

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



1623492

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CHARX connect, CCS type 2, Vehicle Connector test adapter, 125 A permanent, 850 V DC, 20 A, 250 V AC, Accessories, length: 2 m, Front and rear mounting, as a test adapter for charging station tests, IEC 62196-3

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
Charging standard	CCS type 2
Charging mode	Mode 2, 3, 4
Customer variations	On request

Electrical properties

Note on the connection method	Crimp connection, cannot be disconnected
Temperature monitoring	2x Pt 1000

Charging power and current (AC charging (3-phase))

Type of charging current	AC 3-phase
Charging current	32 A
Charging power	26.6 kW

Charging power and current (DC charging)

Type of charging current	DC
Charging current	125 A
Charging power	106 kW

Pin assignment (Leistungskontakte)

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

Pin assignment (Signalkontakte)

Type of signal transmission	Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
Insulation resistance	> 5 kΩ

Locking actuator

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

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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 ²

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 ±1 K (equivalent to a Pt 1000 value of 1346.5 Ω)
Long-term stability	0.06 % (after 1000 hours at 130 °C)
Recommended measured current	1 mA (1 V at 0°C)
Coefficient	3850 ppm/K
Ambient temperature	-50 °C ... 130 °C (Operation)

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 ² + 1 x 25 mm ² + 2 x 2.5 mm ² + 3 x 2 x 0.5 mm ²
Cable length	2 m

Mechanical properties

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

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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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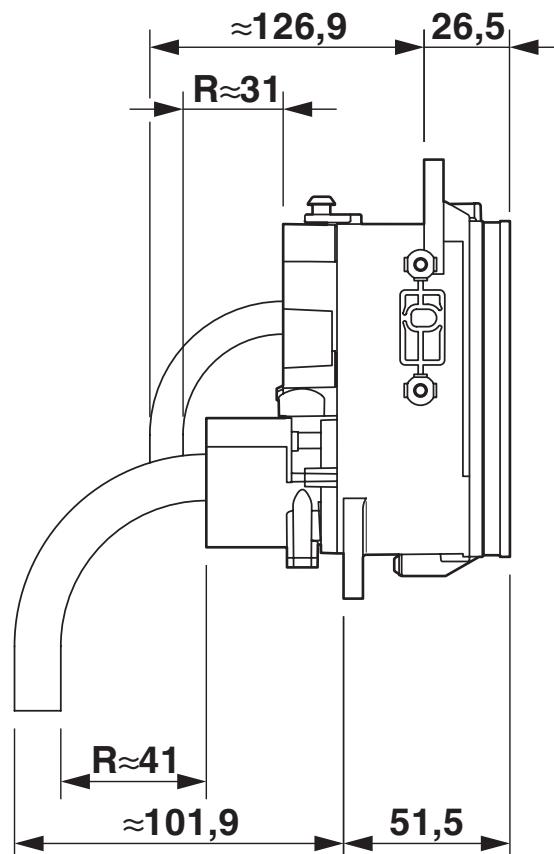


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Drawings

Dimensional drawing



Dimensional drawing, side view

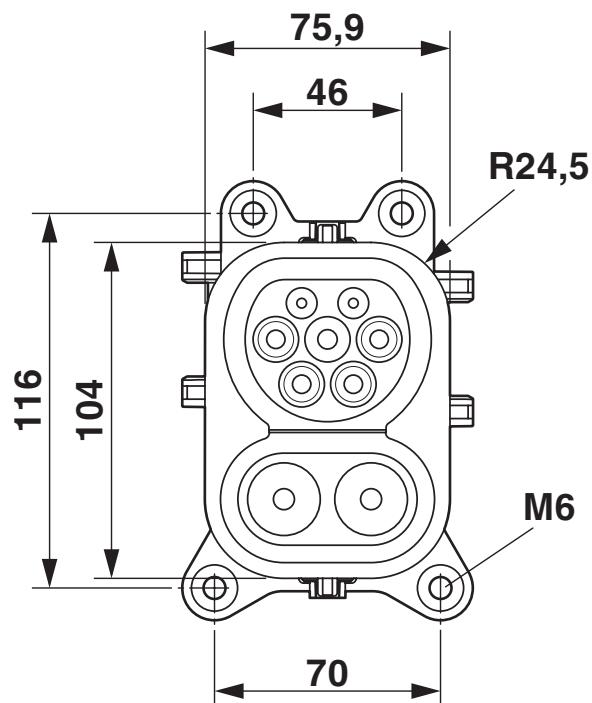
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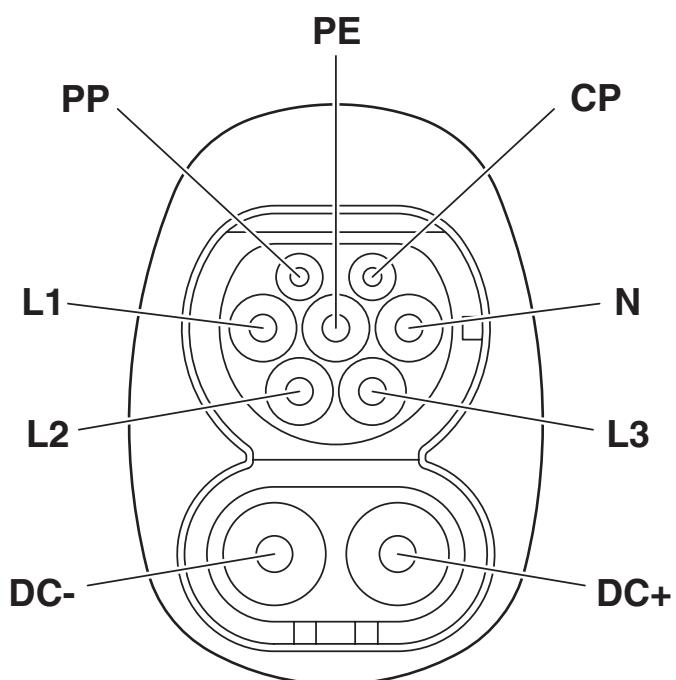
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Dimensional drawing



Dimensional drawing top view

Connection diagram



Pin assignment of vehicle charging inlets

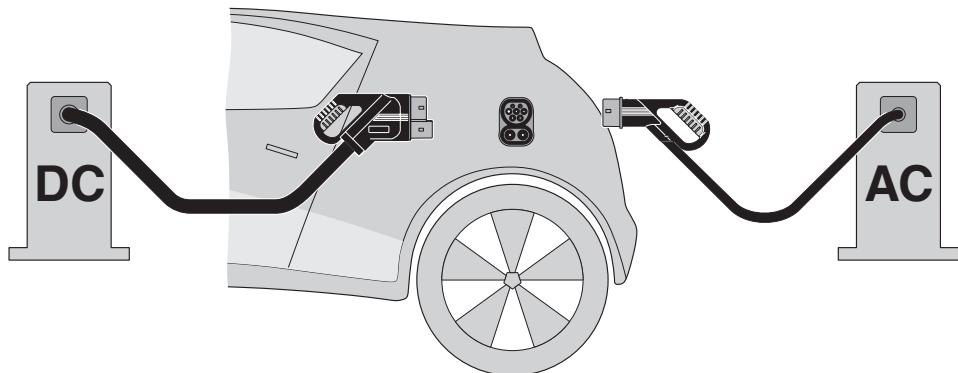
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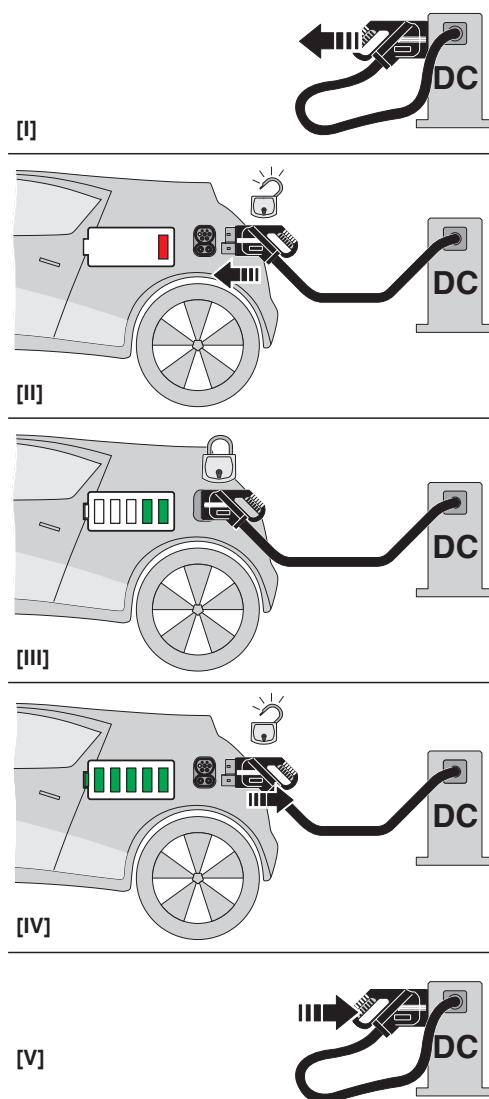
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Schematic diagram



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.

Schematic diagram



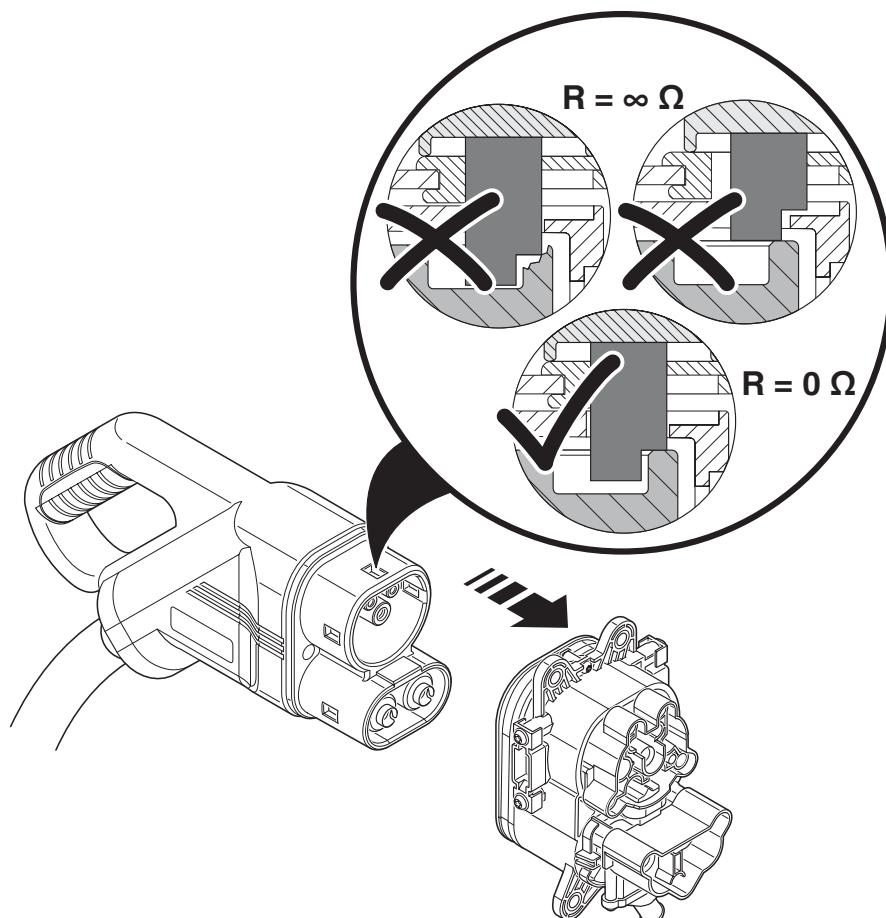
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Schematic diagram



Detection for Vehicle Connector

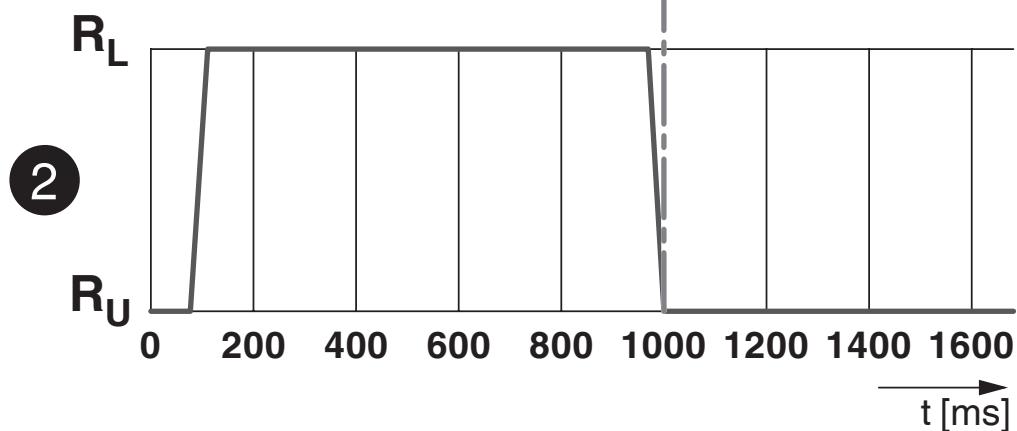
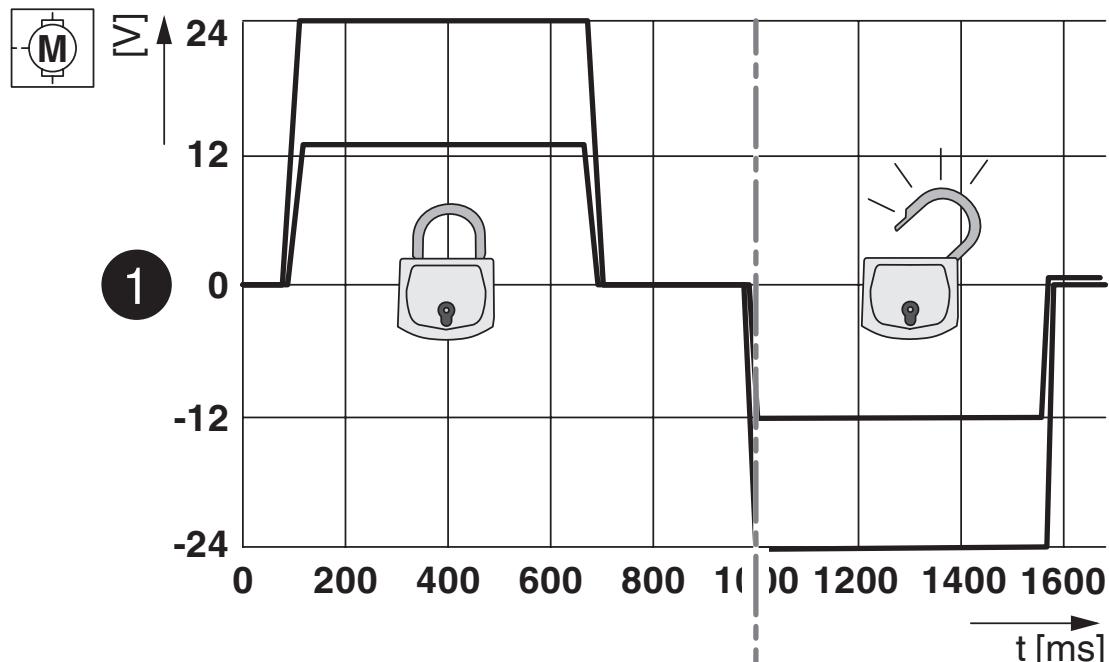
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Diagram



Locking states of the locking actuator

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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)

No substance above 0.1 wt%

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