Vehicle charging inlet - CHARX T2HBI24-DC200-2,0M2

1211217

https://www.phoenixcontact.com/in/products/1211217

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CHARX connect, Vehicle charging inlet, Locking actuator right, for charging with direct current (DC), for installation in electric vehicles (EV), Combined Charging System, CCS type 2, IEC 62196-2, IEC 62196-3, 200 A / 1000 V (DC), length: 2 m, M6, Generation 4, 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 2 CCS vehicle charging connectors (EVSE), for installation in electric vehicles for electromobility (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
- Safe against overheating with temperature measurement at every DC power contact
- Integrated interlock during charging
- Manual emergency release of the locking actuator
- Protected and sealed against dirt and water with a high degree of protection

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Commercial Data

Order Key	1211217
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	XWC
Product Key	XWCAID
GTIN	4063151283933
Weight per Piece (including packing)	5,256 g
Weight per Piece (excluding packing)	5.21 g
Customs tariff number	85444290
Country of origin	PL

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Technical Data

Notes

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

Product properties

Application	for charging with direct current (DC)
	for installation in electric vehicles (EV)
	Combined Charging System
Type	Locking actuator right
Locking type	Locking in the inserted state with a locking mechanism
Insertion force	< 100 N
Charging standard	CCS type 2
Charging mode	Mode 4

Electrical properties

Type of signal transmission	Pulse width modulation with modulated Powerline communication according to ISO/IEC 15118 / DIN SPEC 70121
Type of charging current	DC
Note on the connection method	Crimp connection, cannot be disconnected
Insulation resistance	> 200 MΩ
Coding	4.7 kΩ (between PE and PP)
Maximum capacity	200 kW
Temperature measurement	DC contacts: 2x PT1000 (DIN EN 60751)

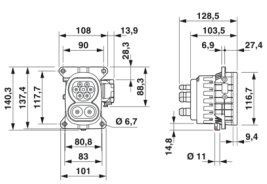
Power contact

Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	200 A DC

Signal contact

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

Dimensions

Dimensional drawing	
Width	108 mm
Height	140.25 mm
Depth	133.5 mm

Bore dimensions	117.65 mm x 90 mm, 117.65 mm x 83 mm

Material specifications

Color Housing	black
Flammability rating according to UL 94	V0
Contact surface	Ag
Material	Plastic

Connector

Insertion/withdrawal cycles	> 10000

Cable / line

Cable length	2 m (DC cables)
	2 m (PE cable)
	1 m (Locking actuator cables)
	1 m (Temperature sensors cables)
	1 m (Communications cables)
Cable weight	approx. 889 kg/km

Cable structure

Cable structure	2 x 70 mm²
Outer sheath, material	Silicone
External sheath, color	orange
External cable diameter	17.9 mm ±0.3 mm

Electrical properties

Conductor resistance	≤ 0.259 Ω/km

Mechanical properties

Smallest bending radius, fixed installation	4 x D

Mechanical properties

Mechanical data

Insertion force	< 100 N
Withdrawal force	< 100 N

Design

Design	Generation 4
Customer variations	On request

Environmental and real-life conditions

Ambient conditions

Degree of protection	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)

	IP55 (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

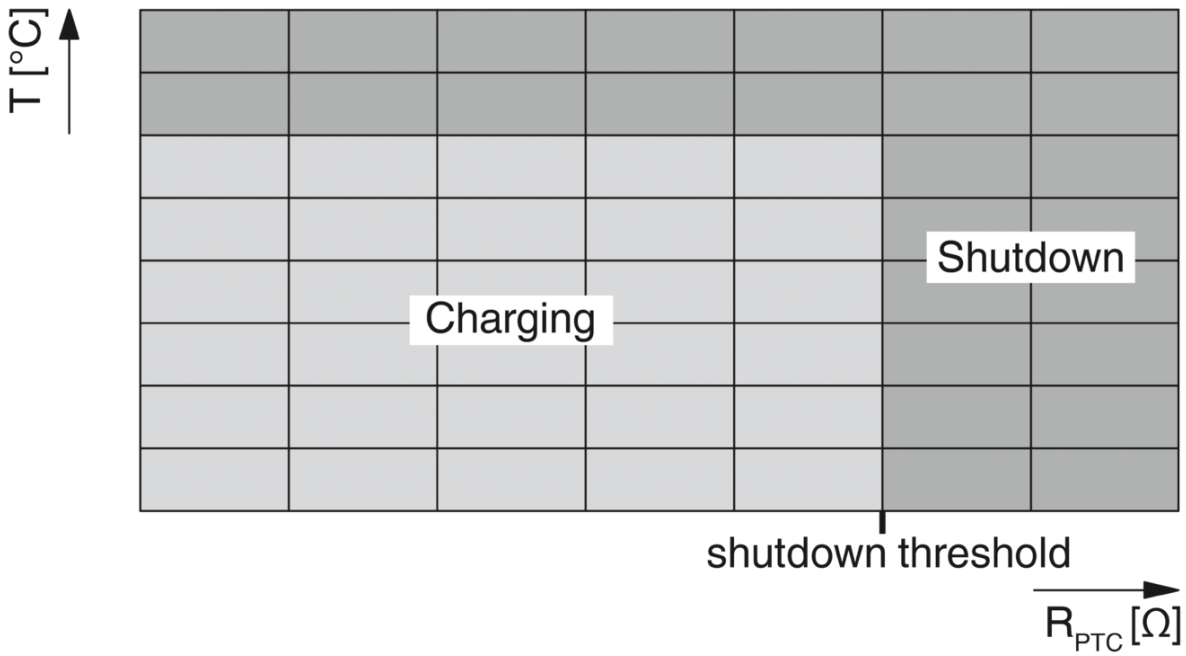
Standards/regulations	IEC 62196-2
	IEC 62196-3

Mounting

Restrictions to mounting position	Only 0 to 90 degree frontal inclination possible, see figure
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none
Position of the locking actuator	Right-side

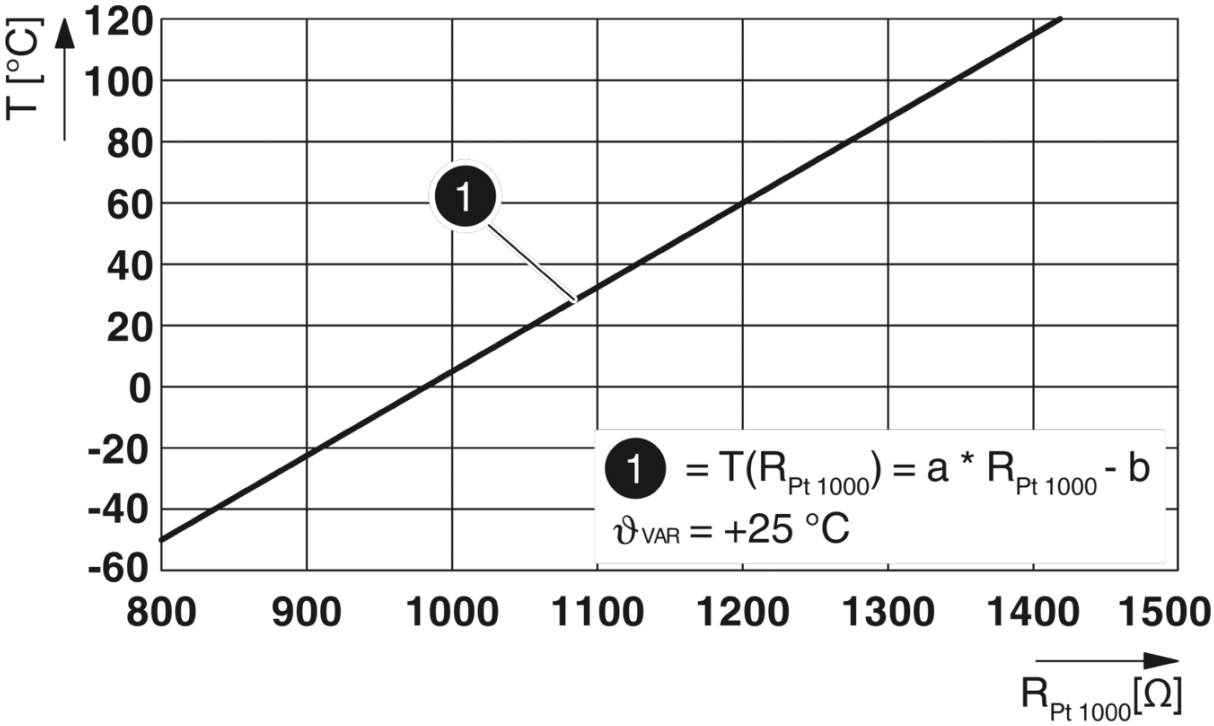
Drawings

Schematic diagram



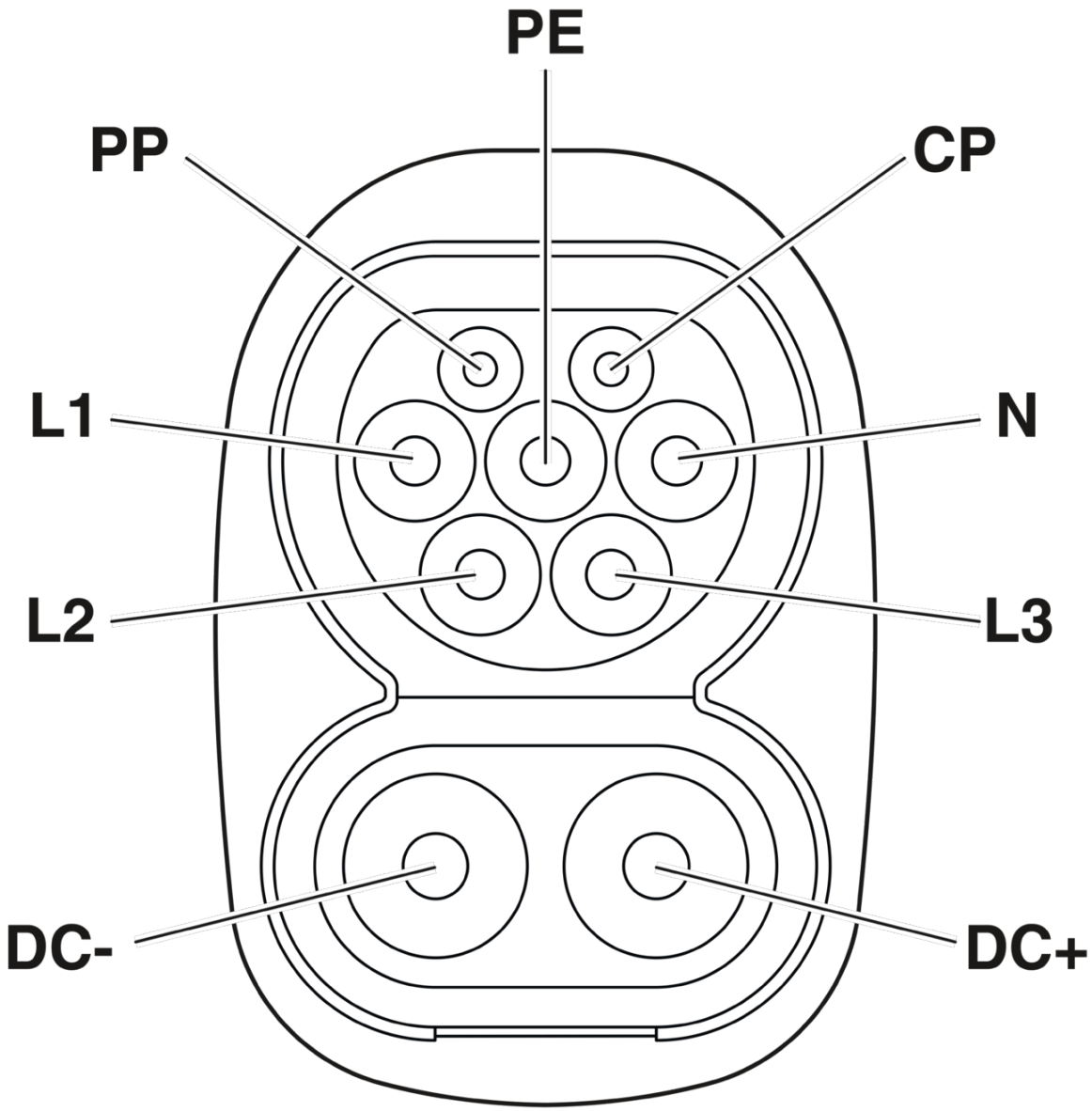
Temperature sensor technology resistance range at AC contacts

Diagram



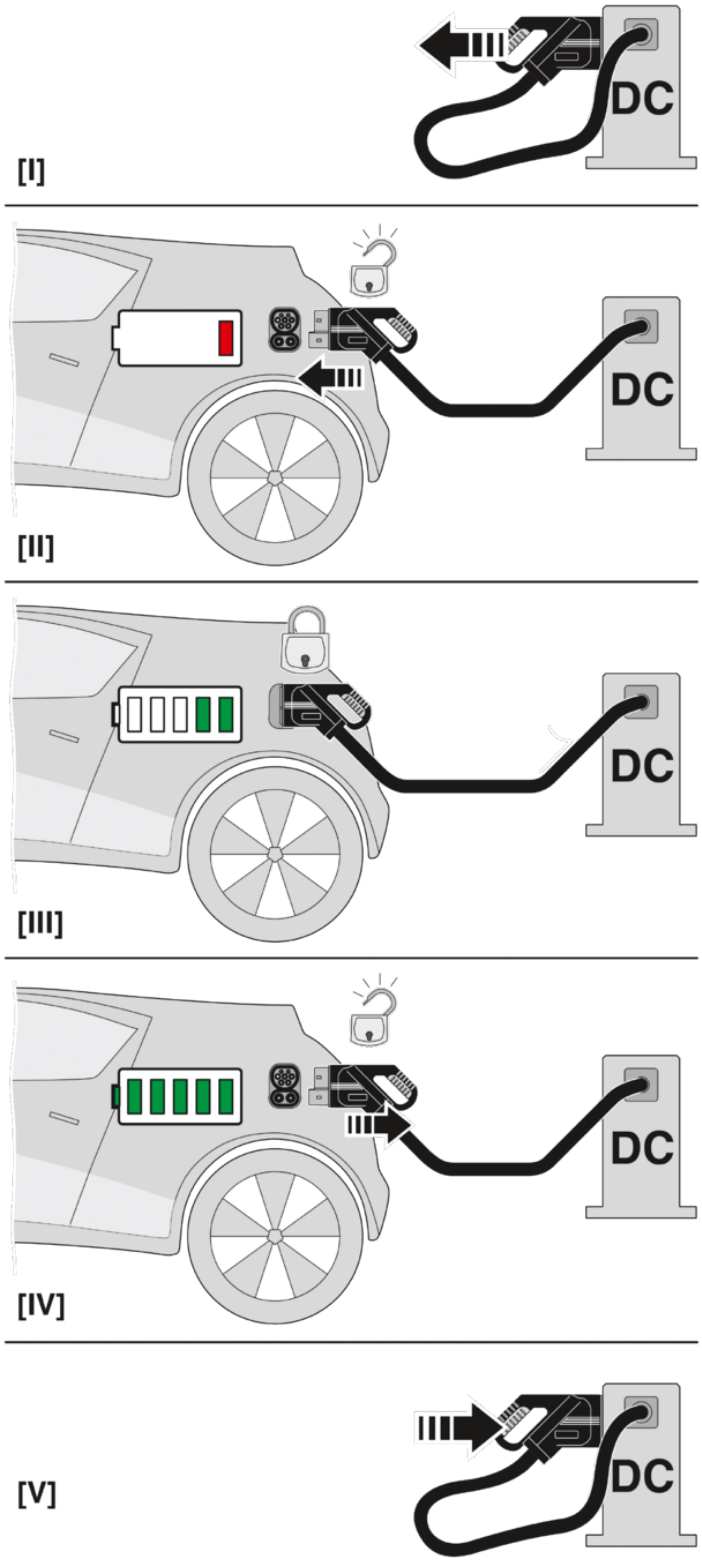
Pt 1000 characteristic curve at an ambient temperature of 25°C for temperature measurement at the DC contacts

Connection diagram



Pin assignment of Vehicle Inlet

Schematic diagram



Operating instructions

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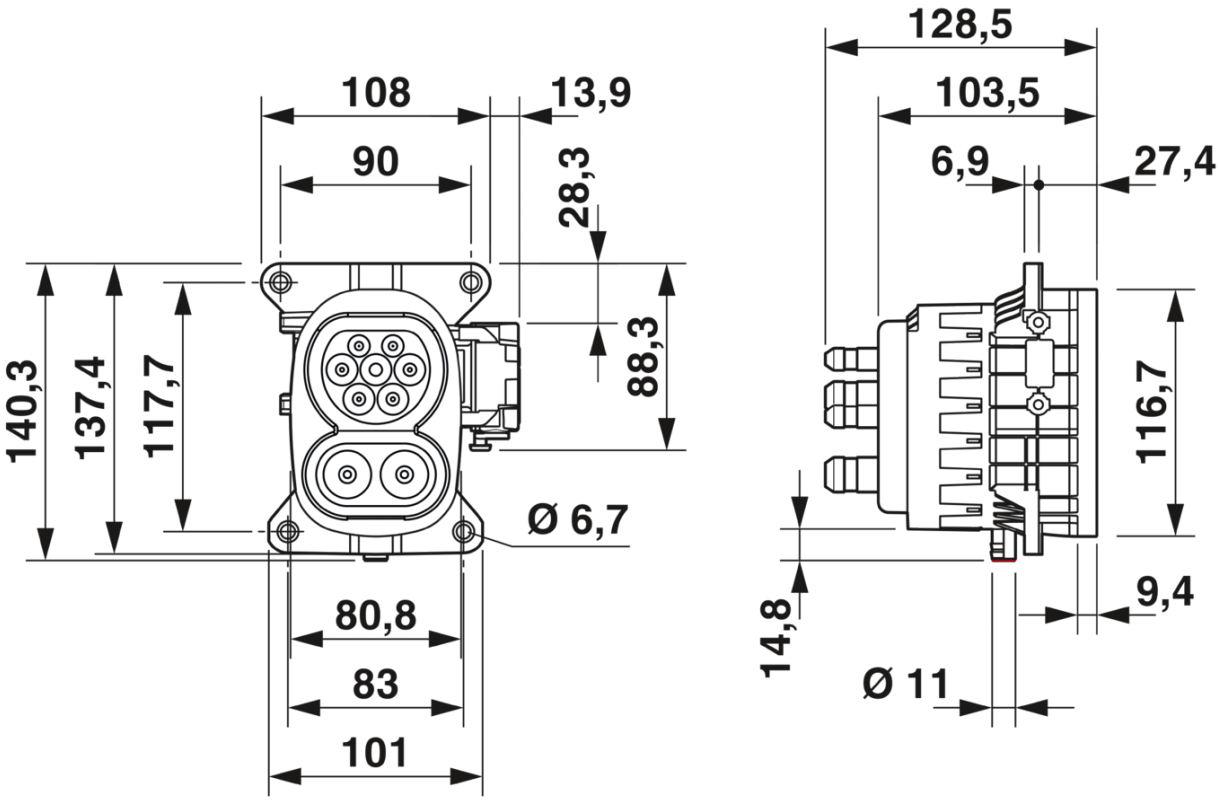
Dimensional drawing



Dimensional drawing

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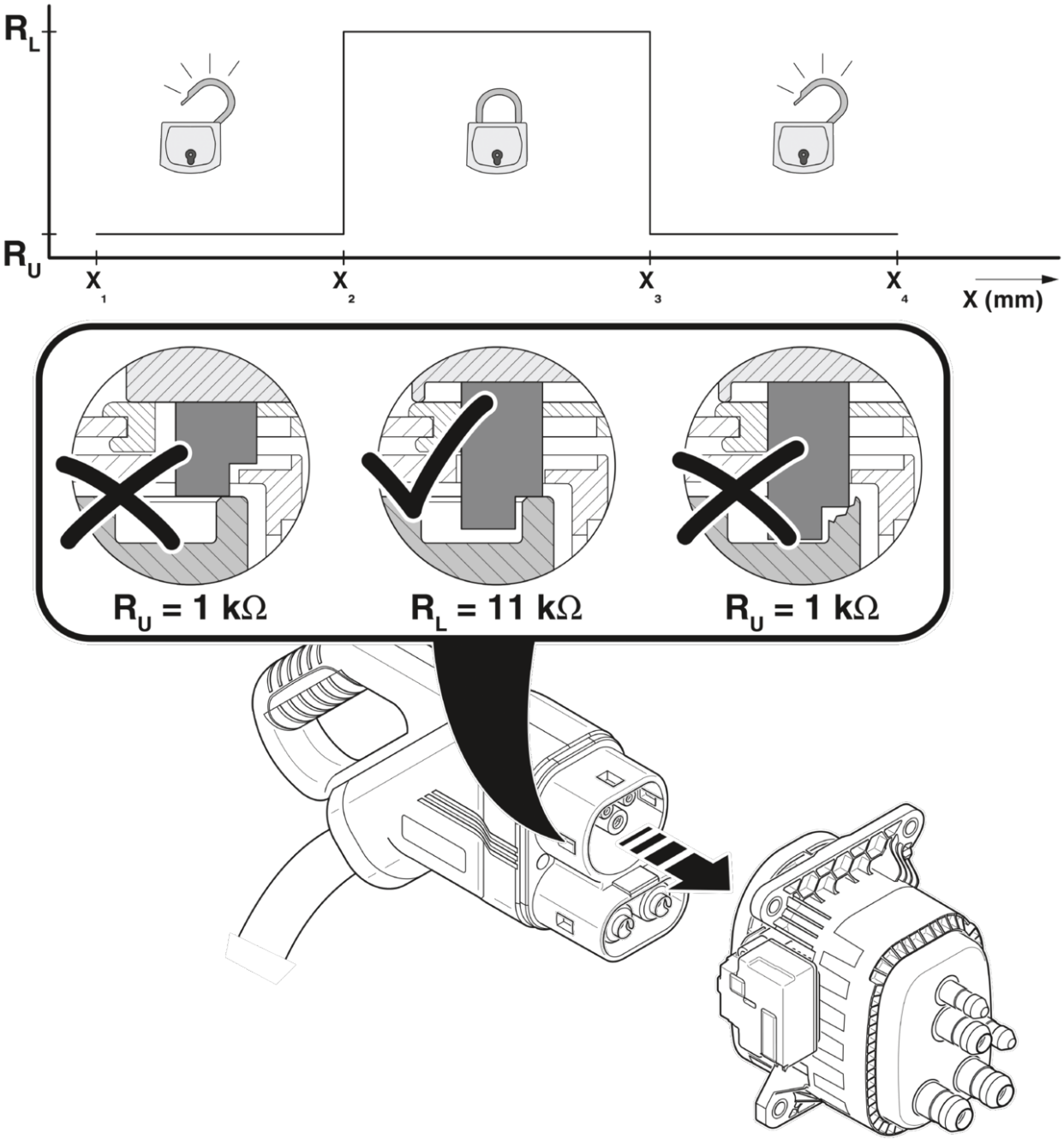
Connection diagram



Detection for Vehicle Connector

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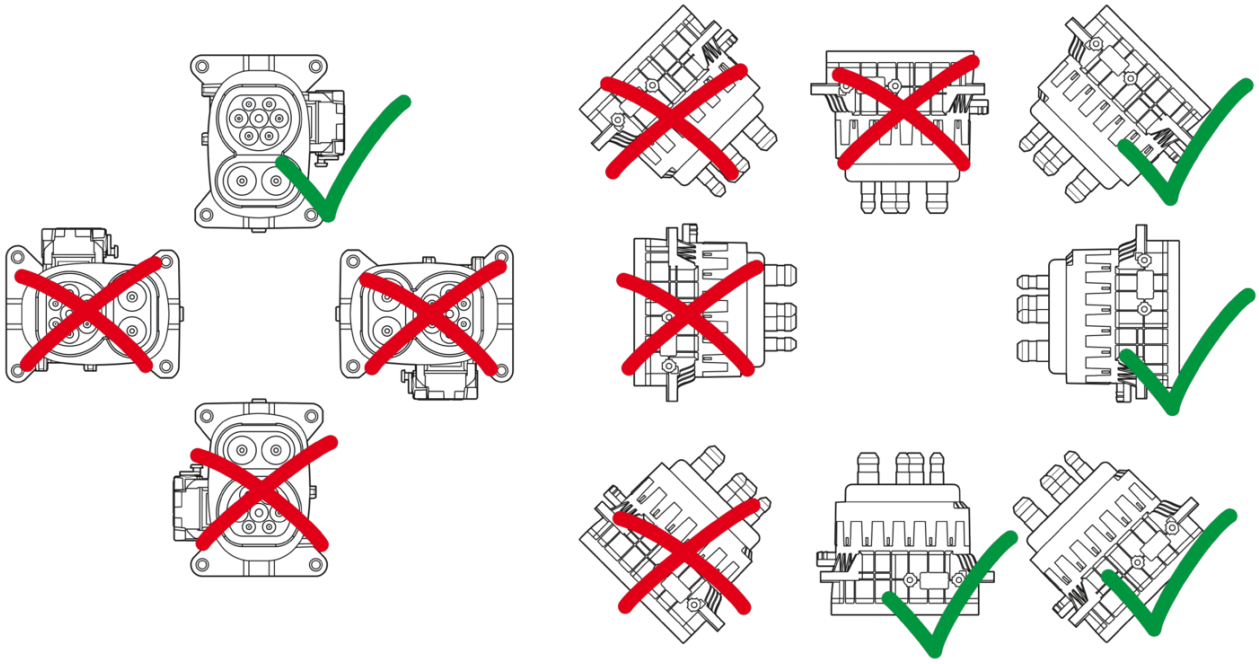
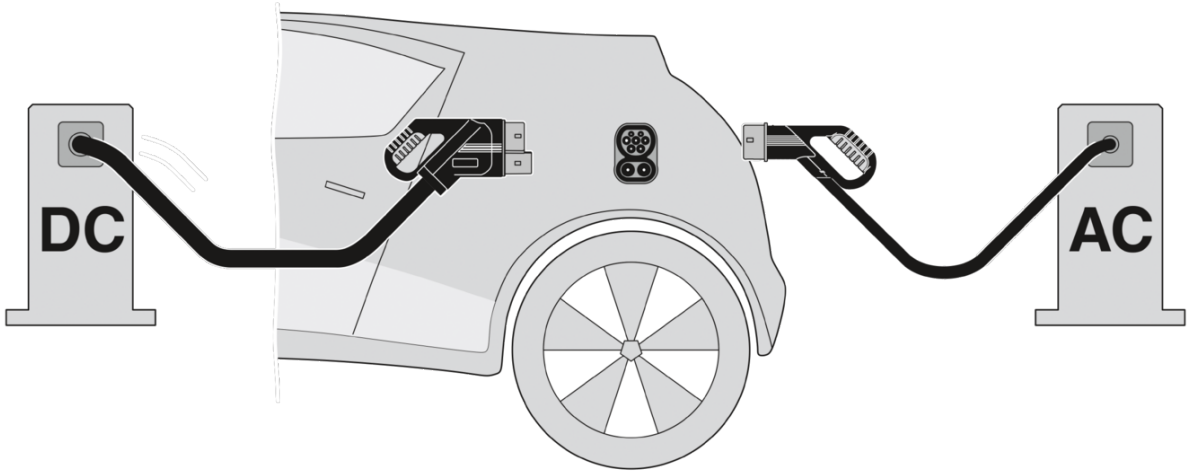
Connection diagram



Installation positions

Schematic diagram



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.

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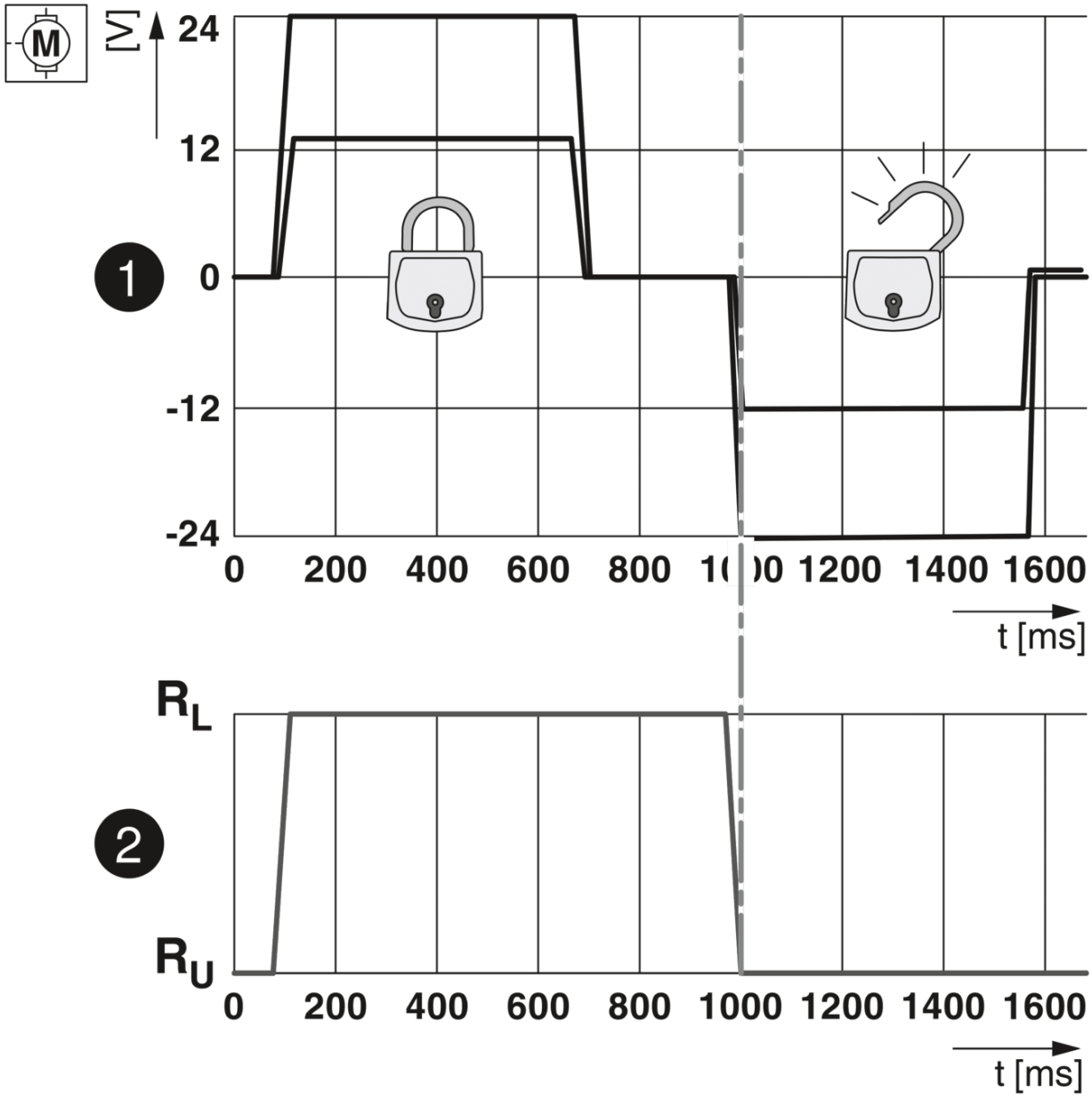
Diagram



Locking states of the locking actuator

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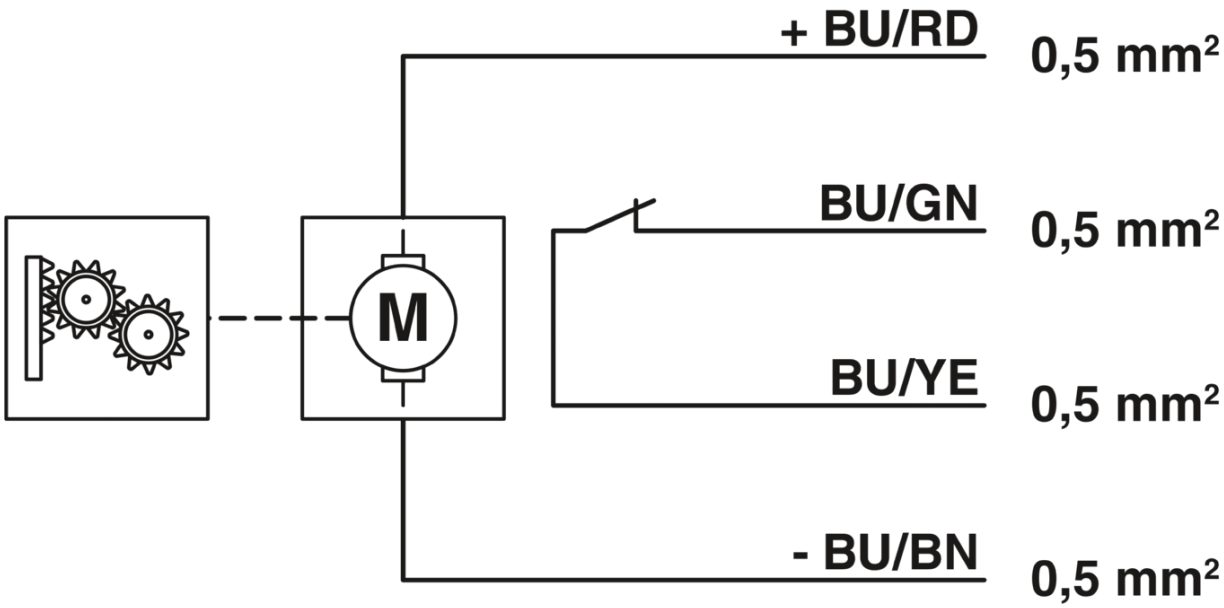
Block diagram



Block diagram of the locking actuator

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Classifications

ECLASS

ECLASS-9.0	27144706
ECLASS-10.0.1	27144706
ECLASS-11.0	27144706

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