

1358243

https://www.phoenixcontact.com/us/products/1358243

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, Vehicle charging inlet, for charging with direct current (DC), CCS type 1, IEC 62196-2, IEC 62196-3, 250 A / 1000 V (DC), Single wires, length: 5 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, A protective cap is supplied as standard for the DC contacts.

Product description

Vehicle charging inlet for charging with direct current (DC), compatible with type 1 CCS vehicle charging connectors (SE), 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	1358243
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAIB
GTIN	4063151685683
Weight per piece (including packing)	14,000 g
Weight per piece (excluding packing)	14,000 g
Customs tariff number	85444290
Country of origin	PL



A protective cap is supplied as standard for the DC contacts.

1358243

https://www.phoenixcontact.com/us/products/1358243

Technical data

General

Product type	Vehicle charging inlet
Product family	CHARX connect universal
Application Technology	for charging with direct current (DC)
	for installation in electric vehicles (EV)
	Combined Charging System
Charging standard	CCS type 1
Charging mode	Mode 4

Ε

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 measurement	DC contacts: 2x PT1000 (DIN EN 60751)
Type of charging current	DC
Charging power	250 kW
Charging current	250 A

Power contact

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

Signal contact

Number	2 (CP, CS)
Rated voltage	30 V AC
Rated current	2 A

Temperature sensors (Pt 1000)

Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts

Locking actuator

Locking actuator		
	Operating voltage	12 V
	Note number of positions	4-pos.
	Position of the locking actuator	top center



1358243

https://www.phoenixcontact.com/us/products/1358243

Cable structure

perating 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
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
erial specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
le/line	
Cable length	5 m
Cable type	Single wires
ngle-core wires for DC	
Cable length	5 m
Cable structure	2 x 95 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	20.6 mm ±0.3 mm
Cable resistance	≤ 0.196 Ω/km
ngle-core wire for PE	
Cable length	5 m
Cable structure	1 x 25 mm ²
Single wire, material	Silicone
Single wire, color	GN/YE
External cable diameter	8.6 mm ±0.1 mm
Cable resistance	≤ 0.743 Ω/km

4 x 0.5 mm²



1358243

https://www.phoenixcontact.com/us/products/1358243

Single wire, material	PVC	
Single wire, color	BU/RD, BU/GN, BU/YE, BU/BN	
External cable diameter	1.6 mm ±0.20 mm	
Cable resistance	≤ 37.1 Ω/m	
Single-core wires for Pt 1000 temperature sensors		
Cable length	1 m	
Cable structure	3 x 0.5 mm²	
Single wire, material	PVC	
Single wire, color	BN	
	GN	
	YE	
External cable diameter	1.6 mm ±0.20 mm	
Cable resistance	≤ 37.1 Ω/m	
Single-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	
External cable diameter	1.6 mm ±0.20 mm	
Cable resistance	≤ 37.1 Ω/m	

Mechanical properties

Mechanical 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 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
	IEC 62196-3



1358243

https://www.phoenixcontact.com/us/products/1358243

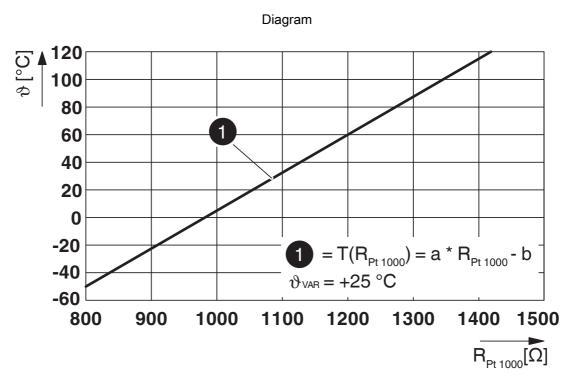
	SAE J1772
Mounting	
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



1358243

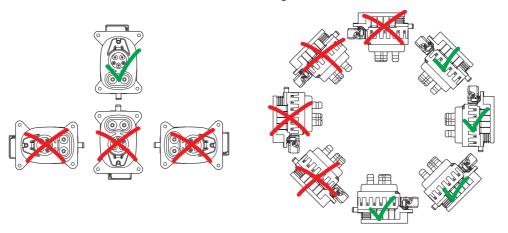
https://www.phoenixcontact.com/us/products/1358243

Drawings



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

Connection diagram



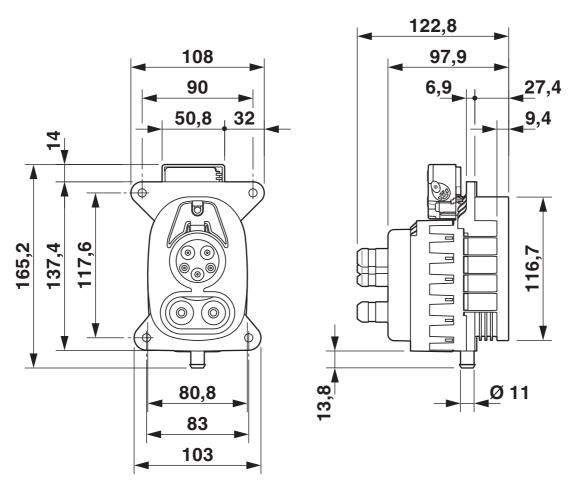
Installation positions



1358243

https://www.phoenixcontact.com/us/products/1358243

Dimensional drawing

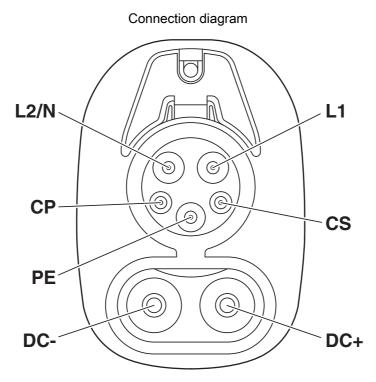


Dimensional drawing



1358243

https://www.phoenixcontact.com/us/products/1358243



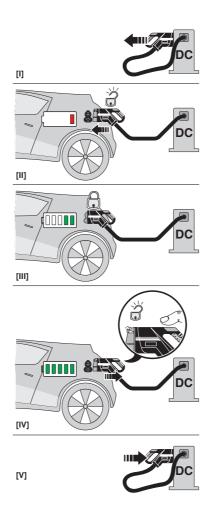
Pin assignment of vehicle charging inlets



1358243

https://www.phoenixcontact.com/us/products/1358243

Schematic diagram



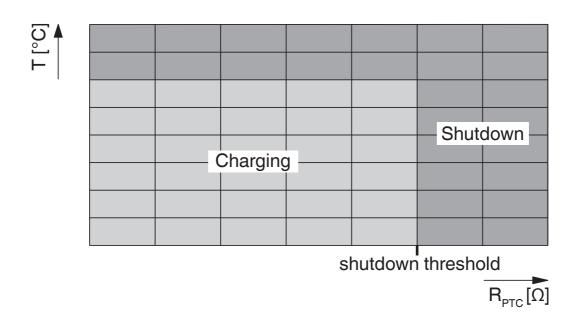
Operating instructions



1358243

https://www.phoenixcontact.com/us/products/1358243

Schematic diagram

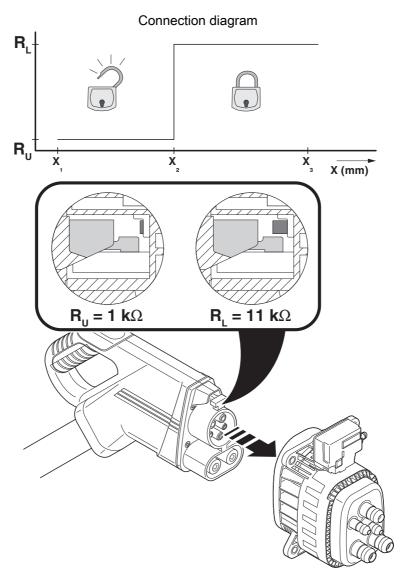


Temperature sensor technology resistance range at AC contacts



1358243

https://www.phoenixcontact.com/us/products/1358243



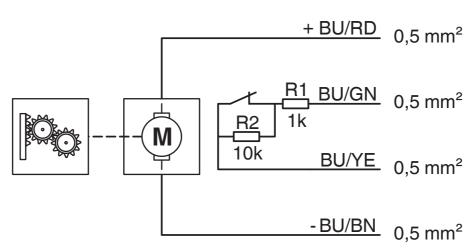
Detection for Vehicle Connector



1358243

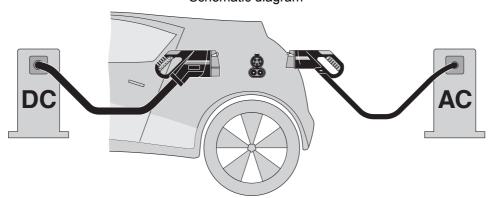
https://www.phoenixcontact.com/us/products/1358243

Schematic diagram



Block diagram of the locking actuator

Schematic diagram

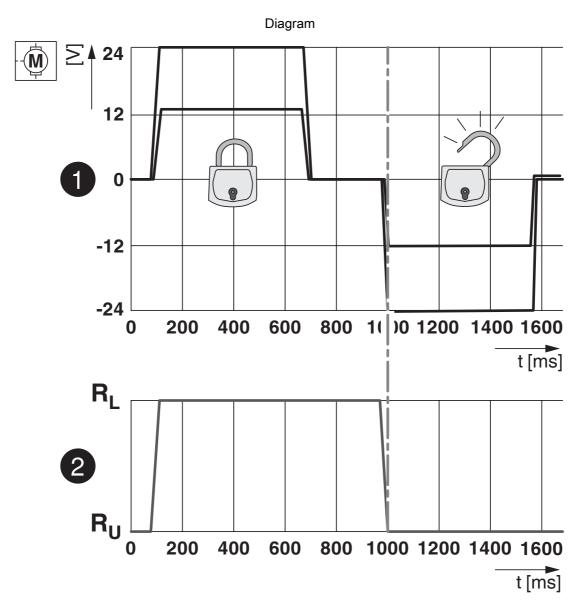


The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



1358243

https://www.phoenixcontact.com/us/products/1358243



Locking states of the locking actuator



1358243

https://www.phoenixcontact.com/us/products/1358243

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1358243

c 911 us	cULus Recognized Approval ID: E473195-20210730				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		1000 V	250 A	-	-



1358243

https://www.phoenixcontact.com/us/products/1358243

Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27144706	
	ECLASS-12.0	27144706	
	ECLASS-13.0	27144706	
ETIM			
	ETIM 8.0	EC002898	
UNSPSC			

39121800



1358243

https://www.phoenixcontact.com/us/products/1358243

Environmental product compliance

REACh SVHC	Lead 7439-92-1
	DOTE 15571-58-1
	Dechlorane Plus
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



1358243

https://www.phoenixcontact.com/us/products/1358243

Accessories

CHARX T1HBI-DUST-COVER-SET - Protective cover

1305482

https://www.phoenixcontact.com/us/products/1305482



CHARX connect universal, Protective cover, Accessories, for vehicle charging inlet, CCS type 1, Plug-on assembly, housing: black

CHARX T1HI-ELOCK12V - Locking

1331528

https://www.phoenixcontact.com/us/products/1331528



CHARX connect universal, Locking, Accessories, for mounting on vehicle charging inlets, Type 1, IEC 61851-1, Single wires, length: 1 m, locking actuator: 12 V, 4-pos.

Phoenix Contact 2023 © - 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