

# CHARX GBHCI12-3AC32-2,0M1 - Vehicle charging inlet



1271831

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CHARX connect universal, AC GB/T, Vehicle charging inlet, 32 A , 415 V AC, Single wires, length: 2 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, for charging electric vehicles (EV) with alternating current (AC), GB/T 20234.2-2015

## Product description

Vehicle charging inlet for charging with alternating current (AC), compatible with type GB AC vehicle charging connectors (EVSE), for installation in electric vehicles (EV).

## Commercial data

Item number	1271831
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	XWCAID
GTIN	4063151462291
Weight per piece (including packing)	1,607 g
Weight per piece (excluding packing)	1,600 g
Customs tariff number	85444290
Country of origin	PL

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## Technical data

### Product properties

Product type	Vehicle charging inlet
Product family	CHARX connect universal
Application	for charging electric vehicles (EV) with alternating current (AC) for installation in electric vehicles (EV)
Charging standard	AC GB/T
Charging mode	Mode 2, 3
Customer variations	On request

### 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
Coding	1 k $\Omega$ (between PE and CC1)
Temperature monitoring	AC contacts: PTC chain (DIN EN 60738-1)
Type of charging current	AC 3-phase
Charging power	23 kW
Charging current	32 A AC (3-phase)

### Power contact

Number	5 (L1, L2, L3, N, PE)
Rated voltage	415 V AC
Rated current	32 A AC

### Signal contact

Number	2 (CP, CC)
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 $\Omega$ ... 1420.00 $\Omega$
Resistance	max. 1280 $\Omega$ $\pm$ 5 K
Recommended measured current	$\leq$ 1 mA ( $U_{max}$ = 16 V DC)
Ambient temperature	-40 $^{\circ}$ C ... 130 $^{\circ}$ C (Operation)

### Locking actuator

Locking actuator	12 V, 4-pos. Position can be freely selected
Possible power supply range at the motor	9 V ... 16 V
Maximum voltage for locking detection	12 V

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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

## Dimensions

Width	73 mm
Height	73 mm
Depth	73 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-core wires for AC

Cable length	2 m
Cable structure	5 x 6 mm <sup>2</sup>
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	15.90 mm ±0.3 mm
Cable resistance	≤ 3.2 Ω/km

### Single-core wire for PE

Cable length	2 m
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### Single-core wires for locking actuator

Cable length	1 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 PTC temperature sensors

Cable length	1 m
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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	BK
	WH
External cable diameter	1.60 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)
Altitude	4000 m (above sea level)

## Standards and regulations

### Standards

Standards/regulations	GB/T 20234.2-2015
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## 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

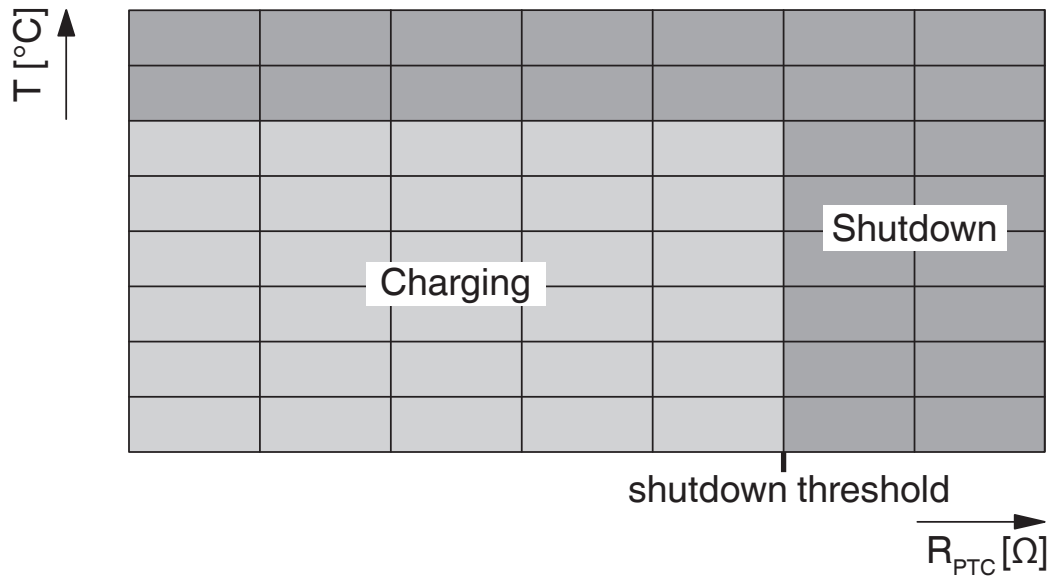
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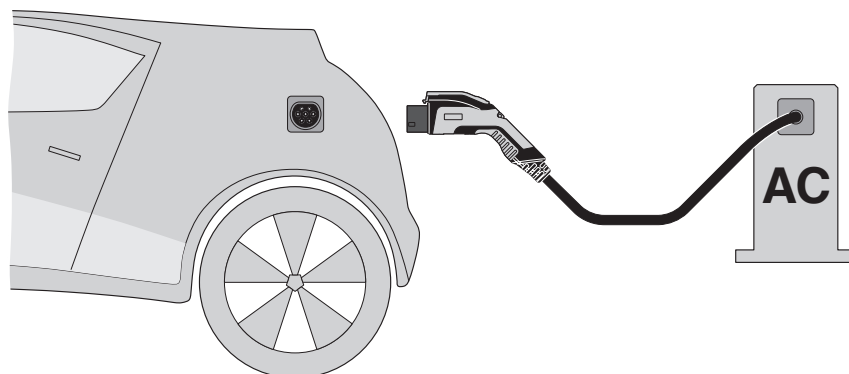
## Drawings

Schematic diagram



Temperature sensor technology resistance range at AC contacts

Schematic diagram



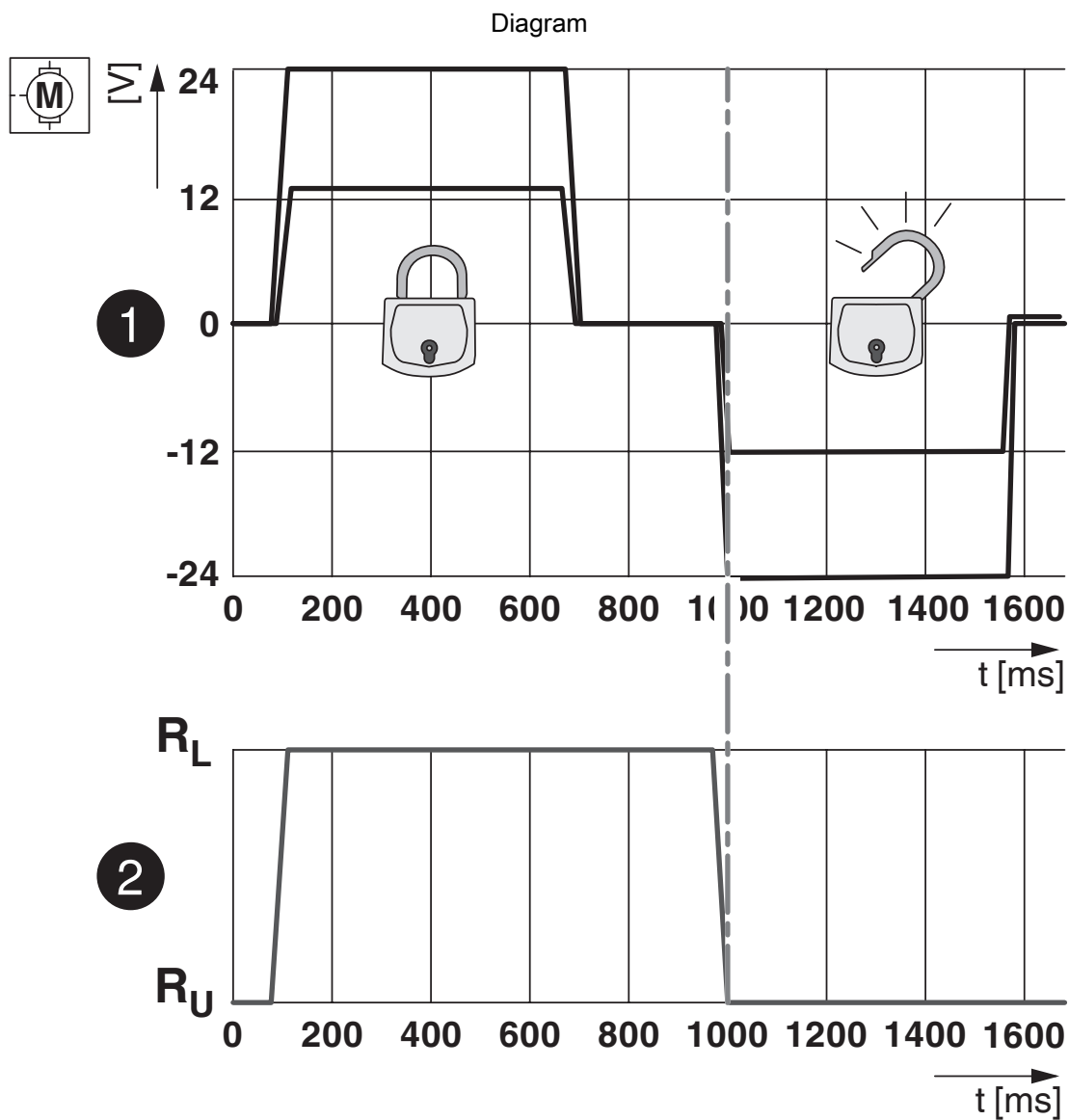
Terminology definition

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Locking states of the locking actuator

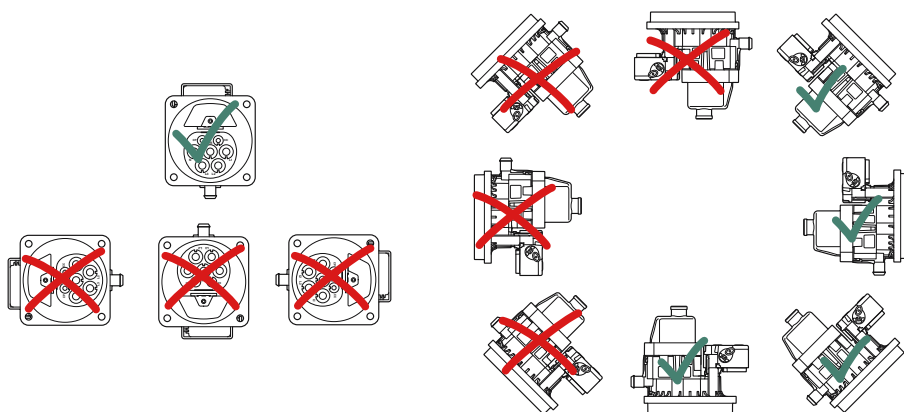
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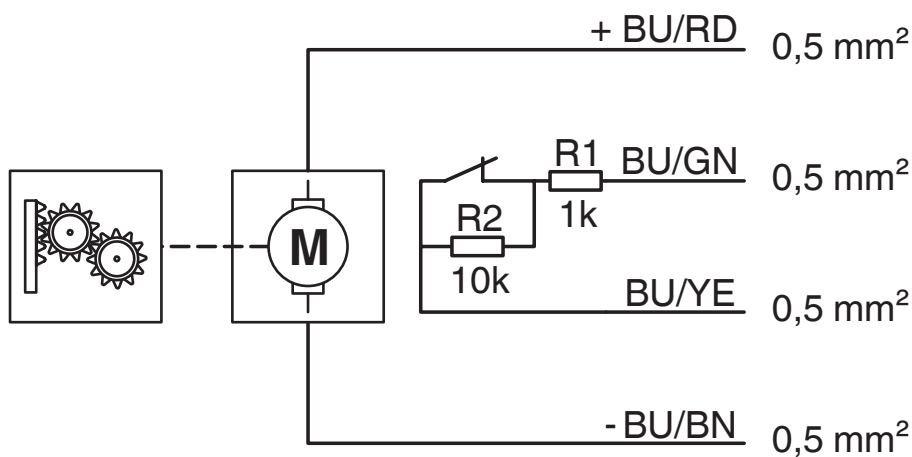
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Connection diagram



Installation positions

Schematic diagram



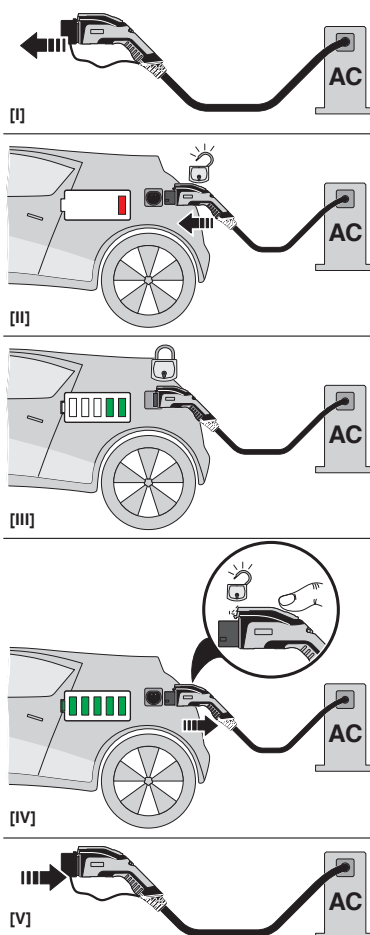
Block diagram of the locking actuator

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## Schematic diagram



Operating instructions

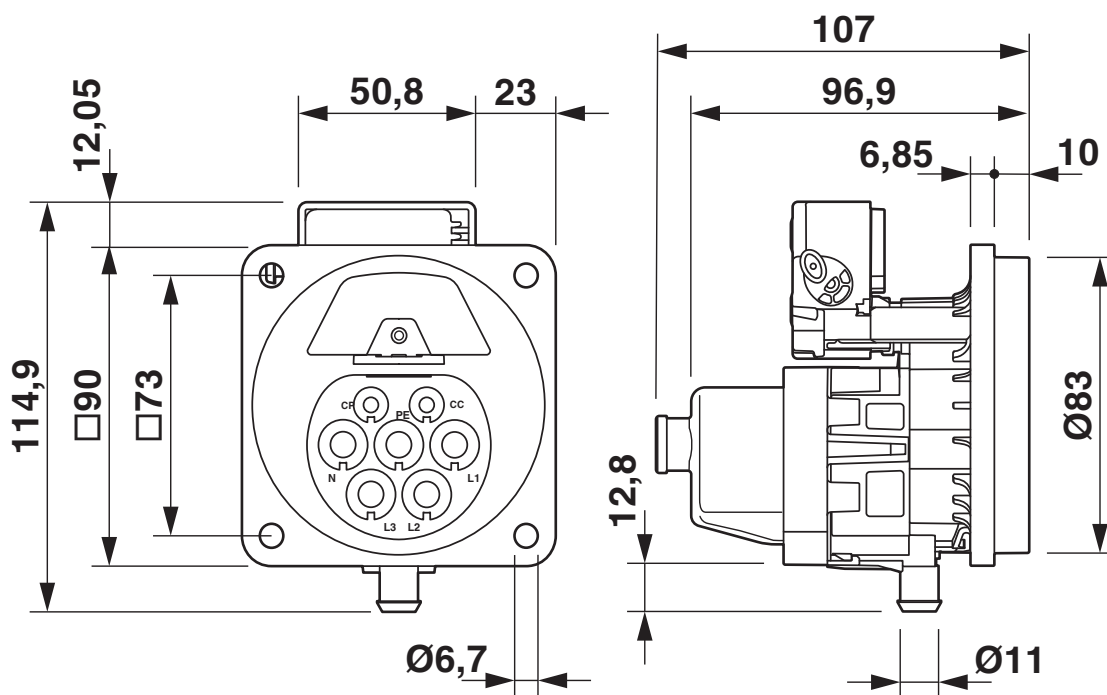


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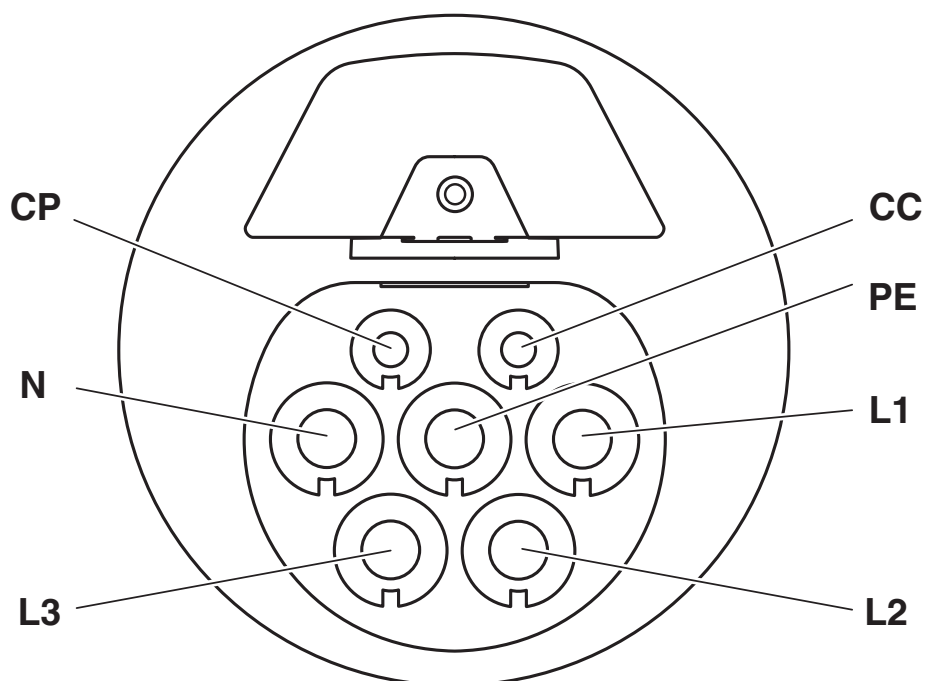
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Dimensional drawing



Dimensional drawing

Connection diagram



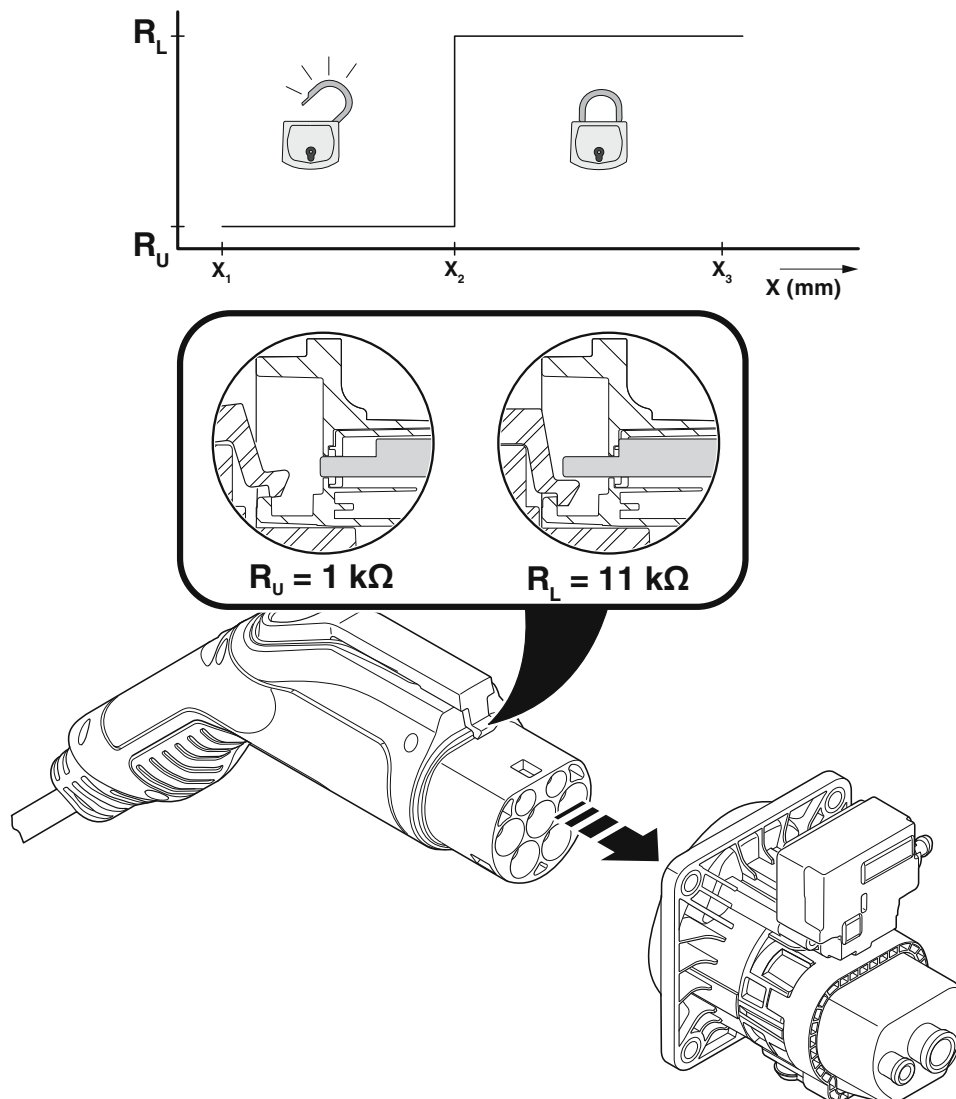
Pin assignment of vehicle charging inlets

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Schematic diagram



Detection for Vehicle Connector

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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC002898
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	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.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)(CAS: 573-58-0)
	Lead(CAS: 7439-92-1)
SCIP	b8178276-85c3-482f-ba17-87e7e8a2338b

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