

EV-T2MBIE24-1ACDC-INFRA - Vehicle Connector test adapter



1410506

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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, Single-core wires connected at one end, 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 (EVSE), 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	1410506
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	EM01
Product key	XWBACD
GTIN	4046356898942
Weight per piece (including packing)	3.937 kg
Weight per piece (excluding packing)	3.847 kg
Customs tariff number	85366990
Country of origin	DE

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Technical data

Product properties

Product type	Vehicle Connector test adapter
Product family	CHARX connect
Type	Accessories
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, 1-phase)

Type of charging current	AC single-phase
Charging current	20 A
Charging power	5 kW

Charging power and current (DC charging)

Type of charging current	DC
Charging current	125 A
Charging power	106.25 kW

Pin assignment (Power contacts)

Number	5 (L1, N, PE, DC+, DC-)
Rated voltage	250 V AC
	850 V DC
Rated current	125 A DC
	20 A AC

Pin assignment (Signal contacts)

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	22 V ... 26 V
Maximum voltage for locking detection	30 V
Typical motor current for locking	0.05 A
Reverse current of the motor	max. 0.5 A

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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)	-30 °C ... 50 °C
Cable length	0.5 m
Cable structure	4 x 0.5 mm ²
Bending radius	min. 15 mm
External cable diameter	1.60 mm ±0.02 mm
Cable weight	7.00 kg/km
Cable resistance	≤ 37.1 Ω/m
Single wire, color	BU/RD, BU/GN, BU/YE, BU/BN

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)

Cable/line

Cable length	2 m (AC cables)
	2 m (DC cables)
	0.5 m (Locking actuator cables)
Cable type	Single-core wires connected at one end
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

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
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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)

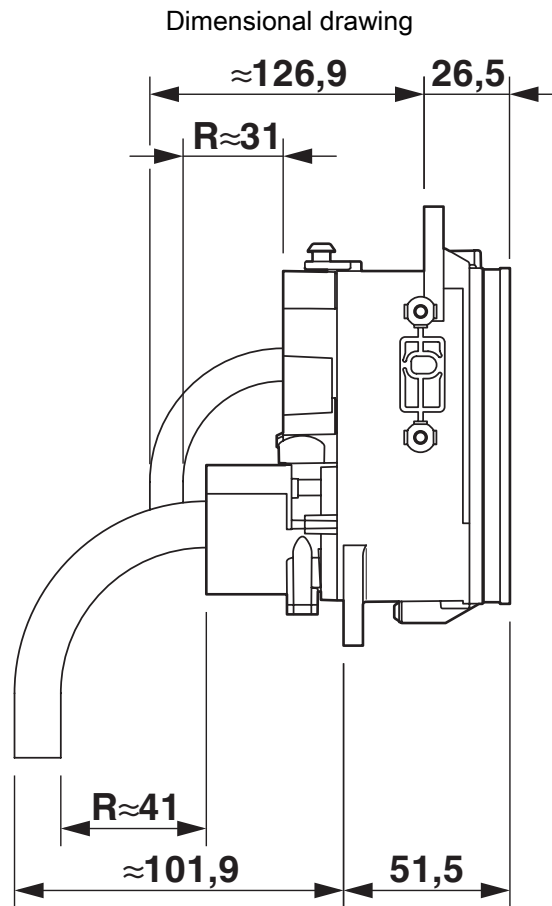
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Drawings



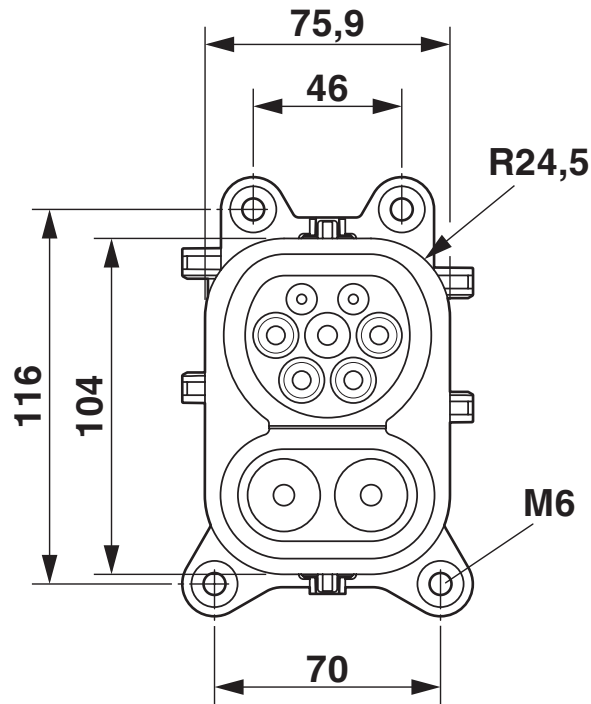
Dimensional drawing, side view

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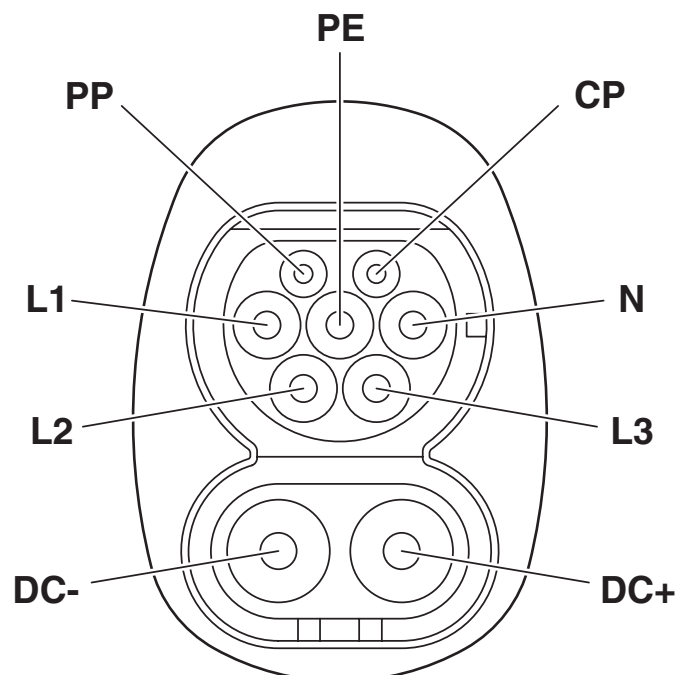
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Dimensional drawing



Dimensional drawing top view

Connection diagram



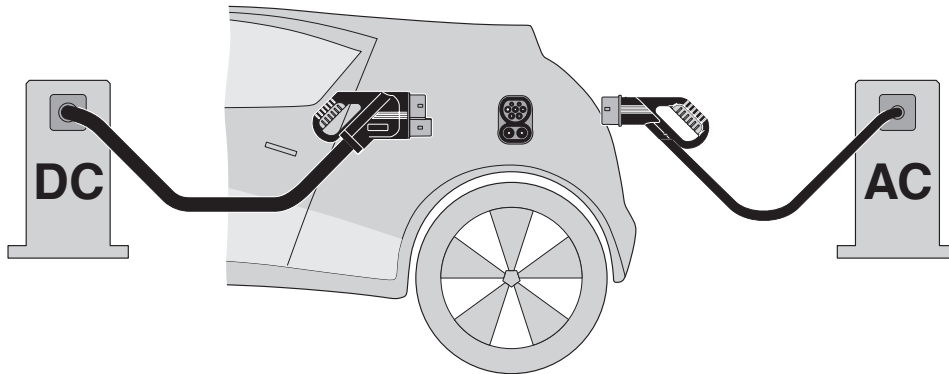
Pin assignment of vehicle charging inlets

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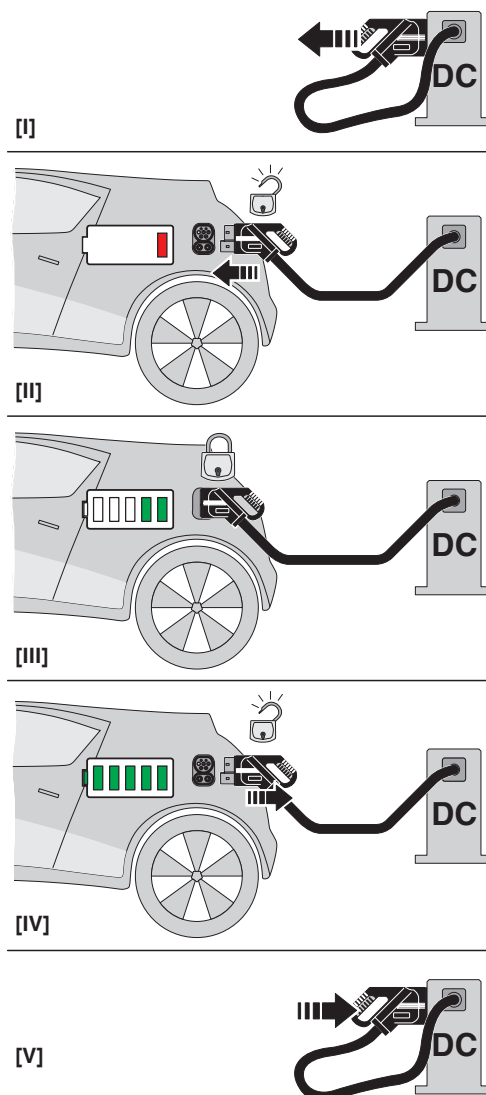
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Schematic diagram



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

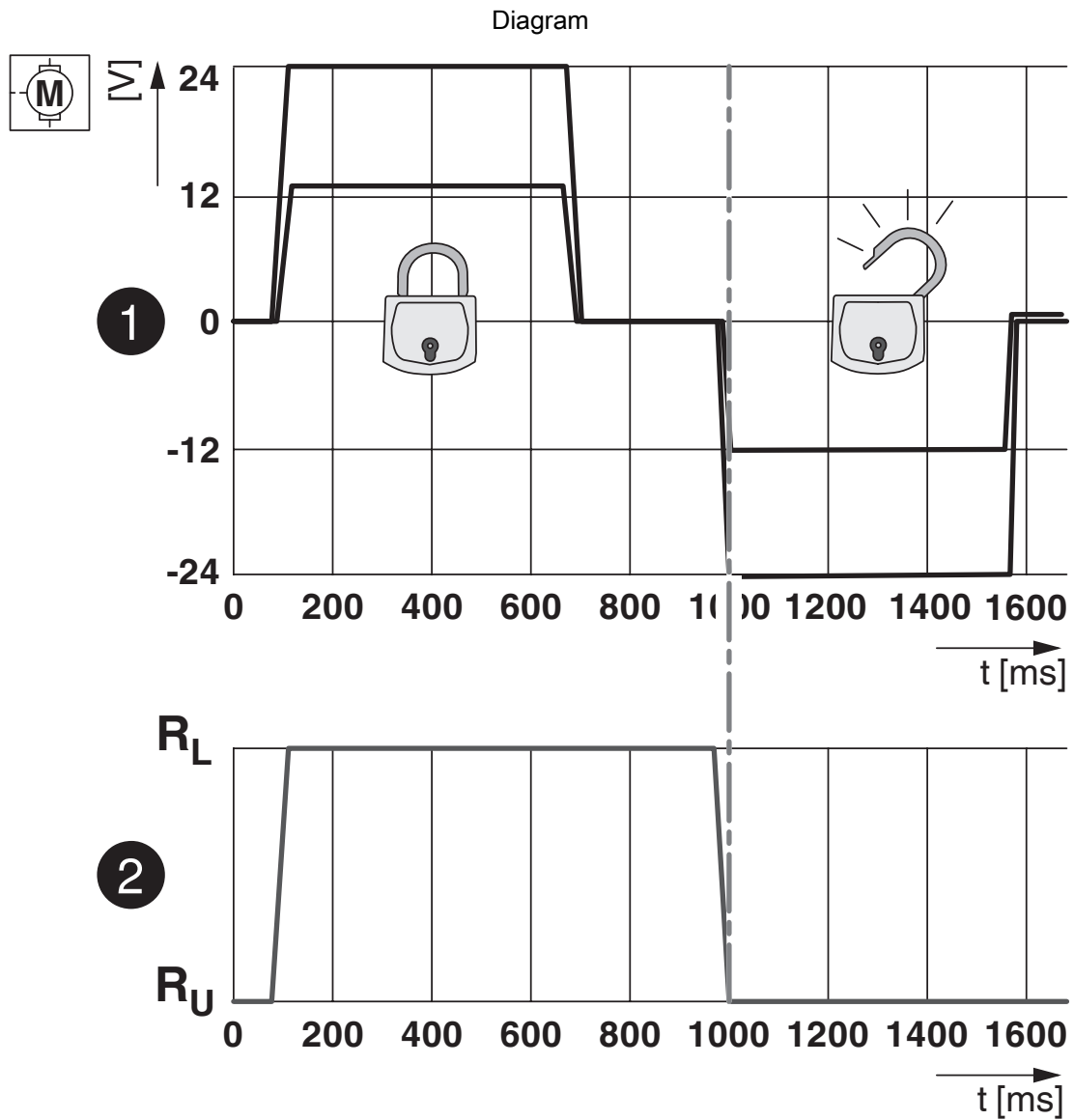


Detection for Vehicle Connector

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Locking states of the locking actuator

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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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