Vehicle charging inlet - CHARX T2HCI12-1AC32-2,0M2

1271830

https://www.phoenixcontact.com/gb/products/1271830

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CHARX connect, Vehicle charging inlet, for charging electric vehicles (EV) with alternating current (AC), AC type 2, IEC 62196-2, 32 A / 250 V (AC), M6, X-Line, 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 2 AC vehicle charging connectors (EVSE), for installation in electric vehicles for e-mobility (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	1271830
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	XWCAID
Product Key	XWCAIC
GTIN	4063151461294
Weight per Piece (including packing)	1,461.7 g
Weight per Piece (excluding packing)	146.17 g
Customs tariff number	85444290
Country of origin	DE

Technical Data

Notes

General	A protective cap is supplied as standard for the AC contacts.

Product properties

Product type	Vehicle charging inlet
Application	for charging electric vehicles (EV) with alternating current (AC)
	for installation in electric vehicles (EV)
Locking type	Locking in the inserted state with a locking mechanism
Charging standard	AC type 2
Charging mode	Mode 2, 3

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
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	8 kW
Charging current	32 A

Power contact

Number	3 (L1, N, PE)
Rated voltage	250 V AC
Rated current	32 A AC

Signal contact

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

(PTC chain)

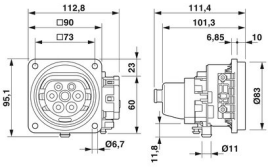
Sensor type	PTC chain
Standards/regulations	DIN□EN 60738-1
Messbereich_Widerstand	790 Ω ... 1420 Ω
Resistance	max. 1280 Ω ±5 K
Recommended measured current	≤ 1 mA (U_{max}= 16 V DC)
TEST Umgebungstemperatur Neu	-40 °C ... 130 °C
Cable structure	5 x 0,5 mm²
External cable diameter	1.6 mm -0.2 mm
Bending radius	min. 15 mm
Cable weight	7 kg/km

Cable resistance	≤ 37.1 Ω/km
Single wire, color	brown, gray
	brown, yellow, green

(Pt 1000)

Sensor type	Pt 1000
Standards/regulations	DIN EN 60751

Dimensions

Dimensional drawing	
Bore dimensions	73 mm x 73 mm, 73 mm x 73 mm

Material specifications

Material	Plastic
	Silver

Cable / line

Cable weight	approx. 385 kg/km
Conductor structure	3 x 6 mm²
External cable diameter	13.8 mm ±0.3 mm
Outer sheath, material	Silicone
External sheath, color	orange
Conductor resistance	≤ 3.2 Ω/km

Temperature sensor technology cable

Cable weight	7 kg/km
Conductor structure	2 x 0.5 mm²
External cable diameter	1.6 mm -0.2 mm
Outer sheath, material	PVC
Conductor resistance	≤ 37.1 Ω/km
Ambient temperature (operation)	-40 °C ... 130 °C

Communication cable

Cable weight	7 kg/km
Conductor structure	0.5 mm² + 0.5 mm²
External cable diameter	1.6 mm -0.2 mm
Outer sheath, material	PVC
Conductor resistance	≤ 37.1 Ω/km
Single wire, cross section	6 mm²

Standards and regulations

Standards

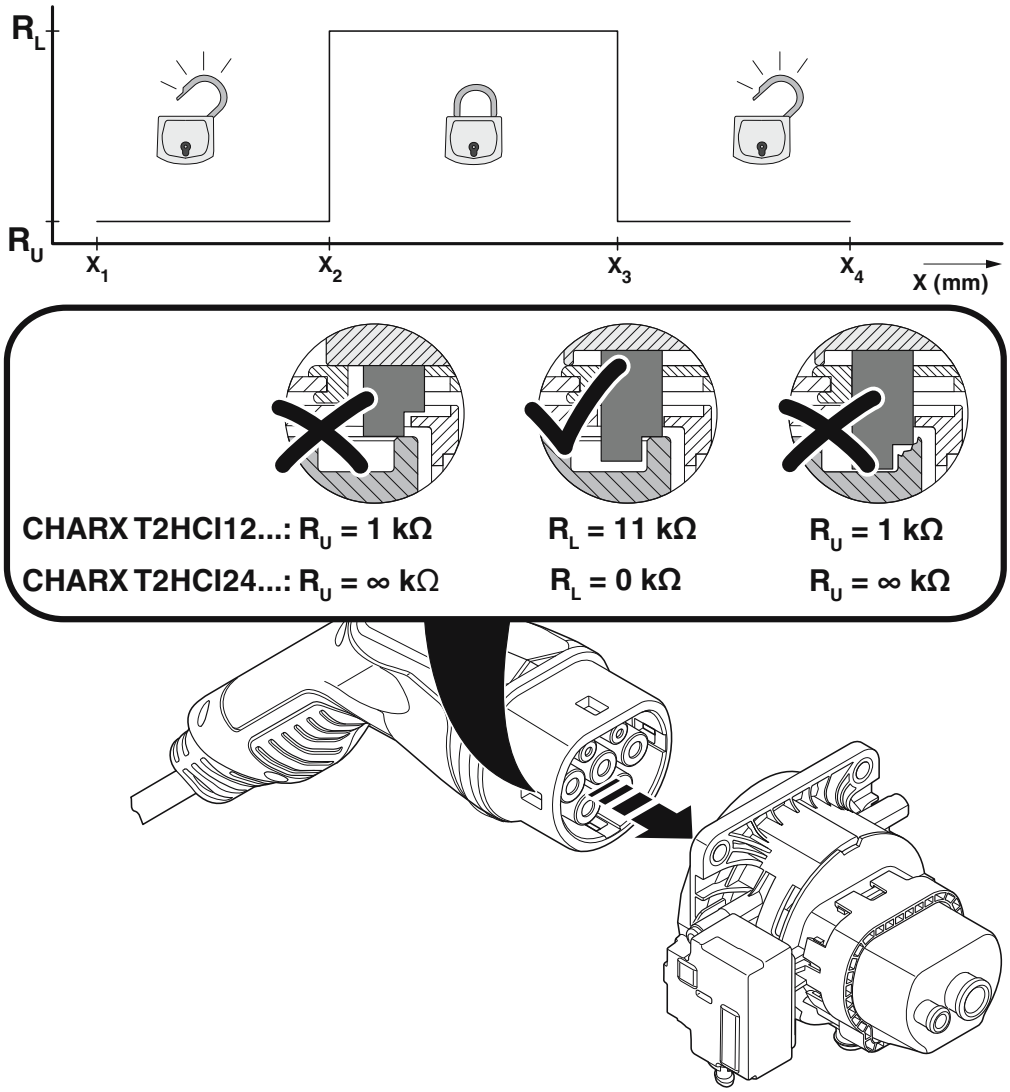
Standards/regulations	IEC 62196-2

Mounting

Fixing screws	M6
Screws included in the scope of delivery	none

Drawings

Schematic diagram



Detection for Vehicle Connector

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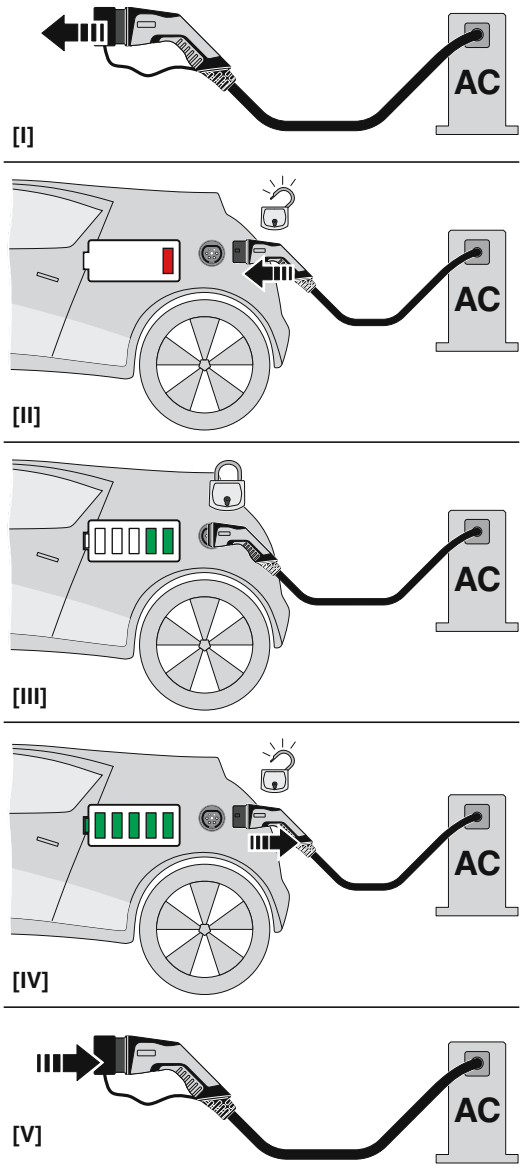
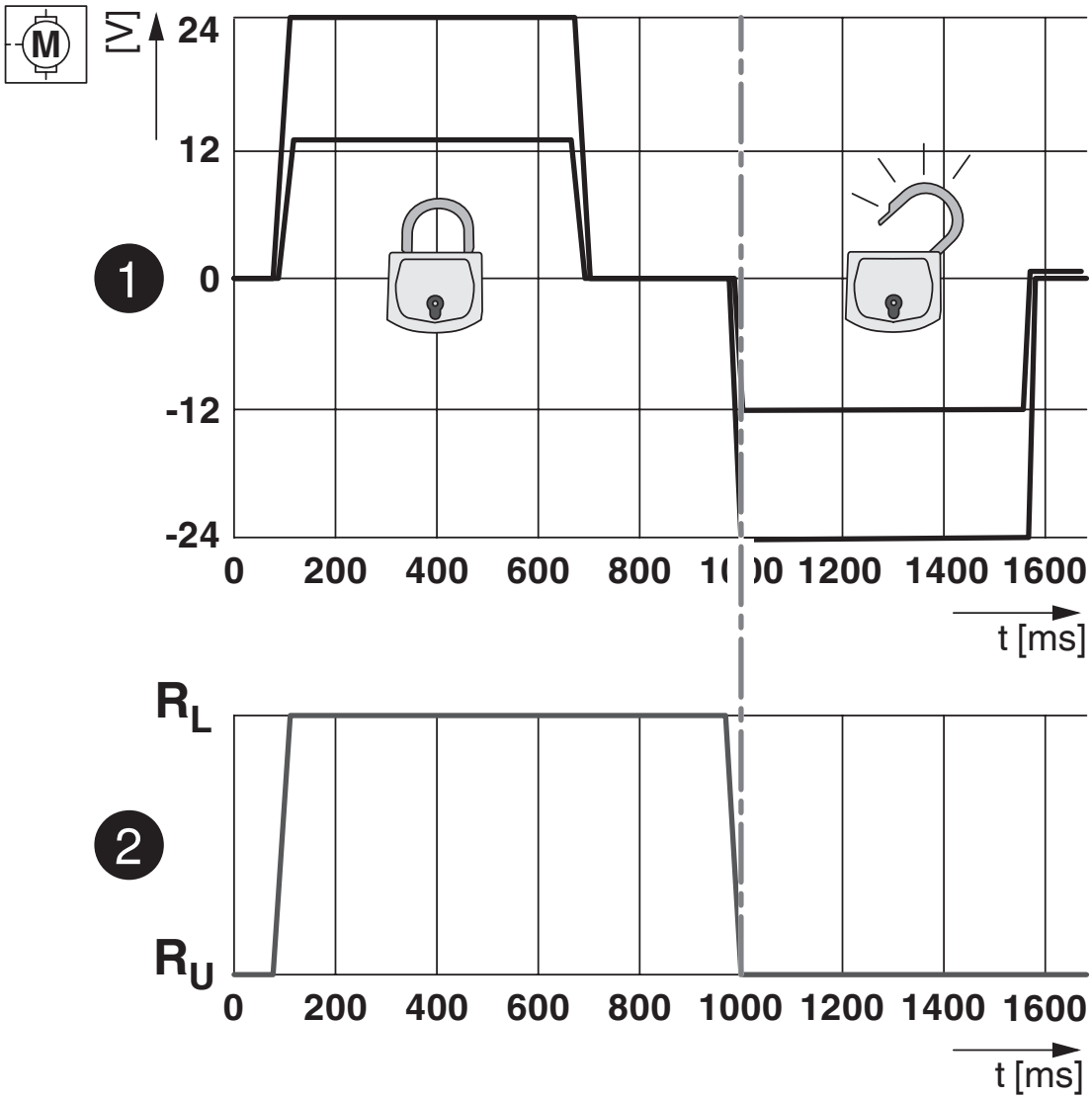
Functional drawing



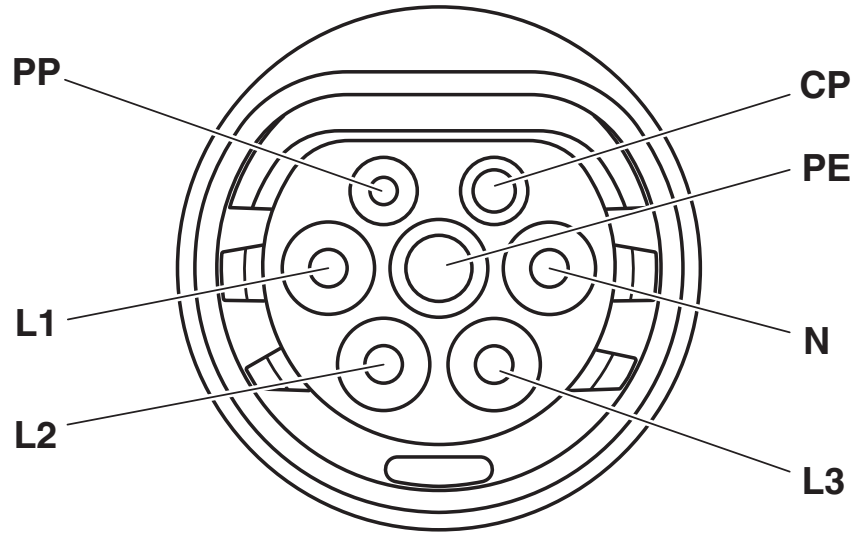
Operating instructions

Diagram



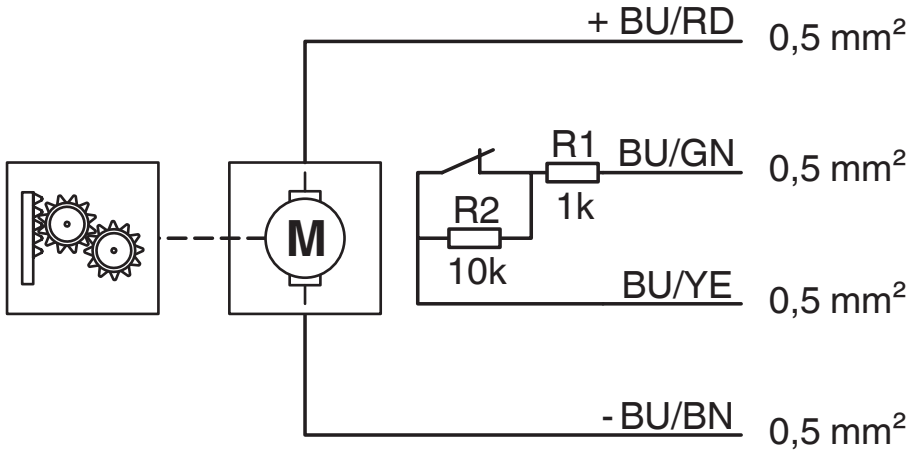
Locking states of the locking actuator

Connection diagram



Pin assignment of vehicle charging inlets

Schematic diagram



Block diagram of the locking actuator

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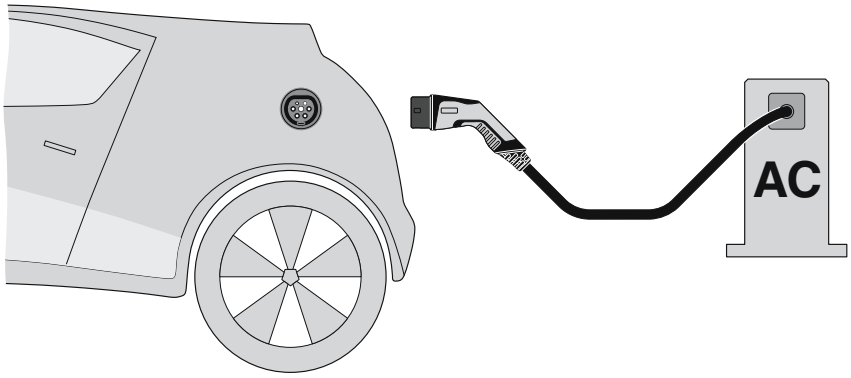
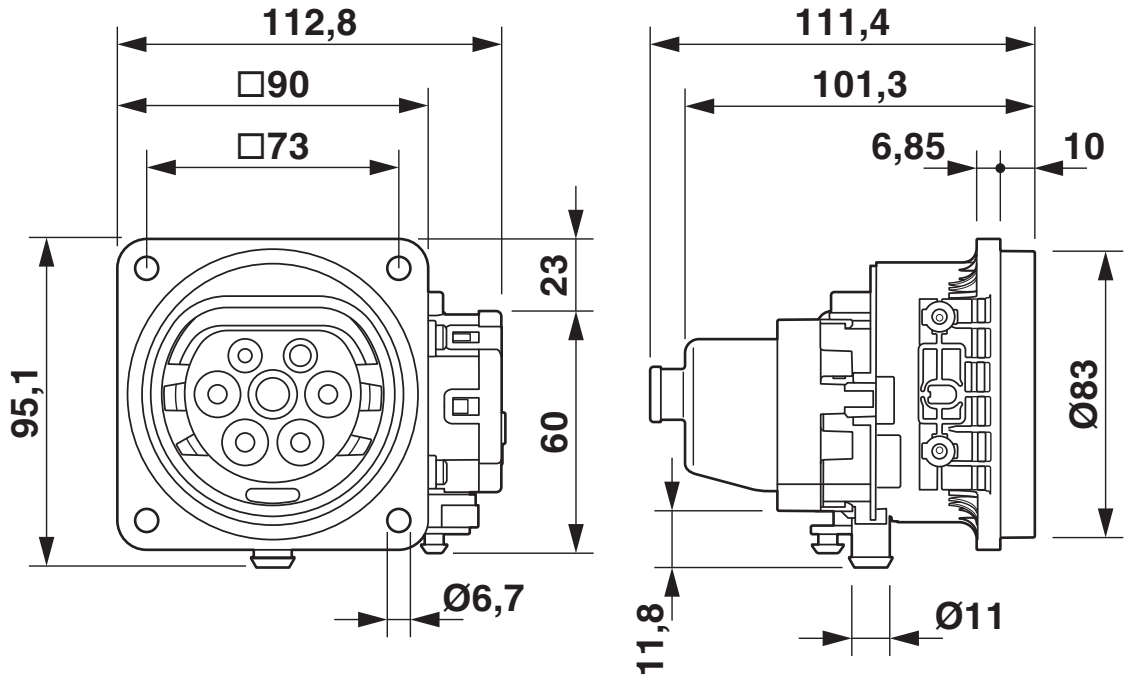
Connection diagram



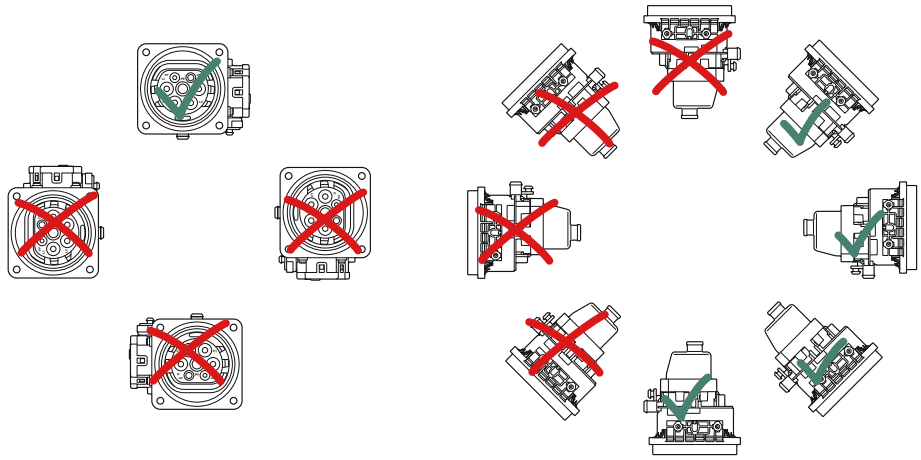
Terminology definition

Dimensional drawing



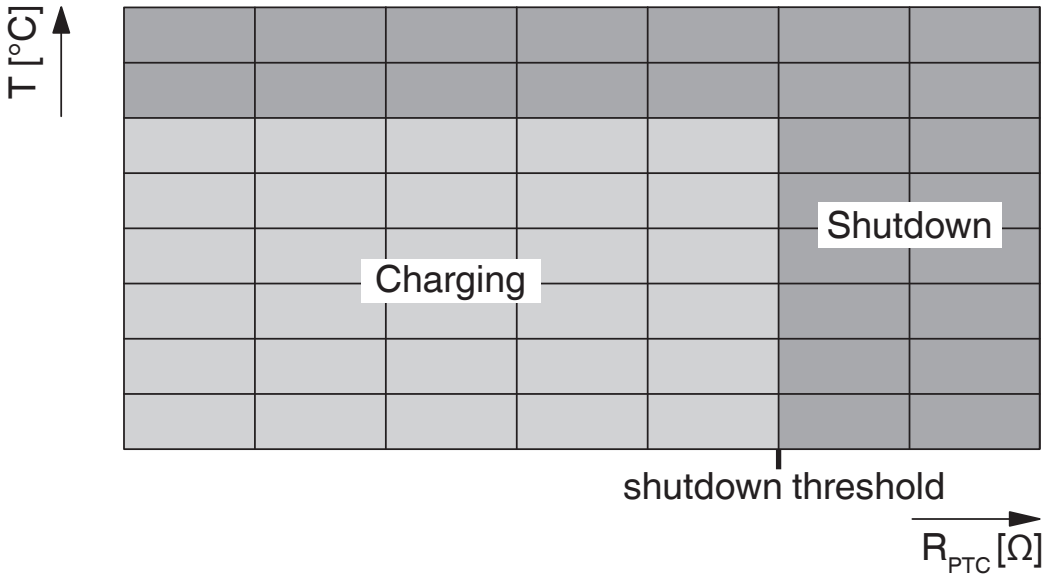
Dimensional drawing

Connection diagram



Installation positions

Schematic diagram



Temperature sensor technology resistance range at AC contacts

Classifications

ECLASS

ECLASS-10.0.1	27144706
ECLASS-11.0	27144706

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

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