

1271836

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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: 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 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	1271836
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWCAIA
GTIN	4063151463618
Weight per piece (including packing)	1,925 g
Weight per piece (excluding packing)	1,925 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

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

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	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)

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
	12 V
Maximum voltage for locking detection	0.25 A
Typical motor current for locking	
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	
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	2 m
Cable type	Single wires
	Ciligio Hilloc
Single-core wires for AC	
Cable length	2 m
Cable structure	2 x 16 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	9.90 mm ±0.3 mm
Cable resistance	≤ 1.16 Ω/km
Single-core wire for PE	
Cable length	2 m
Cable structure	1 x 16 mm²
Single wire, material	
Single wire, material	Silicone



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Single wire, color	GN/YE
External cable diameter	7.00 mm ±0.2 mm
Cable resistance	≤ 1.16 Ω/km
ngle-core wires for locking actuator	
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
ngle-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
ngle-core wires for communication	4
Cable length	1 m
Cable structure	2 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BK
E to colorable d'acceptant	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)



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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

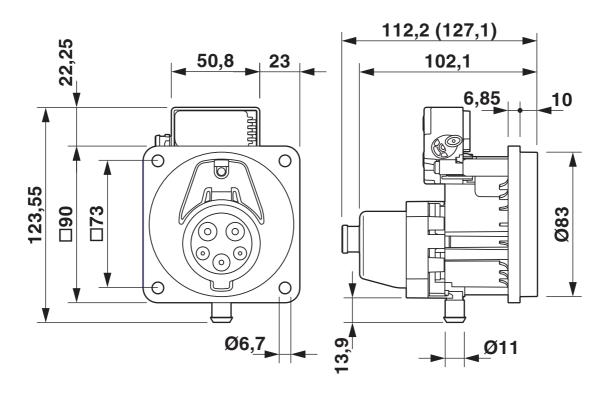


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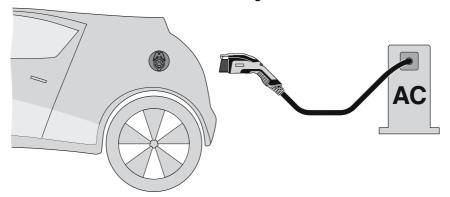
Drawings

Dimensional drawing



Dimensional drawing





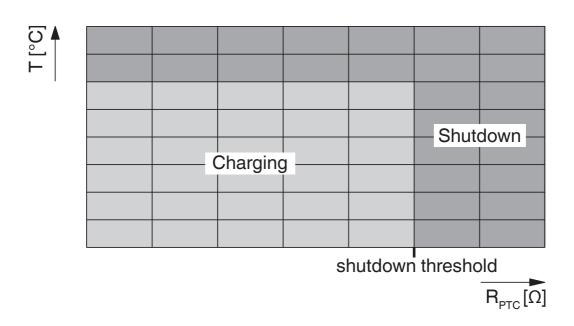
Terminology definition



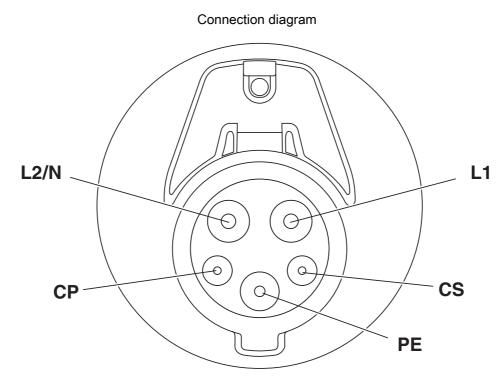
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Schematic diagram



Temperature sensor technology resistance range at AC contacts



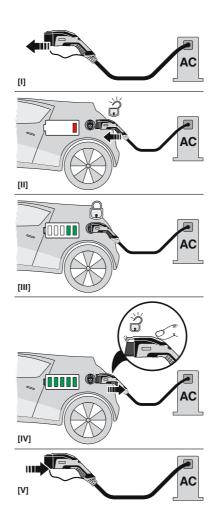
Pin assignment of vehicle charging inlets



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Functional drawing



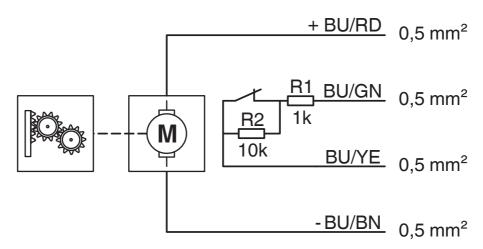
Operating instructions



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Schematic diagram

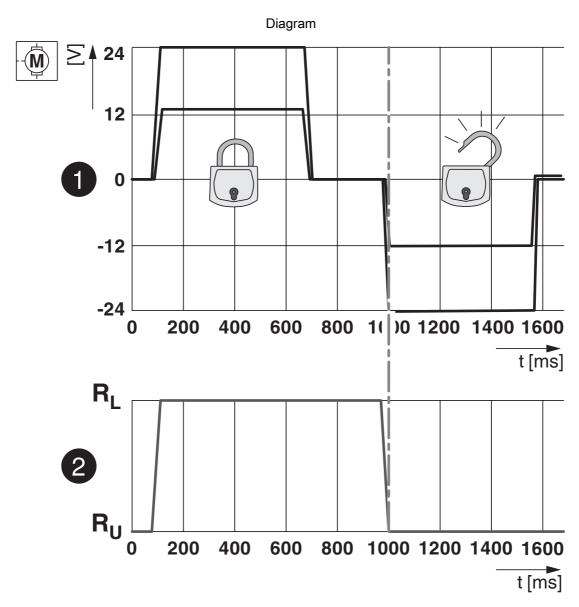


Block diagram of the locking actuator



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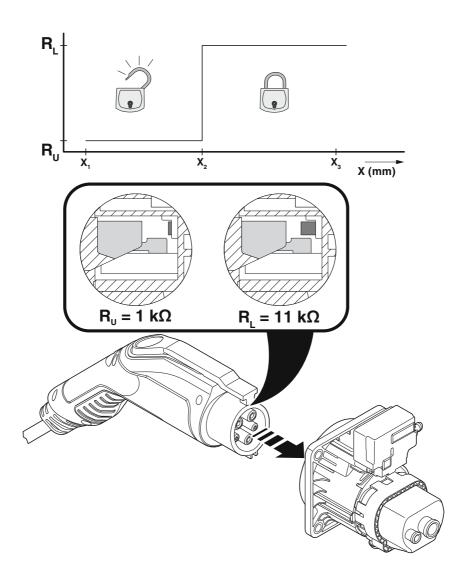
Locking states of the locking actuator



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Schematic diagram

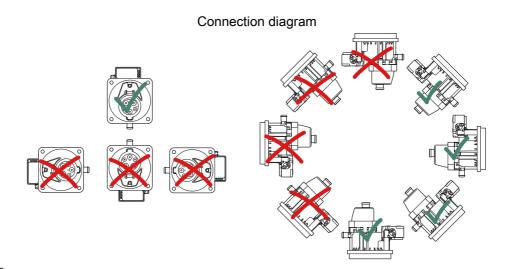


Detection for Vehicle Connector



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Installation positions



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Classifications

UNSPSC 21.0

ECLASS

	501400 440		
	ECLASS-11.0	27144706	
	ECLASS-12.0	27144706	
	ECLASS-13.0	27144706	
ETIM			
	ETIM 9.0	EC002898	
LIN	NSPSC		
Oi			

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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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