

1162095

https://www.phoenixcontact.com/us/products/1162095

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



CHARX connect universal, AC/DC CCS Typ 2, Vehicle charging inlet, up to 500 A in Boost mode, 250 A permanent, 1000 V DC, 32 A , 480 V AC, Single wires, length: 2 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 direct current (DC), compatible with type 2 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	1162095
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAID
GTIN	4063151172107
Weight per piece (including packing)	7,497 g
Weight per piece (excluding packing)	103 g
Customs tariff number	85444290
Country of origin	PL



1162095

https://www.phoenixcontact.com/us/products/1162095

Technical data

110103	
General	A protective cap is supplied as standard for the DC and AC contacts.
Product 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 2
Charging mode	Mode 2, 3, 4
Customer variations	On request
Electrical 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 news and aurent (AC charging (2 phase))	
Charging power and current (AC charging (3-phase))	AC 2 share
Type of charging current	AC 3-phase
Charging current	32 A AC (3-phase) 26.6 kW
Charging power	20.0 KVV
Charging power and current (DC charging)	
Type of charging current	DC
Charging current	250 A DC
Charging power	250 kW
Rated voltage	1000 V
Charging power and current (DC charging in Boost Mode)	
Type of charging current	DC Boost Mode
Charging current	up to 500 A DC
Charging power	up to 500 kW
Rated voltage	1000 V
Note	The specifications refer to charging in Boost Mode and are dependent on ambient conditions. For further details, see the packing slip in the download area.
Pin assignment (Leistungskontakte)	
Number	7 (L1, L2, L3, N, PE, DC+, DC-)
Rated voltage	480 V AC

1000 V DC



1162095

https://www.phoenixcontact.com/us/products/1162095

Rated current	32 A AC
	250 A DC
in assignment (Signalkontakte)	
Type of signal transmission	Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
Coding	4.7 kΩ (between PE and PP)
Insulation resistance	> 200 MΩ
ocking actuator	
Locking actuator	12 V, 4-pos.
	Right 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 40 °C
emperature 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. 1280 Ω ±5 K
Recommended measured current	≤ 1 mA (U _{max} = 16 V DC)
Ambient temperature	-40 °C 130 °C (Operation)
emperature sensors (Pt 1000)	
Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts

Dimensions

Vehicle charging inlet



1162095

https://www.phoenixcontact.com/us/products/1162095

Dimensional drawing	108 13.9 103.5 27.4 10
Width	108 mm
Height	140.25 mm
Depth	128.4 mm
Bore dimensions	
Width	117.65 mm
Height	90 mm
Depth	117.65 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
Single wire, cross section	95.00 mm²
Single-core wires for AC	
Cable length	2 m
Cable structure	4 x 6 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	14.70 mm ±0.2 mm
Cable resistance	≤ 3.2 Ω/km
Single-core wires for DC	
Cable length	2 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	2 m
Cable structure	1 x 25 mm²
Single wire, material	Silicone



1162095

https://www.phoenixcontact.com/us/products/1162095

Insertion force
Withdrawal force

Single wire, color	GN/YE
External cable diameter	8.60 mm ±0.1 mm
Cable resistance	≤ 0.743 Ω/km
ingle-core wires for locking actuator	
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	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
ngle-core wires for PTC temperature sensors	
Cable length	1 m
Cable structure	2 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BN/GY
	BN/YE/GN
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
Cable length Cable structure	1 m 3 x 0.5 mm ²
Cable structure	3 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BN
	GN
	YE
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
ngle-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	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m
chanical properties	
echanical data	
Insertion/withdrawal cycles	> 10000

< 100 N

< 100 N



1162095

https://www.phoenixcontact.com/us/products/1162095

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

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

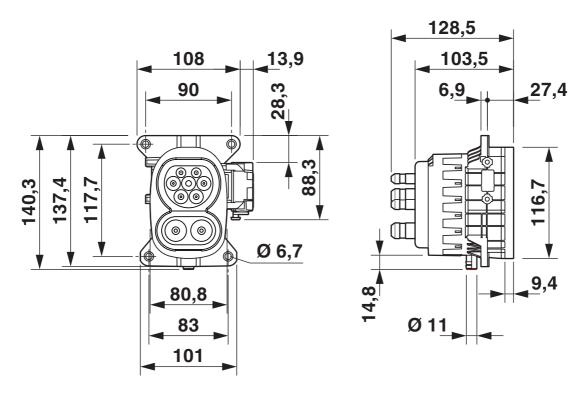


1162095

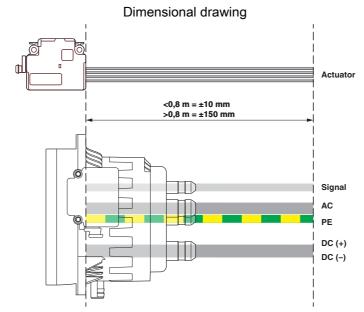
https://www.phoenixcontact.com/us/products/1162095

Drawings

Dimensional drawing



Dimensional drawing

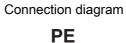


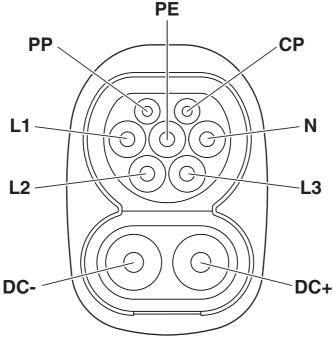
Reference points for measuring the line length



1162095

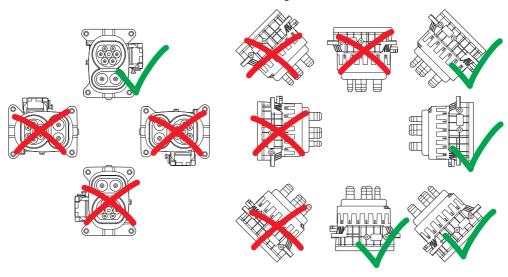
https://www.phoenixcontact.com/us/products/1162095





Pin assignment of vehicle charging inlets

Connection diagram

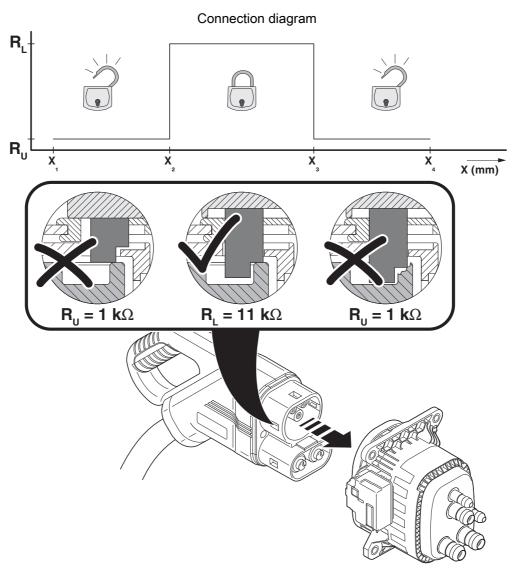


Installation positions

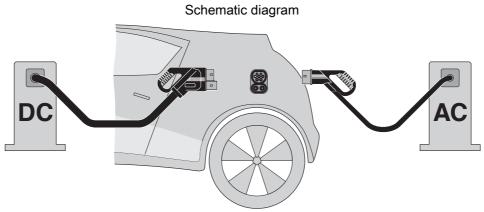


1162095

https://www.phoenixcontact.com/us/products/1162095



Detection for Vehicle Connector

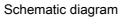


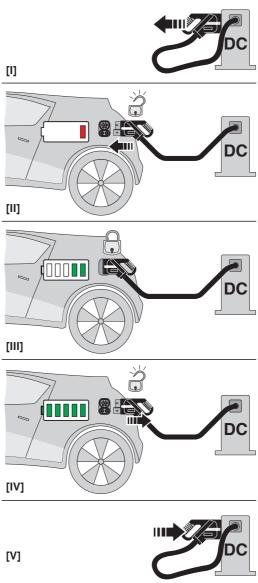
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



1162095

https://www.phoenixcontact.com/us/products/1162095





Operating instructions



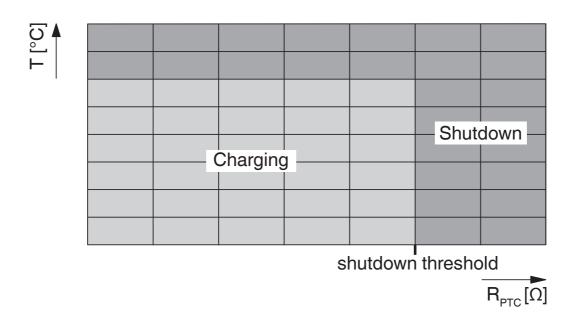
1162095

https://www.phoenixcontact.com/us/products/1162095

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

Block diagram of the locking actuator

Schematic diagram

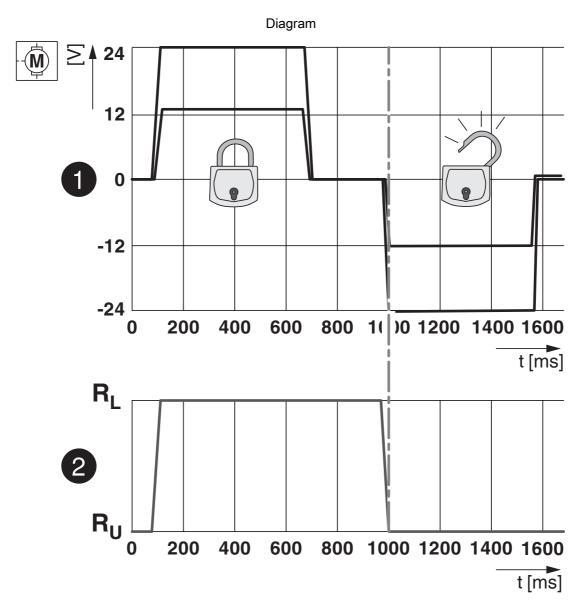


Temperature sensor technology resistance range at AC contacts



1162095

https://www.phoenixcontact.com/us/products/1162095

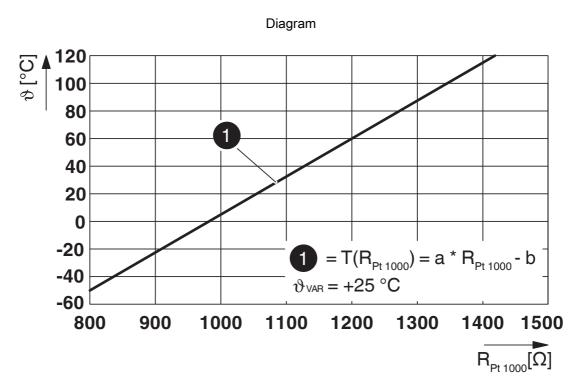


Locking states of the locking actuator



1162095

https://www.phoenixcontact.com/us/products/1162095



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



1162095

https://www.phoenixcontact.com/us/products/1162095

Classifications

ECLASS

ECLASS-13.0	27144706
ECLASS-15.0	27144706

ETIM

ETIM 9.0 EC002898	
-------------------	--



1162095

https://www.phoenixcontact.com/us/products/1162095

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 "Manufacture 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: 15571-58-1)
	Lead(CAS: 7439-92-1)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	fb299a06-ef71-4c05-a406-422bbbed848f

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com