

Test accessories - EV-T2MBIE24-1ACDC-INFRA6,0 - 1623322

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Special Vehicle Inlet for charging station tests, CCS type 2, Combined Charging System, IEC 62196-3, 125 A / 850 V (DC), 20 A / 250 V (AC), 24 V Locking actuator, Single wires, Length: 6 m

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



Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 140278
GTIN	4055626140278
Custom tariff number	85366990
Note	Made to Order (non-returnable)

Technical data

Product definition

Product type	Special Vehicle Inlet for charging station tests
Standards/regulations	IEC 62196-3
Charging standard	CCS type 2
	Combined Charging System
Charging mode	Mode 2, 3, 4
Type of charging current	DC, AC 1-phase

Dimensions

Height	116 mm
Width	76 mm
Depth	94 mm
Bore dimensions	116 mm x 46 mm / 116 mm x 70 mm
Conductor length	6.00 m
Cable length of locking actuator	0.50 mm

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Dimensions

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
Type of conductor	Single wires

Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. altitude	5000 m (above sea level)
Degree of protection	IP44 (plugged in)
	IP55 (with protective cap)

Electrical properties

Maximum charging power	106 kVA
Number of phases	1
Number of power contacts	5 (L1, N, PE, DC+, DC-)
Rated current of power contacts	125 A DC
	20 A AC
Rated voltage for power contacts	250 V AC
	850 V DC
Number of signal contacts	2 (CP, PP)
Rated current for signal contacts	2 A
Rated voltage for signal contacts	30 V AC
Type of signal transmission	Pulse width modulation with modulated Powerline communication according to ISO/IEC 15118 / DIN SPEC 70121
Insulation resistance of neighboring contacts	> 5 kΩ
Temperature monitoring	2x Pt 1000

Mechanical properties

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

Mounting

Possible mounting positions	Front and rear mounting
Restrictions to mounting position	Only 0 to 90 degree frontal inclination possible, see figure
Mounting position of the locking actuator	Left-side
Mounting hole diameter	6.80 mm (ø)

Design

Design line	Generation 1
Housing color	black
Customer variations	On request

Material

Material	Plastic
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Material

Material surface of contacts	Ag
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Locking

Locking type	Locking in the inserted state with a locking mechanism
Locking voltage	24 V
Locking detection	available
Mechanical emergency release	available

Locking actuator

Typical power supply at the motor	24 V
Possible power supply range at the motor	22 V ... 26 V
Typical motor current for locking	0.05 A
Max. reverse current of the motor	0.5 A
Max. dwell time with reverse current	1000 ms
Recommended adaptation time	600 ms
Pause time after entry or exit path	3 ms
Maximum voltage for locking detection	30 V
Service life	> 10000 load cycles
Ambient temperature (operation)	-30 °C ... 50 °C
Length of cable	0.5 m

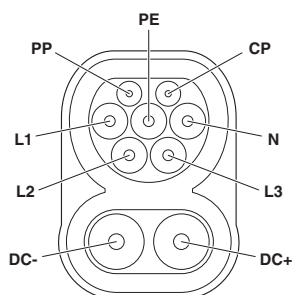
Temperature sensors

Type of sensor	Pt 1000
Standards/regulations	DIN EN 60751
Recommended measured current	1 mA (1 V at 0°C)
Tolerance at the sensor with the recommended measured current	±1K
Temperature range	-50 °C ... 130 °C
Temperature coefficient (TCR)	3850 ppm/K
Long-term stability (max. R0-Drift)	0.06 % (After 1000 hours at 130°C)
Shutdown temperature	90 °C

Drawings

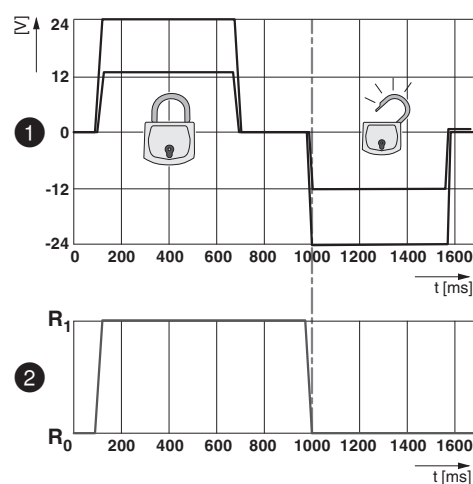
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Connection diagram



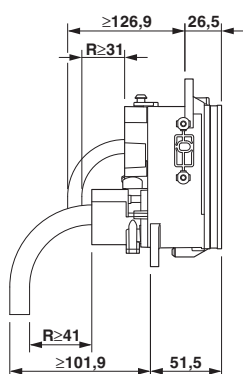
Pin assignment of Vehicle Inlet

Diagram



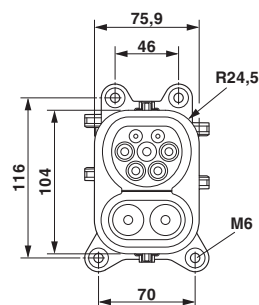
Locking states of Infrastructure Socket Outlet

Dimensional drawing



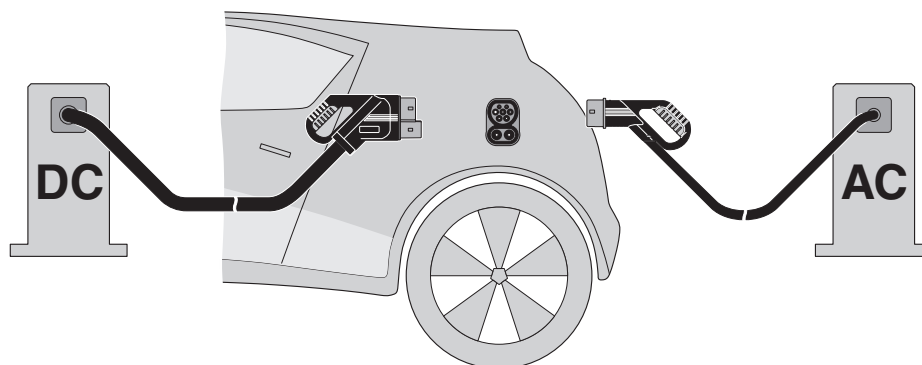
Dimensional drawing, side view

Dimensional drawing



Dimensional drawing top view

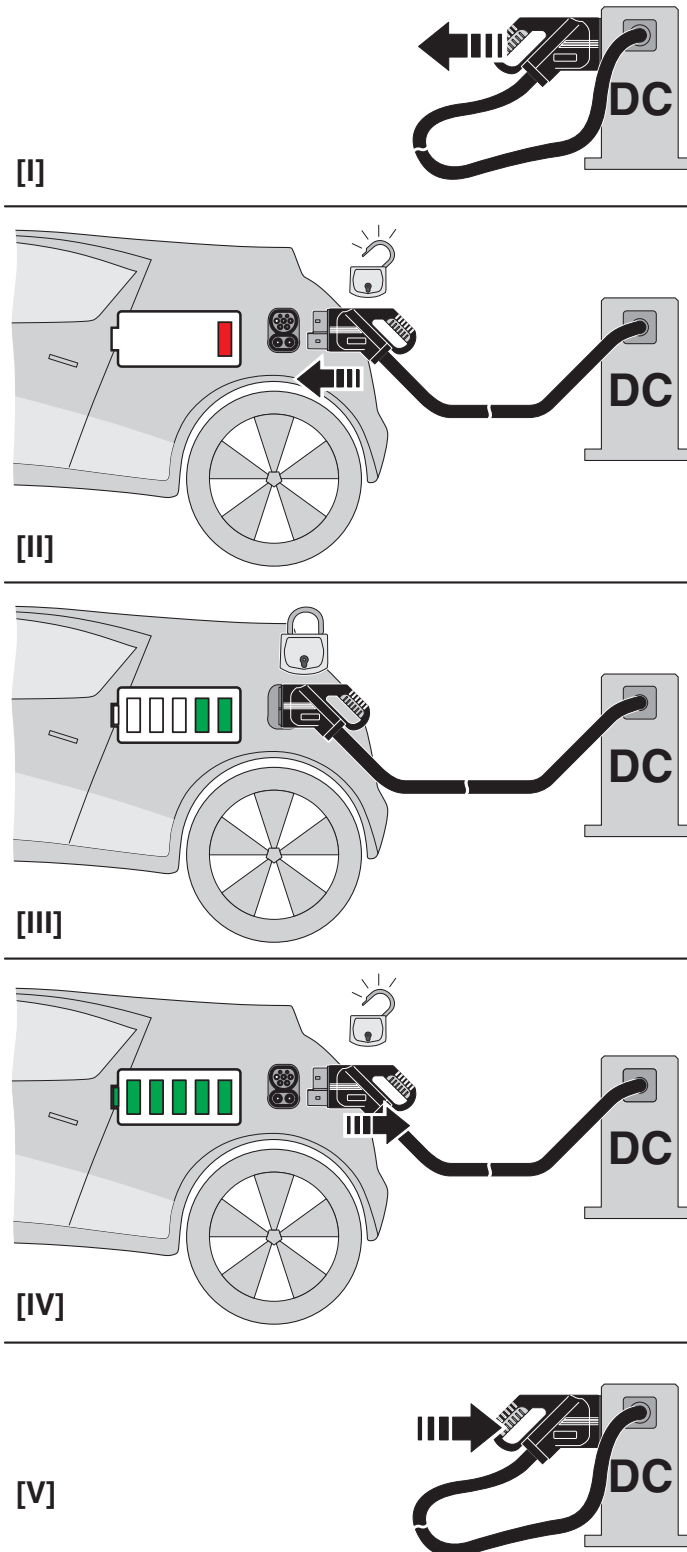
Schematic diagram



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.

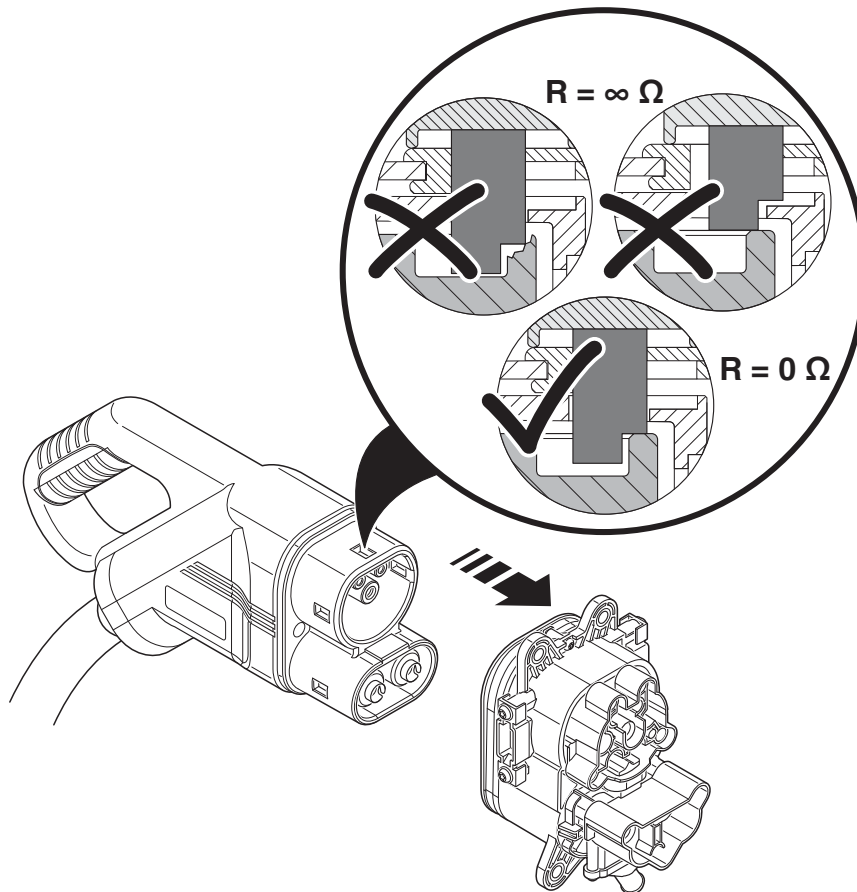
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Schematic diagram



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Schematic diagram



Detection for Vehicle Connector

Mouser Electronics

Authorized Distributor

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