

1360849

https://www.phoenixcontact.com/pc/products/1360849

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 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), Single wires, length: 2 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, 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	1360849
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWCAIB
GTIN	4063151696603
Weight per piece (including packing)	8,845 g
Weight per piece (excluding packing)	8,845 g
Customs tariff number	85444290
Country of origin	PL



https://www.phoenixcontact.com/pc/products/1360849

Technical data

Notes

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
Application	for charging with alternating current (AC) and with direct current (DC)
	for installation in electric vehicles (EV)
Technology	Combined Charging System
Charging standard	CCS type 1
Charging mode	Mode 2, 3, 4

Electrical 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 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 (PTC chain)



https://www.phoenixcontact.com/pc/products/1360849

Standards/regulations	DIN□EN 60738-1	
Attachment point	Sensor for the AC contacts	
Messbereich_Widerstand	790 Ω 1420 Ω	
Resistance	max. 1200 Ω ±5 K	
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	
ocking actuator		
Operating voltage	12 V	
Note number of positions	4-pos.	
Position of the locking actuator	top center	
ocking actuator		
Operating 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	
ble/line		
Cable length	2 m	
Cable type	Single wires	
Single wire, cross section	35.00 mm ²	

Single-core wires for AC	
Cable length	5 m
Cable structure	2 x 6 mm ²



https://www.phoenixcontact.com/pc/products/1360849

Single wire, material	Silicone	
Single wire, color	OG	
External cable diameter	12.6 mm ±0.2 mm	
Cable resistance	≤ 3.2 Ω/km	
Single-core wires for DC		
Cable length	5 m	
Cable structure	2 x 35 mm²	
Single wire, material	Silicone	
Single wire, color	OG	
External cable diameter	14.1 mm ±0.3 mm	
Cable resistance	≤ 0.527 Ω/km	
Single-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	
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	1.6 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	1.6 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 mm ²	
Single wire, material	PVC	
Single wire, color	BN	
	GN	
	YE	
External cable diameter	1.6 mm ±0.20 mm	
	≤ 37.1 Ω/m	



https://www.phoenixcontact.com/pc/products/1360849

Single-core	wires	for	communication
Children of the	*********	101	oonninanioadion

Cable length	1 m
Cable structure	2 x 0.5 mm²
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

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
	SAE J1772

Mounting

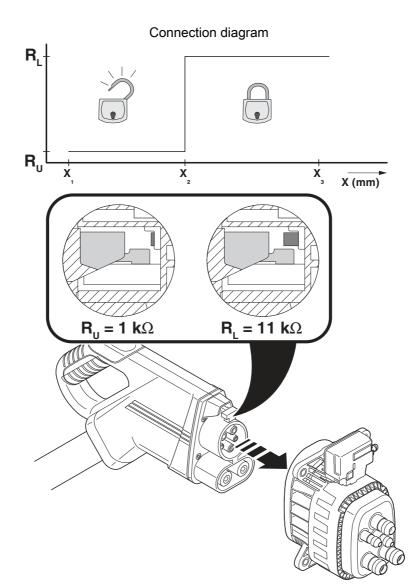
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



1360849

https://www.phoenixcontact.com/pc/products/1360849

Drawings



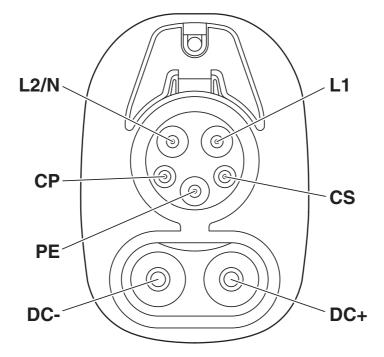
Detection for Vehicle Connector



1360849

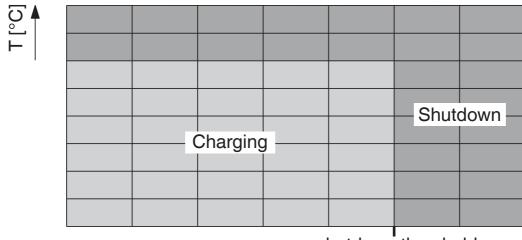
https://www.phoenixcontact.com/pc/products/1360849

Connection diagram



Pin assignment of vehicle charging inlets

Schematic diagram



shutdown threshold

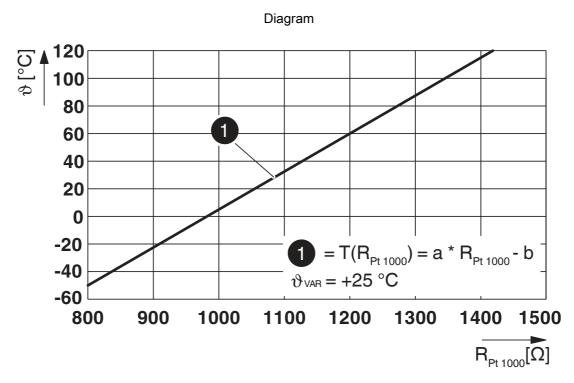


Temperature sensor technology resistance range at AC contacts

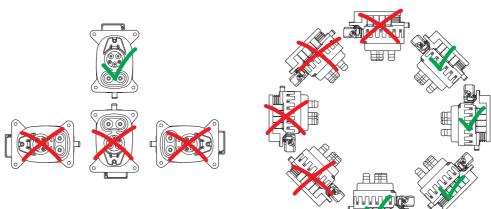


1360849

https://www.phoenixcontact.com/pc/products/1360849



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



Connection diagram

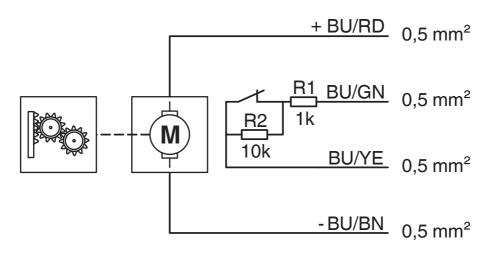
Installation positions



1360849

https://www.phoenixcontact.com/pc/products/1360849

Schematic diagram

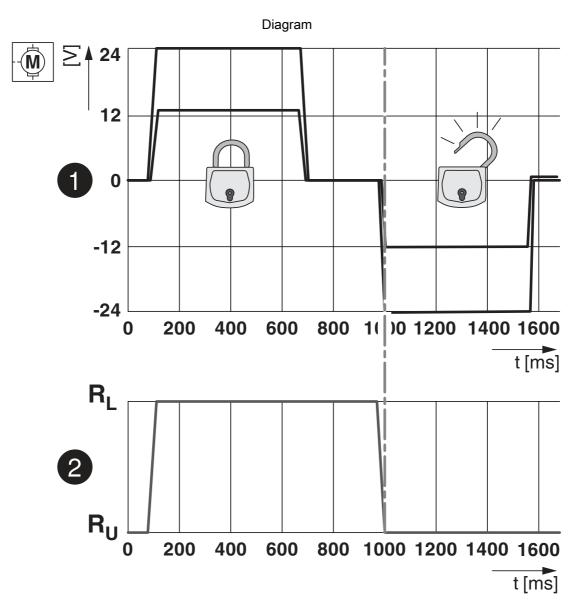


Block diagram of the locking actuator



1360849

https://www.phoenixcontact.com/pc/products/1360849

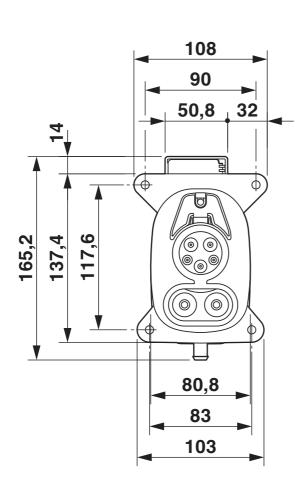


Locking states of the locking actuator

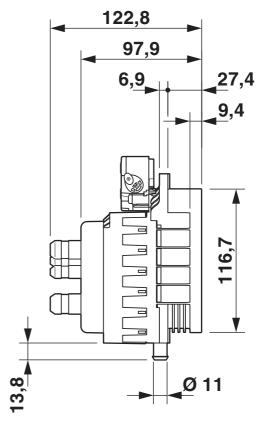


1360849

https://www.phoenixcontact.com/pc/products/1360849



Dimensional drawing



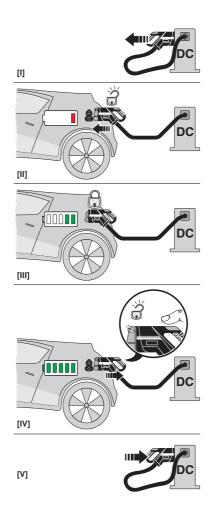
Dimensional drawing



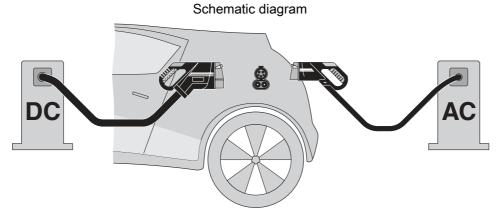
1360849

https://www.phoenixcontact.com/pc/products/1360849

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.

Sep 4, 2023, 1:46 AM Page 12 (16)

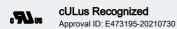


1360849

https://www.phoenixcontact.com/pc/products/1360849

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1360849





1360849

https://www.phoenixcontact.com/pc/products/1360849

Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC002898
UN	UNSPSC	
	UNSPSC 21.0	39121800



https://www.phoenixcontact.com/pc/products/1360849

Environmental product compliance

REACh SVHC	Lead 7439-92-1
	DOTE 15571-58-1
	Dechlorane Plus
China RoHS	Environmentally Friendly Use Period = 10;



1360849

https://www.phoenixcontact.com/pc/products/1360849

Accessories

CHARX T1HBI-DUST-COVER-SET - Protective cover

1305482 https://www.phoenixcontact.com/pc/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/pc/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 GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg +49 (0) 5235-3 00 info@phoenixcontact.com