Housing) Material (Contact surface) Able/line Cable length Cable type Single-core wires for AC Cable length Cable structure	Plastic Silver 5 m Single wires 5 m 2 x 16 mm²
Material (Housing) Material (Contact surface) Able/line Cable length Cable type Single-core wires for AC Cable length Cable structure Single wire, material	Plastic Silver 5 m Single wires 5 m 2 x 16 mm² Silicone
Material (Housing) Material (Contact surface) Able/line Cable length Cable type Single-core wires for AC Cable length Cable structure Single wire, material Single wire, color	Plastic Silver 5 m Single wires 5 m 2 x 16 mm² Silicone OG
Material (Housing) Material (Contact surface) Able/line Cable length Cable type Single-core wires for AC Cable length Cable structure Single wire, material Single wire, color External cable diameter Cable resistance	Plastic Silver 5 m Single wires 5 m 2 x 16 mm² Silicone OG 9.9 mm ±0.3 mm
Material (Housing) Material (Contact surface) Able/line Cable length Cable type Single-core wires for AC Cable length Cable structure Single wire, material Single wire, color External cable diameter Cable resistance Single-core wire for PE	Plastic Silver 5 m Single wires 5 m 2 x 16 mm² Silicone OG 9.9 mm ±0.3 mm ≤ 1.16 Ω/km
Material (Housing) Material (Contact surface) Able/line Cable length Cable type Single-core wires for AC Cable length Cable structure Single wire, material Single wire, color External cable diameter Cable resistance Single-core wire for PE Cable length	Plastic Silver 5 m Single wires 5 m 2 x 16 mm² Silicone OG 9.9 mm ±0.3 mm ≤ 1.16 Ω/km
Material (Housing) Material (Contact surface) Able/line Cable length Cable type Single-core wires for AC Cable length Cable structure Single wire, material Single wire, color External cable diameter Cable resistance Single-core wire for PE Cable length Cable structure	Plastic Silver 5 m Single wires 5 m 2 x 16 mm² Silicone OG 9.9 mm ±0.3 mm ≤ 1.16 Ω/km
Material (Housing) Material (Contact surface) Able/line Cable length Cable type Single-core wires for AC Cable length Cable structure Single wire, material Single wire, color External cable diameter Cable resistance Single-core wire for PE Cable length Cable structure	Plastic Silver 5 m Single wires 5 m 2 x 16 mm² Silicone OG 9.9 mm ±0.3 mm ≤ 1.16 Ω/km 5 m 1 x 16 mm² Silicone
Material (Housing) Material (Contact surface) Able/line Cable length Cable type Single-core wires for AC Cable length Cable structure Single wire, material Single wire, color External cable diameter Cable resistance Single-core wire for PE Cable length Cable structure	Plastic Silver 5 m Single wires 5 m 2 x 16 mm² Silicone OG 9.9 mm ±0.3 mm ≤ 1.16 Ω/km



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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	1.6 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	1.6 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	1.6 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

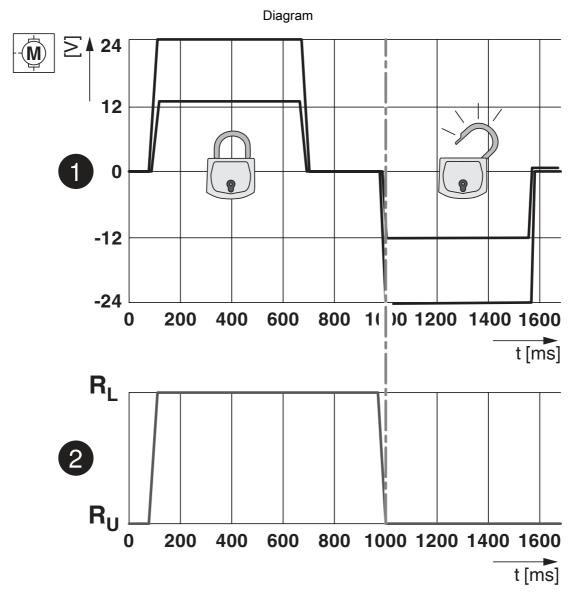
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



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Drawings



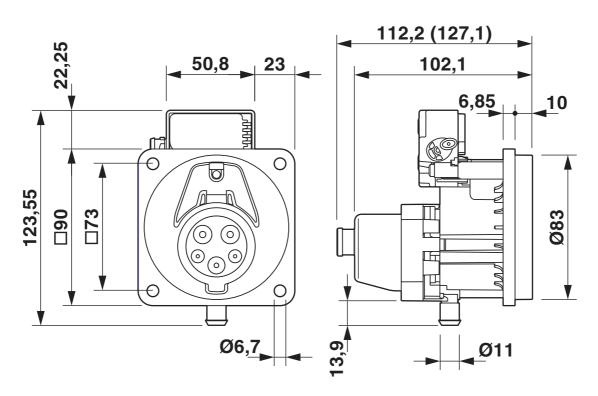
Locking states of the locking actuator



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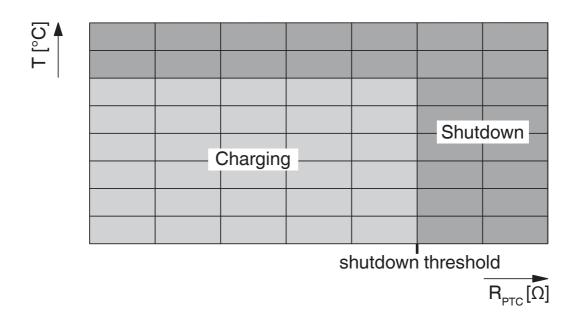
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Dimensional drawing



Dimensional drawing

Schematic diagram

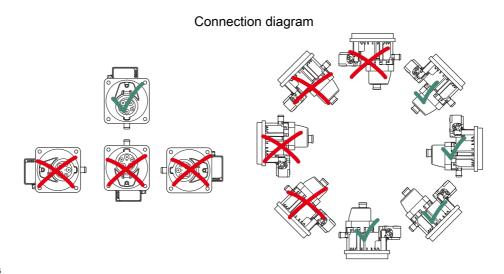


Temperature sensor technology resistance range at AC contacts

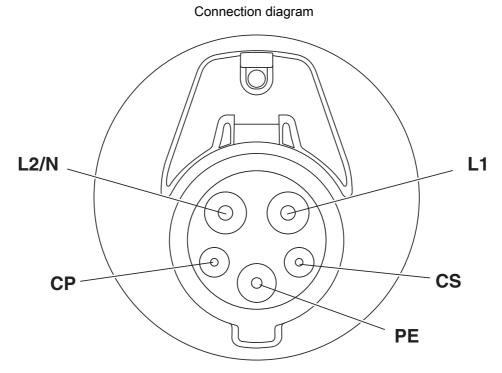


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Installation positions



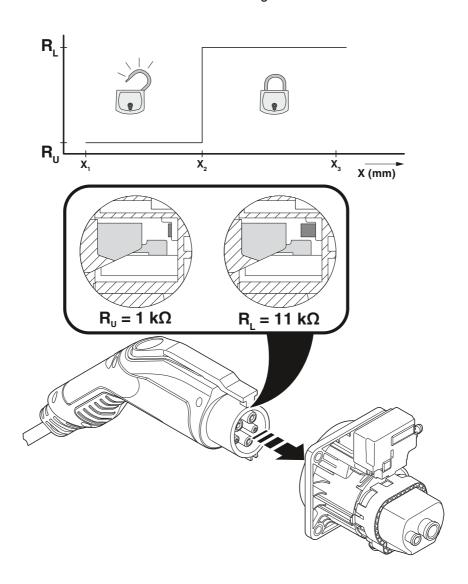
Pin assignment of vehicle charging inlets



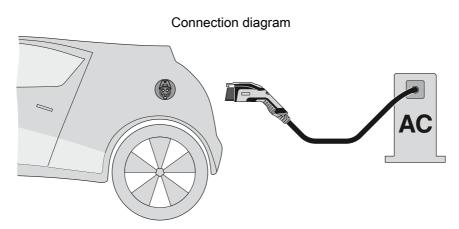
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Schematic diagram



Detection for Vehicle Connector



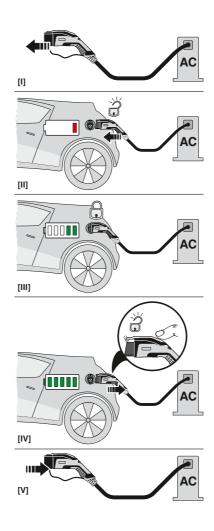
Terminology definition



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Functional drawing



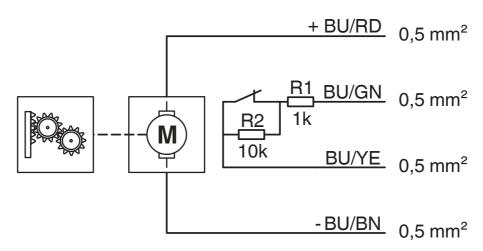
Operating instructions



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Schematic diagram



Block diagram 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 8.0	EC002898
UNSPSC	

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Environmental product compliance

REACh SVHC	Lead 7439-92-1
	Dechlorane Plus
China RoHS	Environmentally Friendly Use Period = 10;
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