

1164299

https://www.phoenixcontact.com/us/products/1164299

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



CHARX connect modular, Infrastructure charging socket, square, Premium, with temperature sensors, with LED (common cathode connection), for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 4-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

Product description

Infrastructure charging socket for charging electric vehicles (EV) with alternating current (AC), compatible with type 2 Infrastructure Plugs, for installation at charging stations for E-Mobility (EVSE)

Your advantages

- · Protected against overheating with precise temperature measurement
- · Flexible mounting and easy maintenance with plug-in cables
- Available with your logo on request for consistent branding of your charging station
- · Waterproof and dirtproof due to fully molded contacts
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- · Uniform, space-saving installation space

Commercial data

Item number	1164299
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBADC
GTIN	4063151176662
Weight per piece (including packing)	441.9 g
Weight per piece (excluding packing)	441.9 g
Country of origin	DE



1164299

https://www.phoenixcontact.com/us/products/1164299

Set consists of

EV-T2M3SO-CAP - Protective cap

1202424

https://www.phoenixcontact.com/us/products/1202424



CHARX connect modular, Protective cap, circular, Accessories, for strain relief and touch protection, Type 2, IEC 62196-2



1164299

https://www.phoenixcontact.com/us/products/1164299

Technical data

Product properties

Design (Infrastructure charging socket)	square
Design (Protective cap)	circular
Product type	Infrastructure charging socket
Product family	CHARX connect modular
Application	for charging electric vehicles (EV) with alternating current (AC)
	compatible with infrastructure charging plugs
Туре	Premium
Design	with temperature sensors
	with LED (common cathode connection)
Affixed logo	PHOENIX CONTACT logo
Charging standard	Type 2
Charging mode	Mode 3, Case B

Electrical properties

Type of signal transmission	Pulse width modulation
Note on the connection method	Connection via spade connector, separable and reconnectable
Temperature monitoring	PTC system (DIN EN 60738-1)
Type of charging current	AC 3-phase
Charging power rating	22 kW
Charging power	max. 26.6 kW
Charging current	max. 32 A

Power contact

Number	5 (L1, L2, L3, N, PE)
Rated voltage	480 V AC
Rated current	max. 32 A

Signal contact

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

LED function

Application	to display the charging status
Position	in the frame of the protective cover
Connection type	common anode

Temperature sensors (PTC chain)

Sensor type	PTC chain
Standards/regulations	DIN□EN 60738-1
Diagnostics	Short circuit, cable break
Attachment point	Sensor for the AC contacts



1164299

https://www.phoenixcontact.com/us/products/1164299

Measuring range_resistance	800.00 Ω 300.00 kΩ
Resistance	max. 10 Ω
Recommended measured current	≤ 1 mA (U _{max} = 24 V DC)
Locking actuator	
Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	top center
Locking actuator	
Operating voltage	12 V
Note number of positions	4-pos.
Position of the locking actuator	top center
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 ²

Dimensions

Infrastructure charging socket

Dimensional drawing	5.5 11,3 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5 13,8 5.5
Width	75 mm
Height	91.71 mm
Depth	87.95 mm
Bore dimensions	



1164299

https://www.phoenixcontact.com/us/products/1164299

Dimensional drawing	0 60 R. 68
Width	60 mm
Height	60 mm
Protective cap	
Width	64 mm
Height	57 mm
Depth	24 mm
Material specifications	
Color (Housing)	black (9005)
Material (Housing)	Plastic
Material (Contact surface)	Silver
Cable/line	
Cable type	without single-core wires
Single wire, cross section	6.00 mm²
Single-core wires for locking actuator	
Cable length	0.5 m
Cable structure	4 x 0.5 mm ²
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	0.5 m
Cable structure	5 x 0,5 mm ²
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
Mechanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N



1164299

https://www.phoenixcontact.com/us/products/1164299

Environmental and real-life conditions

Ambient conditions

Degree of protection (Infrastructure charging socket)	IP44 (plugged in)
Degree of protection (Protective cover)	IP54 (see accessories)
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 62196-2

Mounting

Mounting type Infrastructure charging socket	Rear panel mounting (0 to 90 degree frontal inclination possible)
Mounting type Protective cover	Rear panel mounting (available separately)
Max. wall thickness	max. 50.00 mm (Rear panel mounting, normative maximum specification for infrastructure plug)
	max. 28.00 mm (Rear mounting, normative maximum specification for infrastructure plug when using protective cover 1405217)
Mounting hole diameter	7.00 mm (ø)
Fixing screws	M5 thread
Screws included in the scope of delivery	none



1164299

https://www.phoenixcontact.com/us/products/1164299

Classifications

UNSPSC 21.0

ECLASS

27144706
27144706
27144706
EC002898

39121800



1164299

https://www.phoenixcontact.com/us/products/1164299

Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

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