

#### 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 XWCAIB	
Product key		
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	



#### 1358243

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

### Technical data

#### Notes

General	A protective cap is supplied as standard for the DC contacts.		
duct properties			
Product type	Vehicle charging inlet           CHARX connect universal		
Product family			
Application	for charging with direct current (DC)		
	for installation in electric vehicles (EV)		
Technology	Combined Charging System CCS type 1		
Charging standard			
Charging mode	Mode 4		
strical 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 kΩ (between PE and CS)		
Temperature measurement	DC contacts: 2x PT1000 (DIN EN 60751)		
Type of charging current			
Charging power	250 kW		
Charging current	250 A		
ower contact			
Number	5 (L1, N, PE, DC+, DC-)		
Rated voltage	1000 V DC		
Rated current	250 A DC		
gnal contact			
Number	2 (CP, CS)		
Rated voltage	30 V AC		
Rated current	2 A		
emperature sensors (Pt 1000)			
Sensor type	Pt 1000		
Standards/regulations	DIN EN 60751		
Attachment point	2 sensors for the DC contacts		
ocking 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

Locking actuator		
Operating voltage	12 V 4-pos.	
Note number of positions		
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 available	
Mechanical emergency release		
Ambient temperature (operation)	-40 °C 80 °C	
Naterial specifications		
Color (Housing)	black (9005)	
Color (Mating face)	black (9005)	
Material (Housing)	Plastic	
Material (Contact surface)	Silver	
Cable/line		
Cable length	5 m	

### С

Cable length	5 m
Cable type	Single wires

Single-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	

Single-core wire for PE

Single-core wire for PE			
Cable length	5 m		
Cable structure	1 x 25 mm²		
Single wire, material	Silicone		
Single wire, color	GN/YE		
External cable diameter	8.6 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 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		
ingle-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		
ingle-core wires for communication			
Cable length	1 m		
Cable structure	2 x 0.5 mm <sup>2</sup>		
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

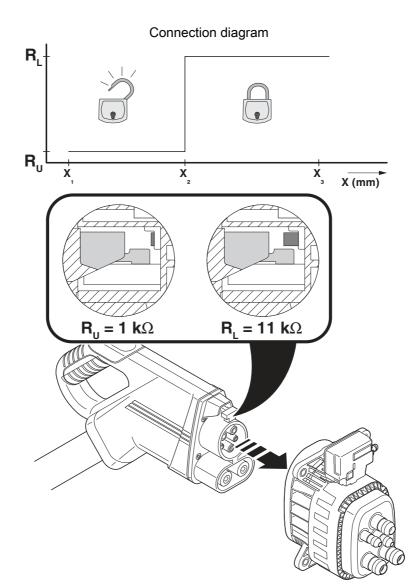
		SAE J1772				
Мо	Mounting					
	Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)				
	Mounting hole diameter	6.70 mm (ø)				
	Fixing screws	M6				
	Screws included in the scope of delivery	none				



1358243

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

### Drawings



Detection for Vehicle Connector



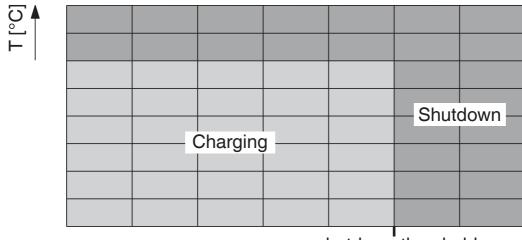
1358243

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

Connection diagram

Pin assignment of vehicle charging inlets

### Schematic diagram



shutdown threshold

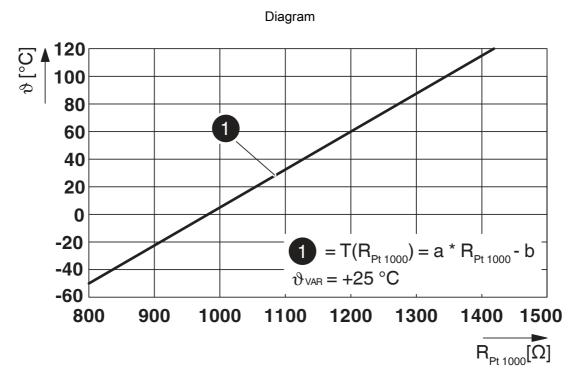


Temperature sensor technology resistance range at AC contacts

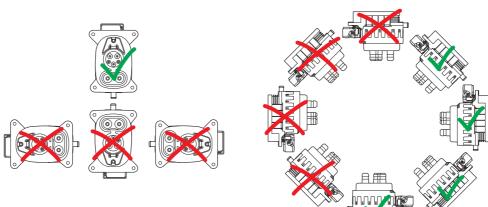


#### 1358243

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



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



### Connection diagram

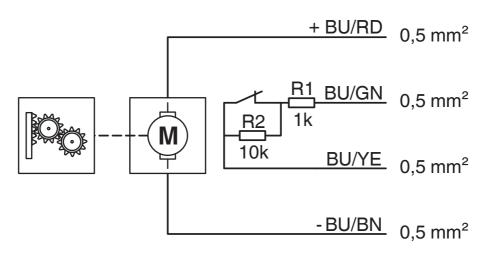
Installation positions



1358243

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

Schematic diagram

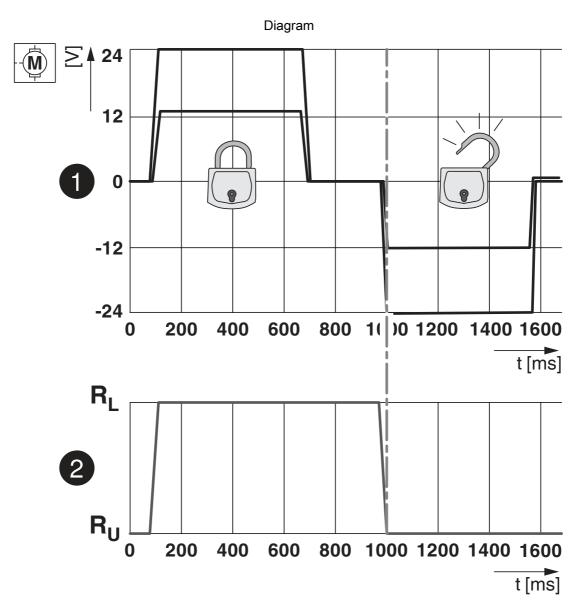


Block diagram of the locking actuator



#### 1358243

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



Locking states of the locking actuator



27,4

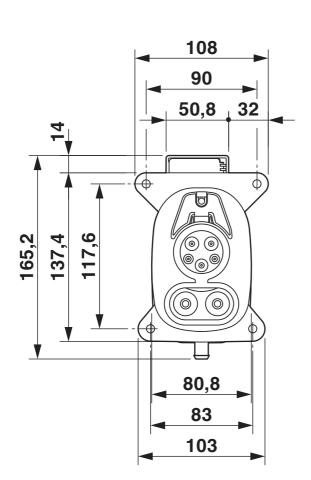
9,4

116,7

Ø 11

1358243

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



Dimensional drawing

13,8

122,8

97,9

6,9

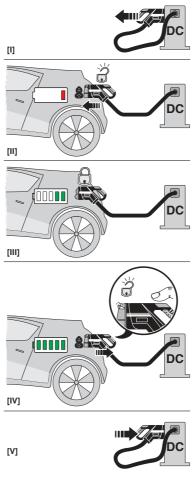
Dimensional drawing



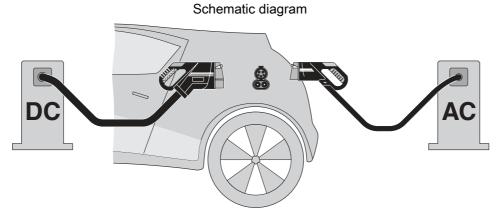
1358243

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

Schematic diagram



Operating instructions



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

### Approvals

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

e <b>911</b> us	Approval ID: E473195-20210730				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		1000 V	250 A	-	-



1358243

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

### Classifications

### ECLASS

ECLASS-11.0	27144706
ECLASS-12.0	27144706
ECLASS-13.0	27144706

### ETIM

	ETIM 8.0	EC002898	
UNSPSC			
	UNSPSC 21.0	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



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