

# EV-T2MBIE12-3ACDC-INFRA - Vehicle Connector test adapter



1623492

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CHARX connect, Vehicle Connector test adapter, Accessories, as a test adapter for charging station tests, CCS type 2, IEC 62196-3, 125 A / 850 V (DC), 20 A / 250 V (AC), length: 2 m, locking actuator: 12 V, 4-pos., Front and rear mounting

## Product description

Special Vehicle Inlet for charging station tests, solely for laboratory tests, tests with charging stations, and further analyses on the infrastructure side - not for installation in any type of vehicle, cannot be used outside of the laboratory area

## Commercial data

Item number	1623492
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBACD
GTIN	4055626172149
Weight per piece (including packing)	4,144 g
Weight per piece (excluding packing)	3,994 g
Country of origin	DE

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## Technical data

### Product properties

Product type	Vehicle Connector test adapter
Product family	CHARX connect
Application	as a test adapter for charging station tests Combined Charging System
Type	Accessories
Charging standard	CCS type 2
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	> 5 k $\Omega$
Temperature monitoring	2x Pt 1000
Type of charging current	AC 3-phase
Charging power	26.6 kW
Charging current	32 A
Type of charging current	DC
Charging power	106 kW
Charging current	125 A

### Power contact

Number	7 (L1, L2, L3, N, PE, DC+, DC-)
Rated voltage	250 V AC 850 V DC
Rated current	125 A DC 20 A AC

### Signal contact

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

### Temperature sensors (Pt 1000)

Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts
Switch-off temperature	90 °C $\pm$ 1 K (equivalent to a Pt 1000 value of 1346.5 $\Omega$ )
Long-term stability	0.06 % (after 1000 hours at 130 °C)
Recommended measured current	1 mA (1 V at 0°C)

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Coefficient	3850 ppm/K
Ambient temperature	-50 °C ... 130 °C (Operation)

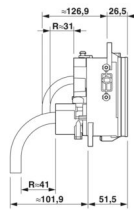
## Locking actuator

Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	left-side

## Locking actuator

Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	left-side
Possible power supply range at the motor	9 V ... 16 V
Maximum voltage for locking detection	30 V
Typical motor current for locking	0.2 A
Reverse current of the motor	max. 1 A
Max. dwell time with reverse current	1000 ms
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)	-30 °C ... 50 °C
Cable length	0.5 m
Cable structure	4 x 0.5 mm <sup>2</sup>

## Dimensions

Dimensional drawing	
Bore dimensions	116 mm x 46 mm / 116 mm x 70 mm

## Cable/line

Cable length	2 m (AC cables)
	2 m (DC cables)
	0.5 m (Locking actuator cables)
Cable structure	2 x 35 mm <sup>2</sup> + 1 x 25 mm <sup>2</sup> + 2 x 2.5 mm <sup>2</sup> + 3 x 2 x 0.5 mm <sup>2</sup>
Cable length	2 m

## Mechanical properties

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## Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	5000 m (above sea level)

## Standards and regulations

### Standards

Standards/regulations	IEC 62196-3
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## Mounting

Mounting type Vehicle charging inlet	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.80 mm (ø)

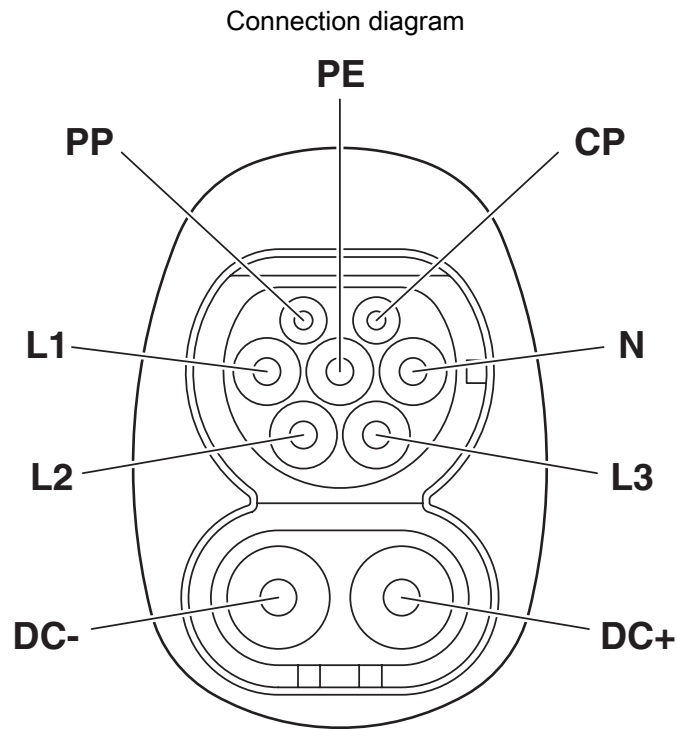
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## Drawings

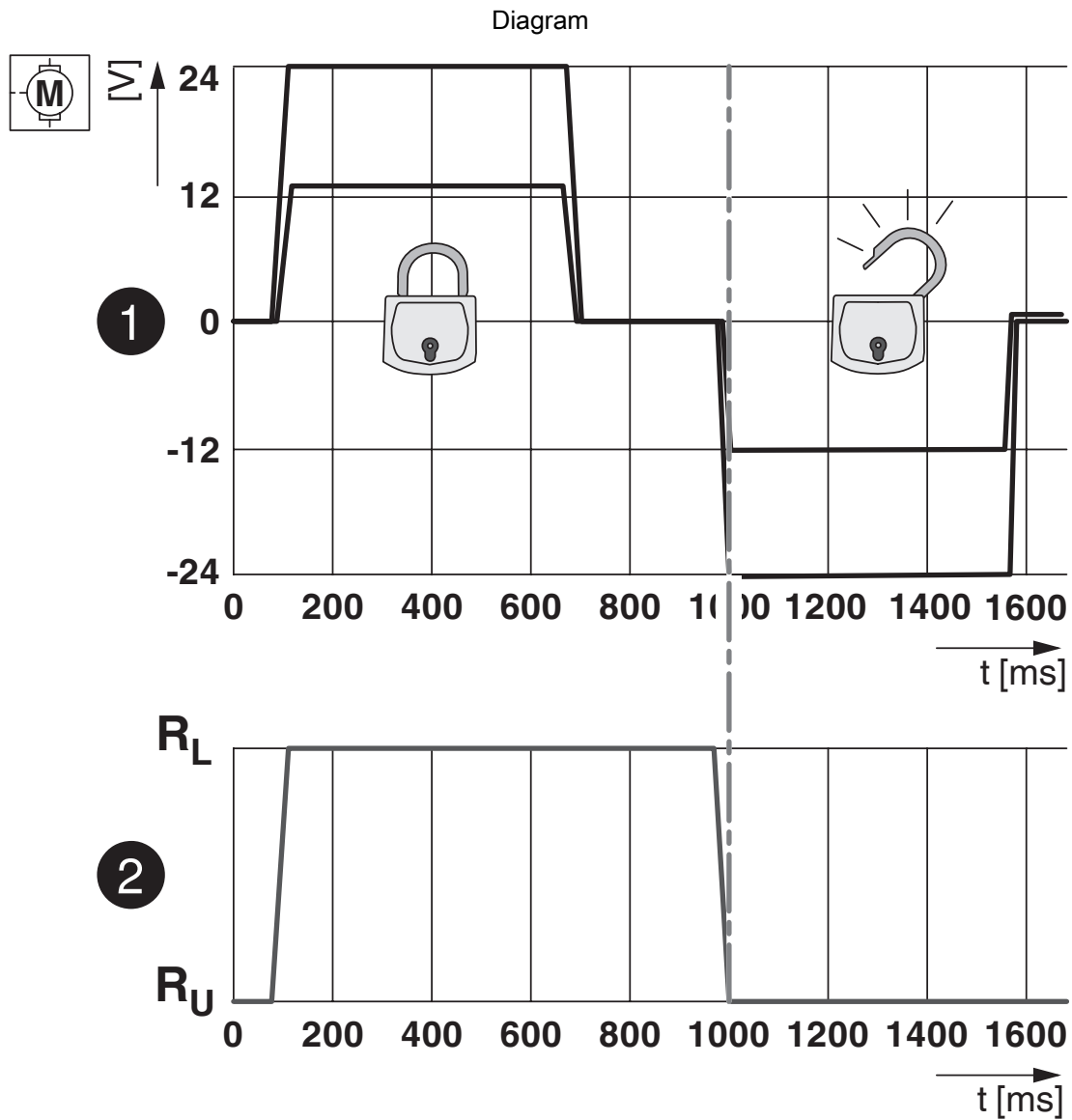


Pin assignment of vehicle charging inlets

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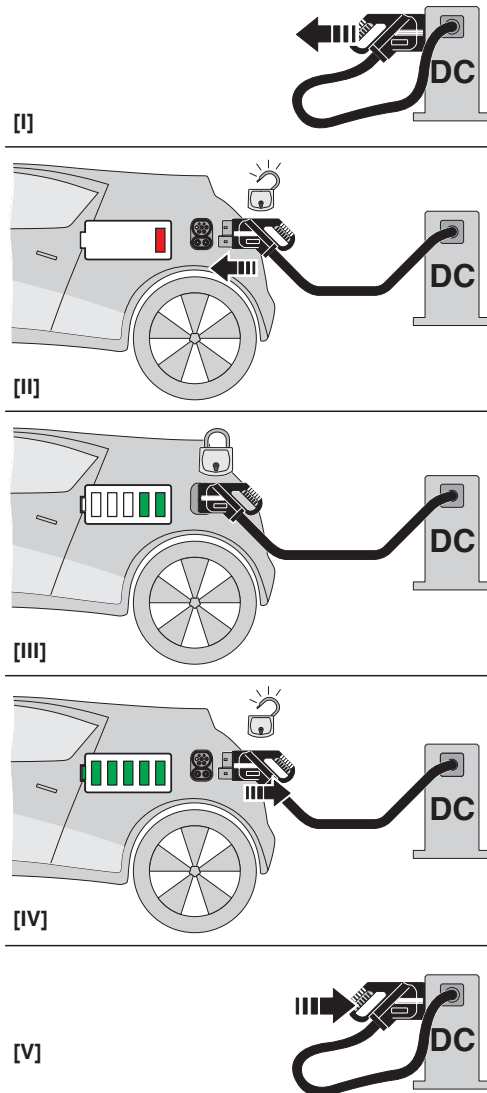
Locking states of the locking actuator

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## Schematic diagram



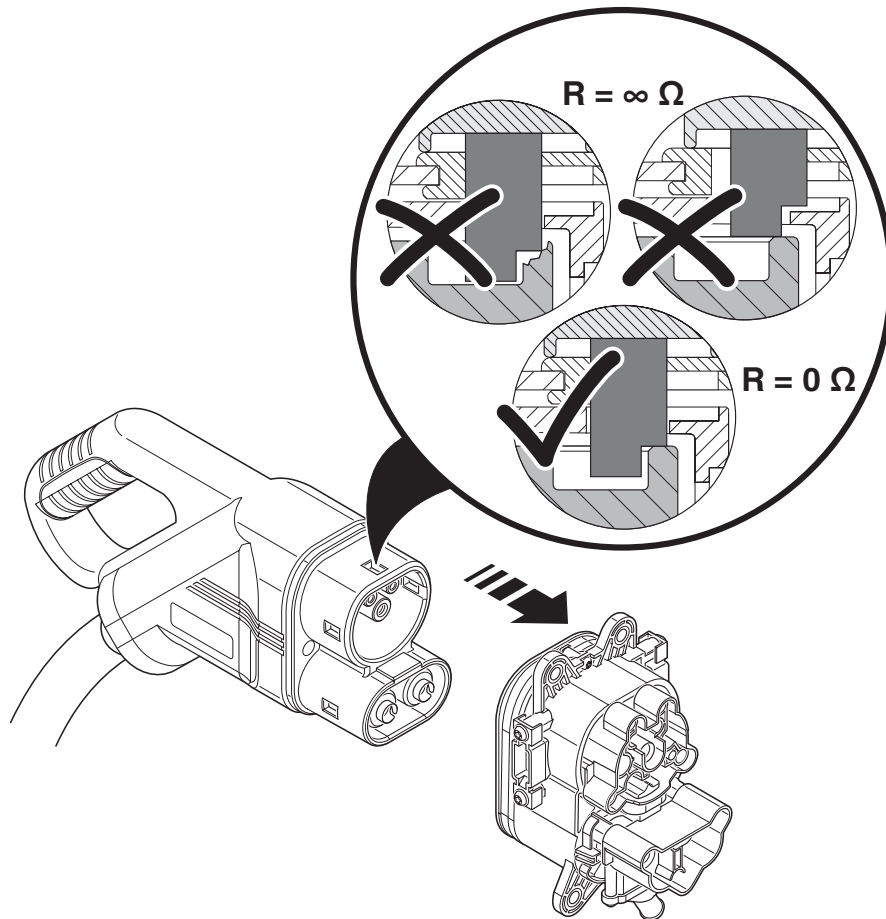
Operating instructions

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Schematic diagram



Detection for Vehicle Connector

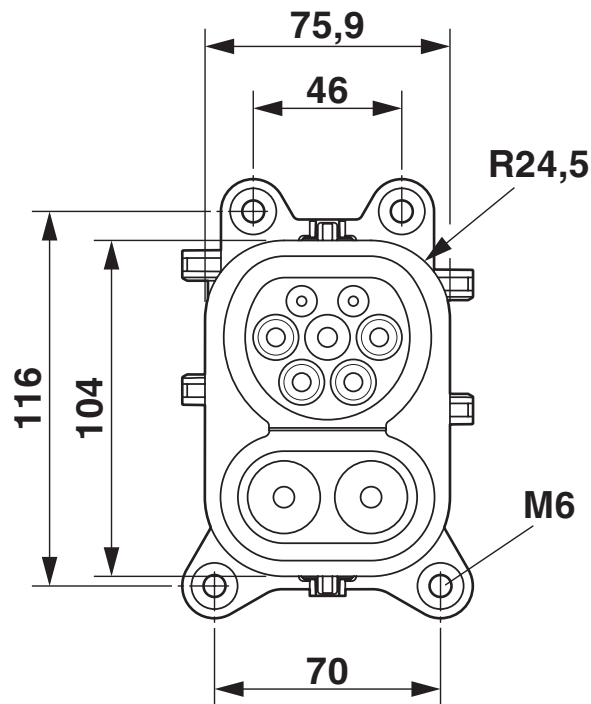


# EV-T2MBIE12-3ACDC-INFRA - Vehicle Connector test adapter

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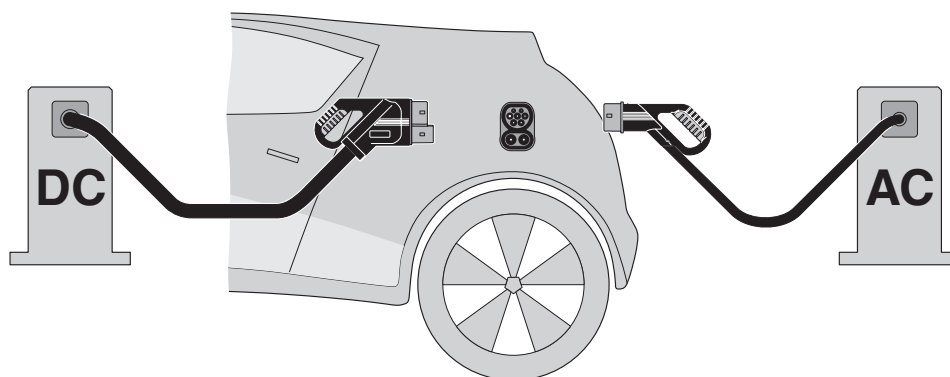
<https://www.phoenixcontact.com/us/products/1623492>

Dimensional drawing



Dimensional drawing top view

Schematic diagram



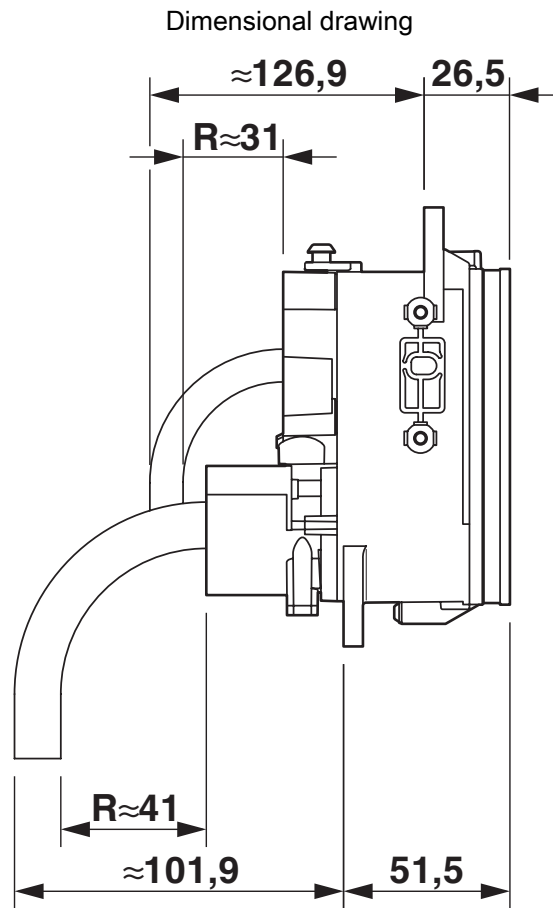
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

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Dimensional drawing, side view

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## Environmental product compliance

### EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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## Accessories

### EV-T2M4CC-DC125A-5,0M50ESBK00 - DC charging cable

1409060

<https://www.phoenixcontact.com/us/products/1409060>



CHARX connect, DC charging cable, with vehicle charging connector and open cable end, for charging electric vehicles (EV) with direct current (DC), CCS type 2, IEC 62196-3, housing: black, gray, PHOENIX CONTACT logo, cable: 5 m, black, straight

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### EV-T2M3C-3AC20A-5,0M2,5ESBK00 - AC charging cable

1622040

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CHARX connect, AC charging cable with Vehicle Connector, open cable end, with protective cap, Type 2, IEC 62196-2, cable: 5 m

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## EV-T2G3C-3AC20A-5,0M2,5ESBK01 - AC charging cable

1627365

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CHARX connect comfort, AC charging cable, with vehicle charging connector and open cable end, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, with protective cap, Type 2, IEC 62196-2, 20 A / 480 V (AC), housing: black, gray, PHOENIX CONTACT logo, cable: 5 m, black, straight

## EV-T2M3S-E-LOCK12V - Locking

1624129

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CHARX connect modular, Locking, Accessories, for attaching to infrastructure charging sockets, Type 2, GB/T, IEC 61851-1, Single wires, length: 0.5 m, locking actuator: 12 V, 4-pos.

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## EV-T2M3S-E-LOCK24V - Locking

1622317

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CHARX connect modular, Locking, Accessories, with single-core wires, without holder, for locking infrastructure charging sockets when plug is inserted, Type 2, GB/T, IEC 61851-1, Single wires, length: 0.5 m, locking actuator: 24 V, 4-pos.



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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)