

1271836

https://www.phoenixcontact.com/us/products/1271836

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 electric vehicles with alternating current (AC), AC type 1, IEC 62196-2, SAE J1772, 80 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 AC contacts.

### Product description

Vehicle charging inlet for charging with alternating current (AC), compatible with type 1 AC 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	1271836
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWCAIA
GTIN	4063151463618
Weight per piece (including packing)	1,925 g
Weight per piece (excluding packing)	1,925 g
Customs tariff number	85444290
Country of origin	PL



https://www.phoenixcontact.com/us/products/1271836

### Technical data

#### Notes

General	A protective cap is supplied as standard for the AC contacts.
oduct properties	
Product type	Vehicle charging inlet
Product family	CHARX connect universal
Application	for charging electric vehicles with alternating current (AC)
	for installation in electric vehicles (EV)
Charging standard	AC type 1
Charging mode	Mode 2, 3
ectrical 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 $\Omega$ (between PE and CS)
Temperature monitoring	AC contacts: PTC chain (DIN EN 60738-1)

Charging current

Charging power

Type of charging current

Power contact

Number	3 (L1, N, PE)
Rated voltage	250 V AC
Rated current	80 A AC

AC single-phase

20 kW

80 A

Signal contact

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

Temperature sensors (PTC chain)

Sensor type	PTC chain
Standards/regulations	DIN EN 60738-1
Attachment point	Sensor for the AC contacts
Measuring range_resistance	790.00 Ω 1420.00 Ω
Resistance	max. 1200 Ω ±5 K
Recommended measured current	$\leq$ 1 mA (U <sub>max</sub> = 16 V DC)
Ambient temperature	-40 °C 130 °C (Operation)

Locking actuator

Operating voltage



1271836

https://www.phoenixcontact.com/us/products/1271836

Note number of positions	4-pos.
Position of the locking actuator	top center
Locking 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
mensions	
Width	73 mm
Height	73 mm
Depth	73 mm
Doput	
aterial specifications	
Color (Housing)	black (9005)
Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
able/line	
Cable length	2 m
Cable type	Single wires
Single-core wires for AC	
Cable length	2 m
Cable structure	2 x 16 mm <sup>2</sup>
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 wire for PE	2 m
Cable length Cable structure	2 m 1 x 16 mm <sup>2</sup>
Single wire, material	Silicone



https://www.phoenixcontact.com/us/products/1271836

Single wire, color	GN/YE	
External cable diameter	7.00 mm ±0.2 mm	
Cable resistance	≤ 1.16 Ω/km	
Cable resistance	S 1.10 12/KIII	
Single-core wires for locking actuator		
Cable length	1.5 m	
Cable structure	4 x 0.5 mm <sup>2</sup>	
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 temperature sensors		
Cable length	1 m	
Cable structure	5 x 0,5 mm <sup>2</sup>	
Single wire, color	BN/GY	
	BN/YE/GN	
External cable diameter	1.60 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 <sup>2</sup>	
Single wire, material	PVC	
Single wire, color	ВК	
	WH	
External cable diameter	1.60 mm ±0.20 mm	
Cable resistance	≤ 37.1 Ω/m	

#### Mechanical properties

Mechanica	al data
Mechanica	ai uala

Insertion/withdrawal cycles	> 10000
Insertion force	< 75 N
Withdrawal force	< 75 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)



https://www.phoenixcontact.com/us/products/1271836

### Standards and regulations

#### Standards

Standards/regulations	IEC 62196-2
	SAE J1772

#### Mounting

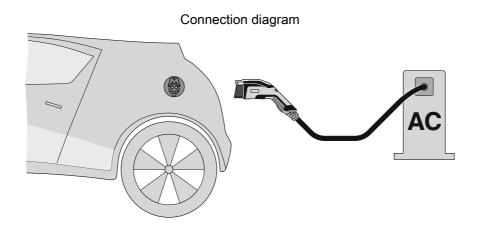
Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none



1271836

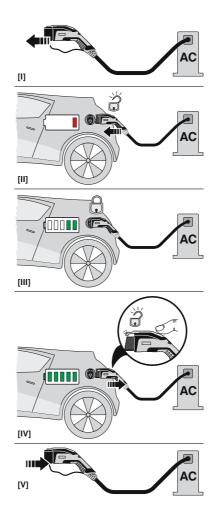
https://www.phoenixcontact.com/us/products/1271836

### Drawings



Terminology definition

Functional drawing



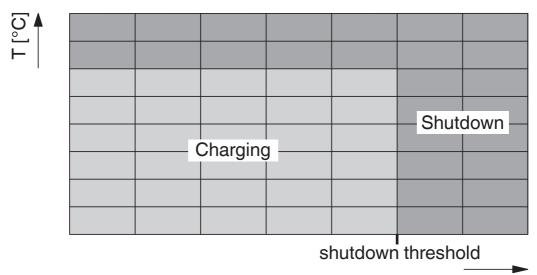
Operating instructions



1271836

https://www.phoenixcontact.com/us/products/1271836

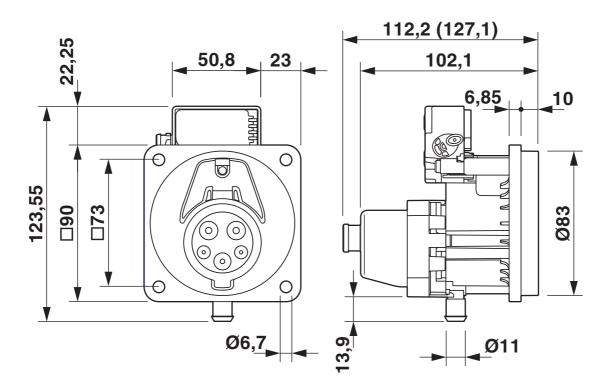
Schematic diagram



R<sub>PTC</sub>[Ω]

Temperature sensor technology resistance range at AC contacts

Dimensional drawing

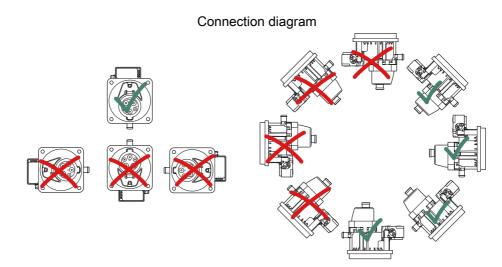


Dimensional drawing



1271836

https://www.phoenixcontact.com/us/products/1271836



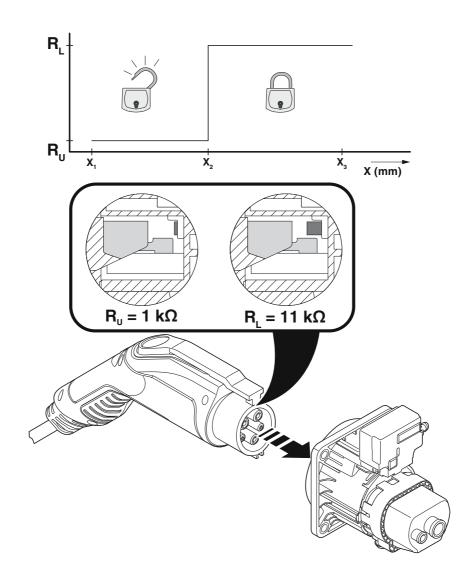
Installation positions



1271836

https://www.phoenixcontact.com/us/products/1271836

Schematic diagram

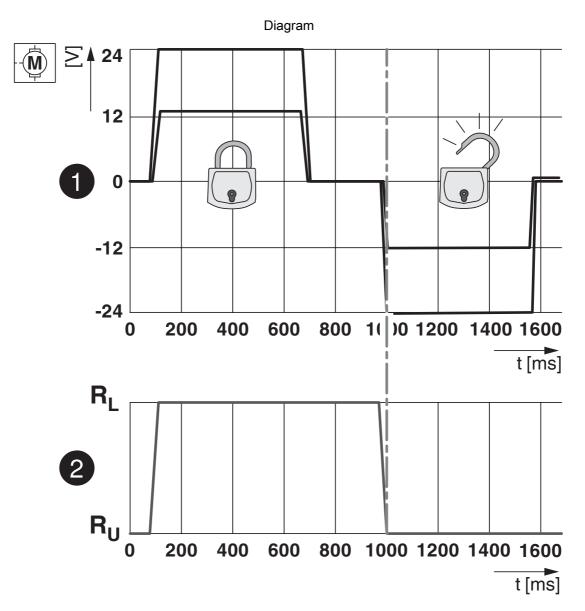


Detection for Vehicle Connector



1271836

https://www.phoenixcontact.com/us/products/1271836



Locking states of the locking actuator



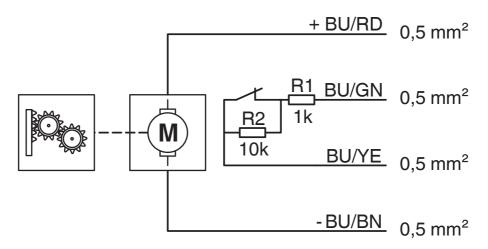
1271836

https://www.phoenixcontact.com/us/products/1271836

Connection diagram

Pin assignment of vehicle charging inlets

Schematic diagram



Block diagram of the locking actuator



1271836

https://www.phoenixcontact.com/us/products/1271836

### Classifications

#### ECLASS

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

#### ETIM

	ETIM 9.0	EC002898	
U	UNSPSC		
	UNSPSC 21.0	39121800	



https://www.phoenixcontact.com/us/products/1271836

### Environmental product compliance

#### EU RoHS

Yes
6(c), 7(c)-l
EFUP-10
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.
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1. 16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)(CAS: n/a)
Lead(CAS: 7439-92-1)

Phoenix Contact 2024 © - 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