

EV-CC-AC1-M3-CC-SER-PCB-XC-25X - AC charging controller



1627742

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The EV-CC-AC1-M3-CC-SER-PCB charging controller as a PCB for charging electric vehicles on a 3-phase AC power grid according to IEC 61851-1, Mode 3. Optimized for charging stations with permanently mounted Vehicle Connector. All charging functions and comprehensive configuration settings are already integrated.

Commercial data

Item number	1627742
Packing unit	25 pc
Minimum order quantity	25 pc
Product key	XWBBAB
Catalog page	Page 65 (C-7-2019)
GTIN	4055626364476
Weight per piece (including packing)	167.18 g
Weight per piece (excluding packing)	167.18 g
Country of origin	DE

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Technical data

Product properties

Product type	AC charging controller
Product family	CHARX control basic
Application	AC charging controller for private and commercial applications (EU/CN)
Operating mode	Stand-Alone
	Client
Charging mode	Mode 3, Case C

System properties

Charging controllers

Number of charging points	1
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Electrical properties

Type of charging current	AC
Current consumption	< 1 W

Supply

Supply voltage	230 V
Supply voltage range	100 V AC ... 240 V AC (nominal voltage range)
Max. current consumption	40 mA
Nominal power consumption	< 1 W (No-load)
Frequency range	50 Hz ... 60 Hz

Input data

Digital

Number of digital inputs	5
Frequency range	50 Hz ... 60 Hz
Nominal power consumption	< 0.5 W (No-load)
Nominal current I_N	≤ 1 mA
Nominal input voltage U_N	12 V
Input voltage range U1	0 V ... 3 V (Off)
Input voltage range U2	9 V ... 15 V (On)

Output data

Digital

Output name	4 digital outputs
Connection technology	Screw connection
Maximum output voltage	30 V

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Maximum output current	0.5 A (Total current for all outputs; internally supplied)
	0.6 A (Per output; externally supplied)

Switching

Output name	Relay output C _{1,2}
Minimum switching capacity	1500 VA
Maximum switching voltage	250 V AC (External supply)
Max. switching current	6 A

Connection data

Conductor connection

Connection method	Screw connection
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

Interfaces

Interface	RS-485
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RS-485

Interface	RS-485 2-wire
Bus system	RS-485
Connection method	Screw connection
Number of interfaces	1
Transmission speed	9.6 kbps (Standard)
Transmission speed range	9.6 kbps ... 19.2 kbps (adjustable)
Data flow control/protocols	Modbus/RTU (slave)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP00
Ambient temperature (operation)	-35 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	30 % ... 95 %

Approvals

Conformity/Approvals

Conformance	CE-compliant
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Standards and regulations

Standards

Standards/regulations	IEC 61851-1
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Mounting

Mounting type	PCB mounting
Mounting position	any

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Classifications

ECLASS

ECLASS-11.0	27144703
ECLASS-12.0	27144703
ECLASS-13.0	27144703

ETIM

ETIM 9.0	EC002889
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UNSPSC

UNSPSC 21.0	39121800
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-10
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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Accessories

EV-RCM-C1-AC30-DC6 - Differential current monitoring

1622450

<https://www.phoenixcontact.com/us/products/1622450>



The residual current module is used for AC and DC residual current detection in AC charging points. The higher-level safety equipment (e.g., residual current circuit breaker) is protected against potential DC residual currents. A 1 or 2-channel product version is available.

EV-RCM-C2-AC30-DC6 - Differential current monitoring

1622451

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The residual current module is used for AC and DC residual current detection in AC charging points. The higher-level safety equipment (e.g., residual current circuit breaker) is protected against potential DC residual currents. A 1 or 2-channel product version is available.

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EV-T2G3C-3AC32A-5,0M6,0ESBK01 - AC charging cable

1627355

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CHARX connect comfort, AC charging cable, with vehicle charging connector and open cable end, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, with protective cap, Type 2, IEC 62196-2, 32 A / 480 V (AC), housing: black, gray, PHOENIX CONTACT logo, cable: 5 m, black, straight

EEM-EM357 - Measuring instrument

2908588

<https://www.phoenixcontact.com/us/products/2908588>



3-phase energy meter for active power measurement with direct measurement in grids of up to 500 V/80 A, with S0 output, with digital input and RS-485 interface, certified in accordance with the MID directive

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