

1360816

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CHARX connect universal, AC/DC CCS Typ 1, Vehicle charging inlet, 250 A permanent, 1000 V DC, 80 A , 250 V AC, Single wires, length: 8 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, for charging with alternating current (AC) and with direct current (DC), IEC 62196-2, IEC 62196-3, 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 (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	1360816
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAIB
GTIN	4063151696122
Weight per piece (including packing)	26,336 g
Weight per piece (excluding packing)	103 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Number Rated voltage

Rated current

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General	A protective cap is supplied as standard for the DC and AC contacts.
oduct properties	
Product type	Vehicle charging inlet
Product family	CHARX connect universal
Technology	Combined Charging System
Application	for charging with alternating current (AC) and with direct current (DC)
	for installation in electric vehicles (EV)
Charging standard	AC/DC CCS Typ 1
Charging mode	Mode 2, 3, 4
Customer variations	On request
ectrical properties	
Note on the connection method	Crimp connection, cannot be disconnected
Temperature measurement	DC contacts: 2x PT1000 (DIN EN 60751)
Temperature monitoring	AC contacts: PTC chain (DIN EN 60738-1)
Charging power and current (AC charging (1-phase))	
Type of charging current	AC single-phase
Charging current	80 A AC (1-phase)
Charging power	20 kW
Charging power and current (DC charging)	
Type of charging current	DC
Charging current	250 A DC
Charging power	250 kW
Pin assignment (Leistungskontakte)	
Number	5 (L1, N, PE, DC+, DC-)
Rated voltage	250 V AC
	1000 V DC
Rated current	80 A AC
	250 A DC
Pin assignment (Signalkontakte)	
Type of signal transmission	Pulse width modulation with modulated Powerline

2 (CP, CS)

30 V AC

2 A



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Coding	$2.7~k\Omega$ (between PE and CS)
Insulation resistance	> 200 MΩ
Locking actuator	
Locking actuator	12 V, 4-pos.
	Top center position
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
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 Ω 1420 Ω
Resistance	max. 1200 Ω ±5 K
Ambient temperature	-40 °C 130 °C (Operation)
Temperature sensors (Pt 1000)	
Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts
mensions Vehicle charging inlet	
Width	108 mm
Height	151.2 mm
Depth	122.8 mm
Бори	122.0 111111
Bore dimensions	
Width	117.6 mm
Height	90 mm
Depth	117.6 mm
aterial specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)



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Material (Housing)	Plastic
Material (Contact surface)	Silver
able/line	
Cable length	8 m
Cable type Single wire, cross section	Single wires 95.00 mm²
Single wire, cross section	95.00 11111
Single-core wires for AC	
Cable length	8 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 wires for DC	
Cable length	8 m
Cable structure	2 x 95 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	20.60 mm ±0.3 mm
Cable resistance	≤ 0.196 Ω/km
Single-core wire for PE	
Cable length	8 m
Cable structure	1 x 25 mm²
Single wire, material	Silicone
Single wire, color	GN/YE
External cable diameter	8.60 mm ±0.1 mm
Cable resistance	≤ 0.743 Ω/km
Single-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
Single-core wires for PTC 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



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0.9 m
3 x 0.5 mm ²
PVC
BN
GN
YE
1.60 mm ±0.20 mm
≤ 37.1 Ω/m
1 m
2 x 0.5 mm²
PVC
ВК
WH
1.60 mm ±0.20 mm
≤ 37.1 Ω/m

Mechanical properties

Mechanical data

Modification data	
Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 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 40 °C (60°C, maximum (current reduction required, observe the DC contact temperature limit value of 90°C))
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	4000 m (above sea level)

Standards and regulations

Standards

Standards/regulations	IEC 62196-2
	IEC 62196-3
	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

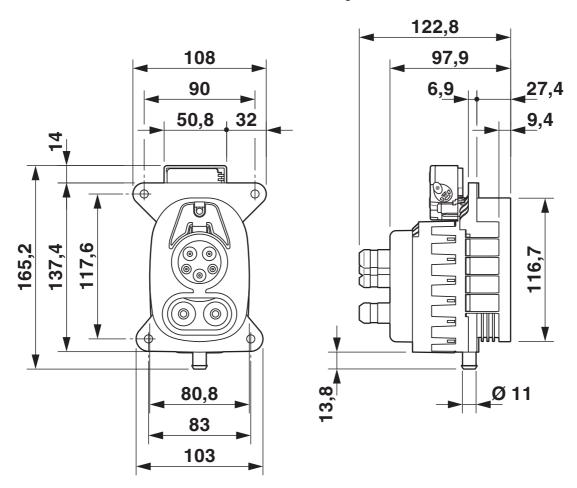


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Drawings

Dimensional drawing

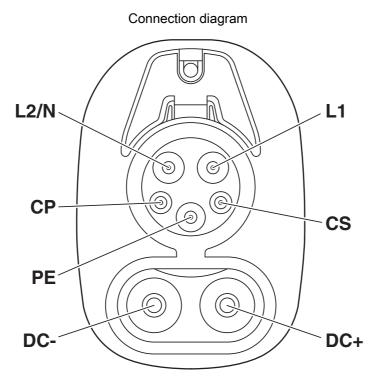


Dimensional drawing



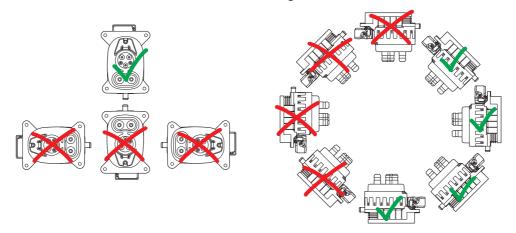
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Pin assignment of vehicle charging inlets

Connection diagram

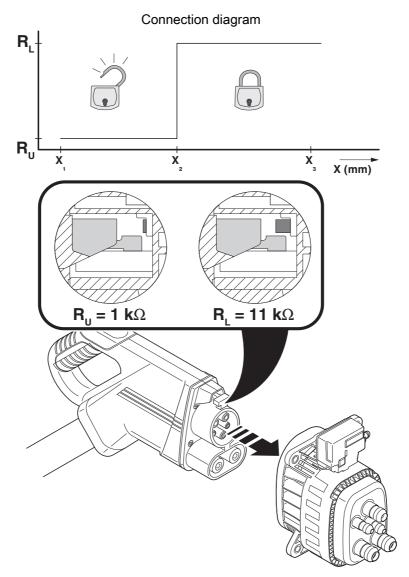


Installation positions

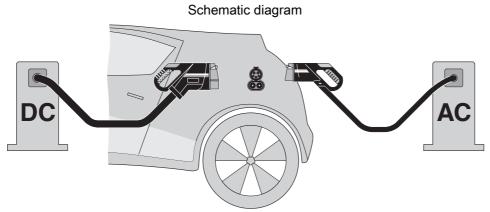


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Detection for Vehicle Connector



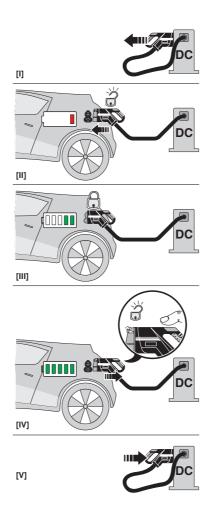
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



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Schematic diagram



Operating instructions



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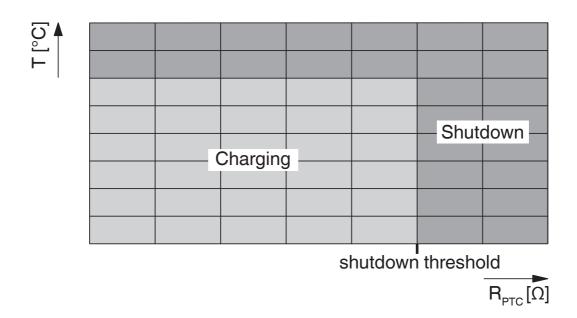
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+ BU/RD 0,5 mm² R1 BU/GN 0,5 mm² R2 1k 10k BU/YE 0,5 mm²

Block diagram of the locking actuator

Schematic diagram

-BU/BN 0,5 mm²

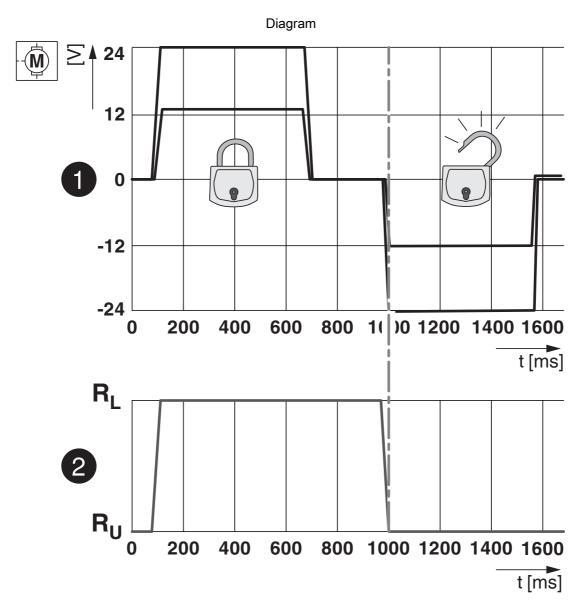


Temperature sensor technology resistance range at AC contacts



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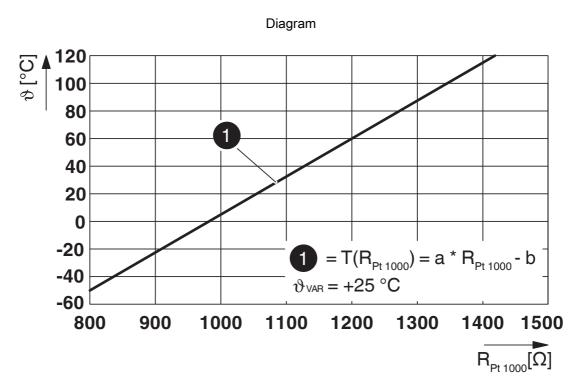


Locking states of the locking actuator



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



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1360816



cULus Recognized

Approval ID: E473195-20210730



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Classifications

ECLASS

	ECLASS-13.0	27144706
	ECLASS-15.0	27144706
ΕΊ	ГІМ	
	ETIM 9.0	EC002898
U	NSPSC	
	UNSPSC 21.0	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-50
	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.)	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)(CAS: n/a)
	Lead(CAS: 7439-92-1)
	Bis(2-(2-methoxyethoxy)ethyl)ether(CAS: n/a)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)

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