CHARX T2HBI12-3AC32DC125-3,0M2 - Vehicle charging inlet

1358242

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CHARX connect universal, Vehicle charging inlet, for charging with alternating current (AC) and with direct current (DC), CCS type 2, IEC 62196-2, IEC 62196-3, 125 A / 1000 V (DC), 32 A / 480 V (AC), Single wires, length: 3 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, A protective cap is supplied as standard for the DC and AC 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 (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
- Integrated interlock during charging
- Manual emergency release of the locking actuator
- Protected and sealed against dirt and water with a high degree of protection

Commercial data

Item number	1358242
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWCAID
GTIN	4063151686918
Weight per piece (including packing)	6,258 g
Weight per piece (excluding packing)	6,258 g
Country of origin	PL

Technical data

Notes

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

Product properties

Product type	Vehicle charging inlet
Product family	CHARX connect universal
Application	for charging with alternating current (AC) and with direct current (DC)
	for installation in electric vehicles (EV)
Technology	Combined Charging System
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	> 200 MΩ
Coding	4.7 kΩ (between PE and PP)
Temperature measurement	DC contacts: 2x PT1000 (DIN EN 60751)
Temperature monitoring	AC contacts: PTC chain (DIN□EN□60738-1)
Type of charging current	AC 3-phase
Charging power	26 kW
Charging current	32 A
Type of charging current	DC
Charging power	125 kW
Charging current	125 A
Type of charging current	DC Boost Mode
Charging power	up to 250 kW (Boost Mode, depending on the ambient conditions. For detailed information, see the packing slip in the download area for this item.)
Charging current	up to 250 A (Boost Mode, depending on the ambient conditions. For detailed information, see the packing slip in the download area for this item.)

Power contact

Number	7 (L1, L2, L3, N, PE, DC+, DC-)
Rated voltage	480 V AC
	1000 V DC
Rated current	32 A AC
	125 A DC

Signal contact

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

Temperature sensors (PTC chain)

Sensor type	PTC chain
Standards/regulations	DIN□EN 60738-1
Attachment point	Sensor for the AC contacts
Measuring range_resistance	790.00 Ω ... 1420.00 Ω
Resistance	max. 1280 Ω ±5 K
Recommended measured current	≤ 1 mA (U_{max}= 16 V DC)
Ambient temperature	-40 °C ... 130 °C (Operation)

Temperature sensors (Pt 1000)

Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	2 sensors for the DC contacts

Locking actuator

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

Locking actuator

Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	right-side
Possible power supply range at the motor	9 V ... 16 V
Maximum voltage for locking detection	12 V
Typical motor current for locking	0.25 A
Reverse current of the motor	max. 1.5 A
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)	-40 °C ... 80 °C

Dimensions

Width	117.65 mm
Height	90 mm
Depth	117.65 mm

Material specifications

Color (Housing)	black (9005)

Color (Mating face)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver

Cable/line

Cable length	3 m
Cable type	Single wires
Single wire, cross section	35.00 mm²

Single-core wires for AC

Cable length	3 m
Cable structure	4 x 6 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	14.70 mm ±0.2 mm
Cable resistance	≤ 3.2 Ω/km

Single-core wires for DC

Cable length	3 m
Cable structure	2 x 35 mm²
Single wire, material	Silicone
Single wire, color	OG
External cable diameter	14.10 mm ±0.3 mm
Cable resistance	≤ 0.527 Ω/km

Single-core wire for PE

Cable length	3 m
Cable structure	1 x 25 mm²
Single wire, material	Silicone
Single wire, color	GN/YE
External cable diameter	8.60 mm ±0.1 mm
Cable resistance	≤ 0.743 Ω/km

Single-core wires for locking actuator

Cable length	1.5 m
Cable structure	4 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BU/RD, BU/GN, BU/YE, BU/BN
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

Single-core wires for PTC temperature sensors

Cable length	1 m
Cable structure	5 x 0,5 mm²
Single wire, material	PVC
Single wire, color	BN/GY

	BN/YE/GN
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

Single-core wires for Pt 1000 temperature sensors

Cable length	1 m
Cable structure	3 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BN
	GN
	YE
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

Single-core wires for communication

Cable length	1 m
Cable structure	2 x 0.5 mm²
Single wire, material	PVC
Single wire, color	BK
	WH
External cable diameter	1.60 mm ±0.20 mm
Cable resistance	≤ 37.1 Ω/m

Mechanical properties

Mechanical data

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

Environmental and real-life conditions

Ambient conditions

Degree of protection (Vehicle charging inlet)	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)
	IP67 (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

Mounting type	Front and rear mounting (0 to 90 degree frontal inclination possible)
Mounting hole diameter	6.70 mm (ø)
Fixing screws	M6
Screws included in the scope of delivery	none

Classifications

ECLASS

ECLASS-11.0	27144706
ECLASS-12.0	27144706
ECLASS-13.0	27144706

ETIM

ETIM 9.0	EC002898

UNSPSC

UNSPSC 21.0	39121800

Environmental product compliance

REACh SVHC	Lead 7439-92-1
	DOTE 15571-58-1
	Dechlorane Plus

China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer’s declaration available under “Downloads”

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