

1194398

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CHARX connect, Vehicle charging inlet, for charging with alternating current (AC) and with direct current (DC), CCS type 1, IEC 62196-2, IEC 62196-3, 125 A / 1000 V (DC), 48 A / 250 V (AC), length: 2 m (AC cables), locking actuator: 12 V, 4-pos., Front and rear mounting, M6, X-Line, A protective cap is supplied as standard for the DC and AC contacts.

Product Description

Vehicle charging inlet for charging with alternating current (AC) and direct current (DC), compatible with type 1 AC and CCS vehicle charging connectors (EVSE), for installation in electric vehicles for electromobility (EV).

Commercial Data

Item number	1194398
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	XWCAIB
Product Key	XWCAIB
GTIN	4063151249267
Weight per Piece (including packing)	4,170 g
Weight per Piece (excluding packing)	4,170 g
Country of origin	PL



1194398

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Technical Data

Notes

General	A protective cap is supplied as standard for the DC and AC contacts.
roduct properties	
Product type	Vehicle charging inlet
Application	for charging with alternating current (AC) and with direct current (DC)
	for installation in electric vehicles (EV)
	Combined Charging System
Locking type	Locking in the inserted state with a locking mechanism
Charging standard	CCS type 1
Charging mode	Mode 2, 3, 4

Electrical properties

Type of signal transmission	Pulse width modulation with modulated Powerline communication according to ISO/IEC 15118 / DIN SPEC 70121
Note on the connection method	Crimp connection, cannot be disconnected
Insulation resistance	> 200 MΩ
Coding	2.7 k Ω (between PE and CS)
Temperature measurement	DC contacts: 2x PT1000 (DIN EN 60751)
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
Type of charging current	DC
Charging power	125 kW
Charging current	125 A

Power contact

Number	5 (L1, N, PE, DC+, DC-)
Rated voltage	250 V AC
	1000 V DC
Rated current	48 A AC
	125 A DC

Signal contact

Number	2 (CP, CS)	
Rated voltage	30 V AC	
Rated current	2 A	
Temperature sensors		
Sensor type	PTC chain	
Standards/regulations	DIN□EN 60738-1	



1194398

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Recommended measured current	≤ 1 mA (U _{max} = 16 V DC)
Tolerance at the sensor with the recommended measured current	±5 K
Temperature range	-40 °C 130 °C
Locking actuator	
Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	top center
Locking actuator	
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
Ambient temperature (operation)	-40 °C 80 °C
Cable length	1 m
Cable structure	4 x 0.5 mm²
Lock recognition	available
Mechanical emergency release	available

Dimensions

Dimensional drawing

108 mm

Width	108 mm
Height	151.2 mm
Depth	122.8 mm
Bore dimensions	117.6 mm x 90 mm, 117.6 mm x 83 mm

Material specifications

	Material	Plastic
		Silver
Со	nnector	

Insertion/withdrawal cycles >	> 10000
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1194398

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Cable length	2 m (AC cables)
	2 m (DC cables)
	2 m (PE cable)
	1 m (Locking actuator cables)
	1 m (Temperature sensors cables)
	1 m (Communications cables)
AC cable	
Cable weight	approx. 285 kg/km
Conductor structure	2 x 6 mm ²
External cable diameter	12.6 mm ±0.2 mm
Outer sheath, material	Silicone
External sheath, color	orange
Conductor resistance	≤ 3.2 Ω/km
DC cable	200 Jun / 100 Jun // 100
Cable weight	approx. 482 kg/km
Conductor structure	2 x 35 mm ²
External cable diameter	14.1 mm ±0.3 mm
Outer sheath, material	Silicone
External sheath, color	orange
Conductor resistance	≤ 0.527 Ω/km
PE cable	
Cable weight	approx. 251 kg/km
Conductor structure	1 x 25 mm ²
External cable diameter	8.6 mm ±0.1 mm
Outer sheath, material	Silicone
External sheath, color	green-yellow
Conductor resistance	≤ 0.743 Ω/km
Locking actuator cable	
Cable weight	7 kg/km
Conductor structure	4 x 0.5 mm²
External cable diameter	1.6 mm -0.2 mm
Outer sheath, material	PVC
Conductor resistance	≤ 37.1 Ω/km
Temperature sensor technology cable	
Cable weight	7 kg/km
Conductor structure	5 x 0,5 mm²
External cable diameter	1.6 mm -0.2 mm
Outer sheath, material	PVC
Conductor resistance	≤ 37.1 Ω/km
Ambient temperature (operation)	-40 °C 130 °C
Communication cable	



1194398

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Cable weight	7 kg/km
Conductor structure	0.5 mm² + 0.5 mm²
External cable diameter	1.6 mm -0.2 mm
Outer sheath, material	PVC
Conductor resistance	≤ 37.1 Ω/km
Single wire, cross section	6 mm²

Mechanical properties

echanical data	
Insertion force	< 100 N
Withdrawal force	< 100 N

Environmental and real-life conditions

Ambient conditions	
Degree of protection	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)
Altitude	4000 m (above sea level)

Standards and regulations

Standards

Standards/regulations	IEC 62196-2
	IEC 62196-3
	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

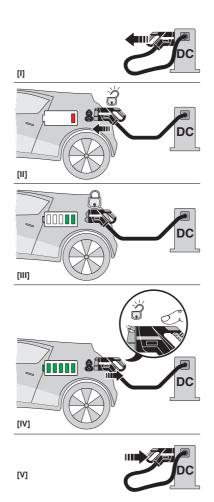


1194398

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Drawings

Schematic diagram

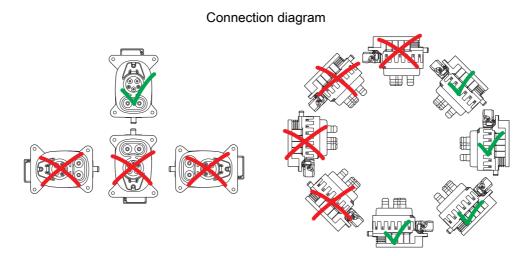


Operating instructions



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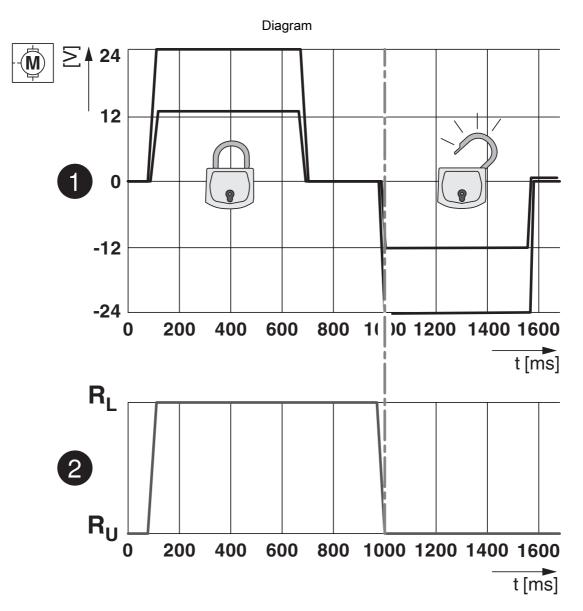


Installation positions



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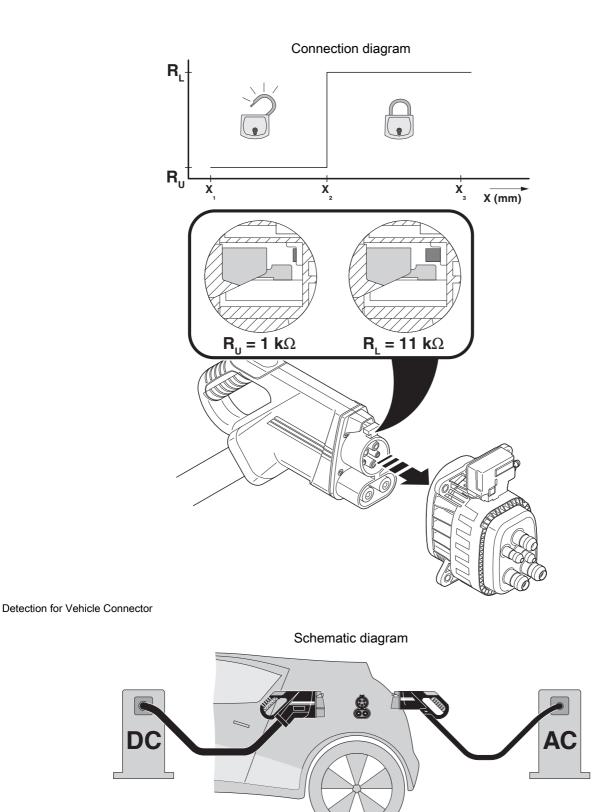


Locking states of the locking actuator



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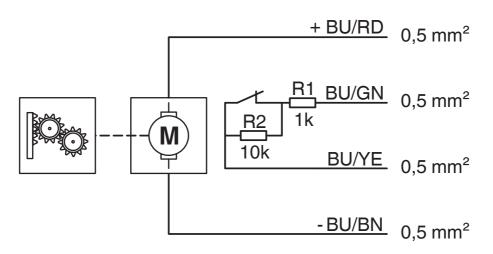
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



1194398

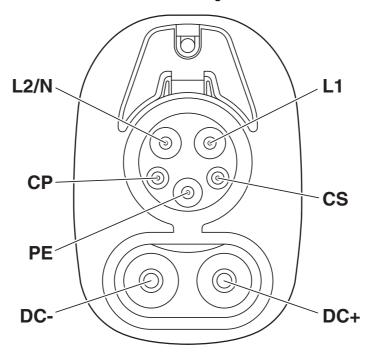
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Schematic diagram



Block diagram of the locking actuator

Connection diagram

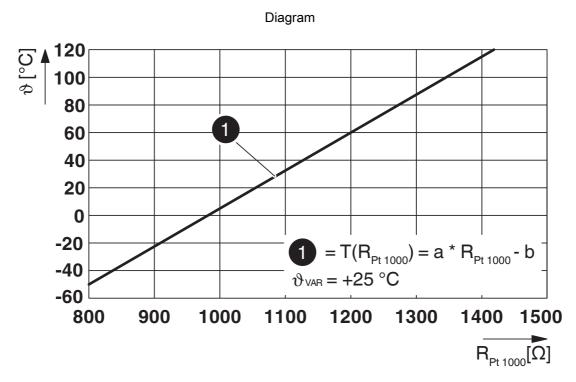


Pin assignment of vehicle charging inlets



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Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts



27,4

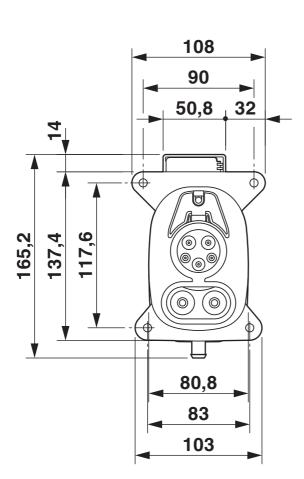
9,4

116,7

Ø 11

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Dimensional drawing

13,8

122,8

97,9

6,9

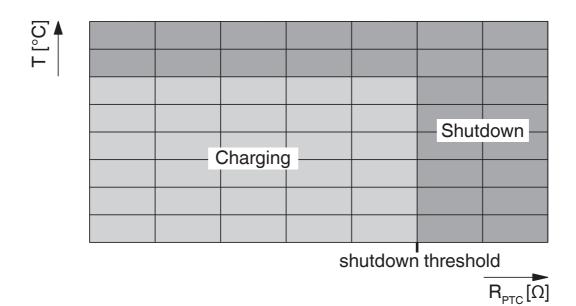
Dimensional drawing



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Schematic diagram



- PTC

Temperature sensor technology resistance range at AC contacts



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Approvals



cULus Recognized Approval ID: E473195-20210730



1194398

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Classifications

ECLASS

ECLASS-9.0	27144706
ECLASS-10.0.1	27144706
ECLASS-11.0	27144706

ETIM

	ETIM 8.0	EC002898
UNSPSC		
	UNSPSC 21.0	39121800



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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
	Dechlorane Plus

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