

1271966

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CHARX connect universal, Vehicle charging inlet, for charging electric vehicles (EV) with alternating current (AC), AC type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: 2 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 2 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	1271966
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWCAIC
GTIN	4063151463182
Weight per piece (including packing)	1,798 g
Weight per piece (excluding packing)	1,798 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Notes

duct properties	
Product type	Vehicle charging inlet
Product family	CHARX connect universal
Application	for charging electric vehicles (EV) with alternating current (AC)
	for installation in electric vehicles (EV)
Charging standard	AC type 2
Charging mode	Mode 2, 3
ctrical properties	Pulse width modulation with modulated Powerline
	communication in accordance with ISO/IEC 15118 / DIN SPEC
Type of signal transmission	communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Type of signal transmission Note on the connection method	communication in accordance with ISO/IEC 15118 / DIN SPEC 70121 Crimp connection, cannot be disconnected
Type of signal transmission Note on the connection method Insulation resistance	communication in accordance with ISO/IEC 15118 / DIN SPEC 70121 Crimp connection, cannot be disconnected > 200 MΩ
Type of signal transmission Note on the connection method Insulation resistance Coding	communication in accordance with ISO/IEC 15118 / DIN SPEC 70121 Crimp connection, cannot be disconnected > 200 MΩ 4.7 kΩ (between PE and PP)
Type of signal transmission Note on the connection method Insulation resistance Coding Temperature monitoring	communication in accordance with ISO/IEC 15118 / DIN SPEC 70121 Crimp connection, cannot be disconnected > 200 MΩ 4.7 kΩ (between PE and PP) AC contacts: PTC chain (DIN□EN□60738-1)

Power contact

Number	5 (L1, L2, L3, N, PE)
Rated voltage	480 V AC
Rated current	32 A AC

Signal contact

Number	2 (CP, PP)
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. 1280 Ω ±5 K
Recommended measured current	\leq 1 mA (U _{max} = 16 V DC)
Ambient temperature	-40 °C 130 °C (Operation)

Locking actuator

Operating voltage



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Note number of positions	4-pos.
Position of the locking actuator	right-side
Locking actuator	
Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
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
mensions	
Width	73 mm
Height	73 mm
Depth	73 mm
aterial specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
able/line	
Cable length	2 m
Cable type	Single wires
Single-core wires for AC	
Cable length	2 m
Cable structure	5 x 6 mm ²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	15.90 mm ±0.3 mm
Cable resistance	≤ 3.2 Ω/km
Single-core wire for PE	



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Cable length	1.5 m
Cable structure	4 x 0.5 mm ²
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 PTC temperature sensors	
Cable length	1 m
Cable structure	2 x 0.5 mm ²
Single wire, material	PVC
Single wire, color	BN/GY
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 ²
Single wire, material	PVC
Single wire, color	ВК
	WH

Mechanical properties

Cable resistance

External cable diameter

Mechanical data	
Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

1.60 mm ±0.20 mm

≤ 37.1 Ω/m

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



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Mounting

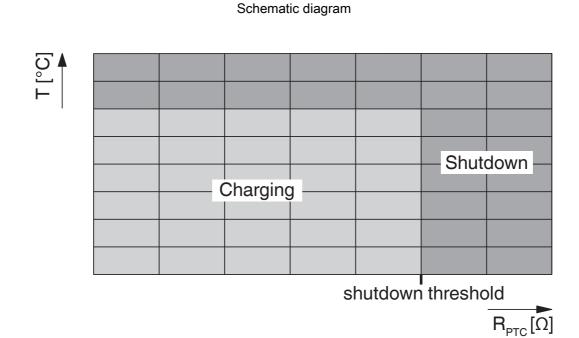
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.80 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



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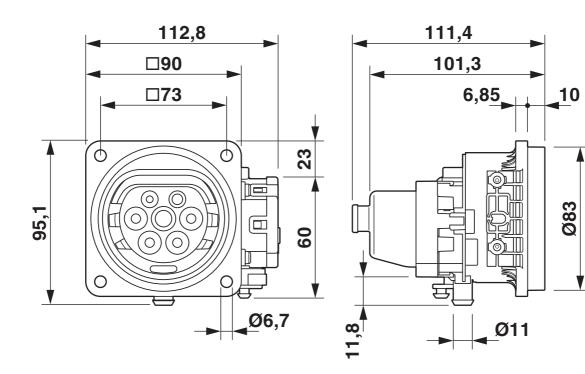
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Drawings



Temperature sensor technology resistance range at AC contacts

Dimensional drawing

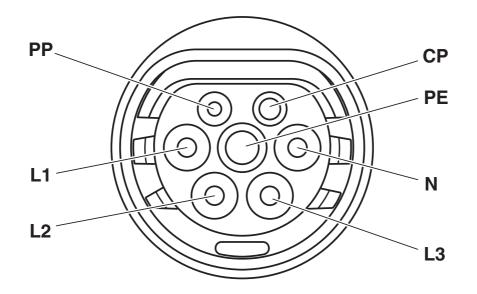




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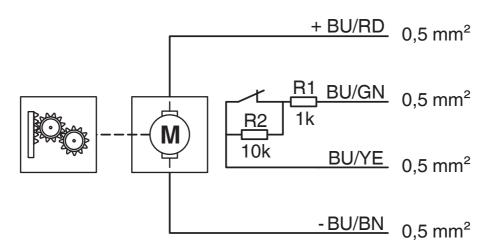
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Connection diagram



Pin assignment of vehicle charging inlets

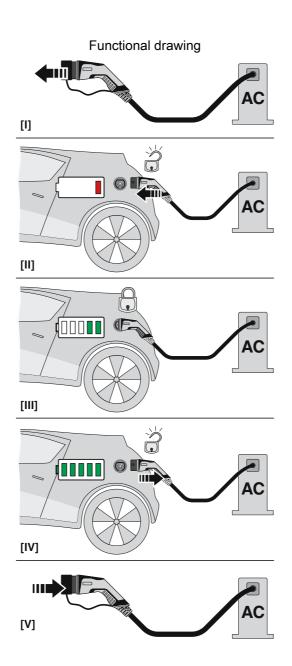
Schematic diagram



Block diagram of the locking actuator



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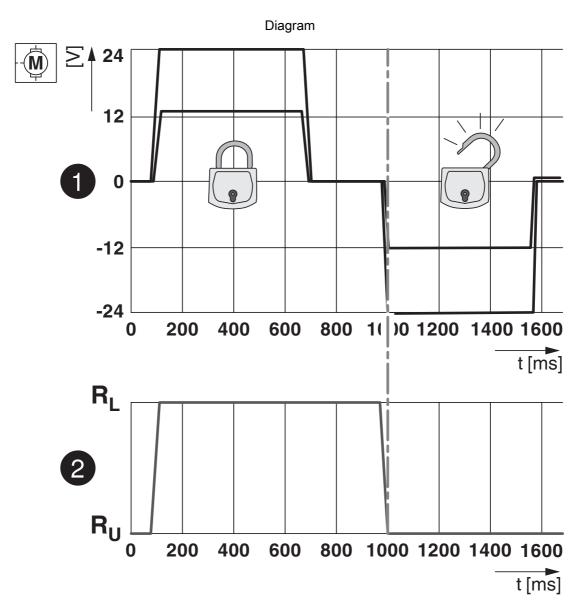


Operating instructions



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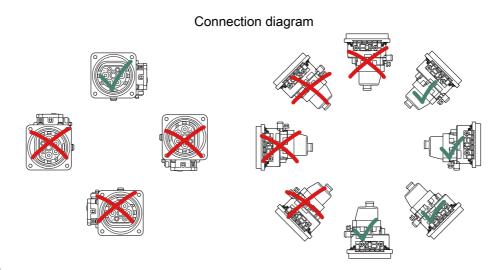


Locking states of the locking actuator



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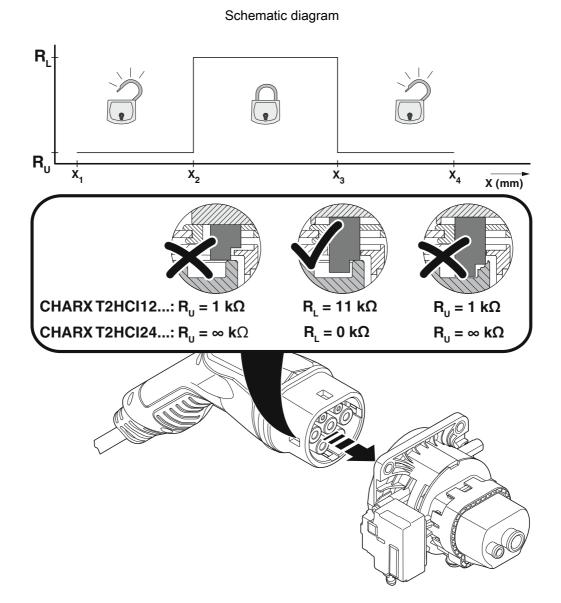


Installation positions



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Detection for Vehicle Connector



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Classifications

ECLASS

ECLASS-11.0	27144706
ECLASS-12.0	27144706
ECLASS-13.0	27144706

ETIM

ETIM 9.0 EC	C002898
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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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