EV-CC-AC1-M3-CBC-SER-PCB - AC charging controller

1622453

https://www.phoenixcontact.com/us/products/1622453

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The EV-CC-AC1-M3-CBC-SER-PCB charging controller as PCB is used for charging electric vehicles at 3-phase AC networks according to IEC 61851-1, Mode 3. All charging functions, comprehensive configuration settings as well as a locking controller are already integrated.

Commercial data

Item number	1622453
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBBAB
Catalog page	Page 64 (C-7-2019)
GTIN	4055626039770
Weight per piece (including packing)	234 g
Weight per piece (excluding packing)	234 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 B + C

System properties

Charging controllers

Number of charging points	1

Electrical properties

Type of charging current	AC
Current consumption	< 1 W
Locking release in the event of mains failure	Integrated release function of the locking actuator for disconnection of Infrastructure Plug and Infrastructure Socket Outlet

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
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

Switching

Output name	Relay output LO+/-
Minimum switching capacity	24 VA
Maximum switching voltage	12 V (Internal supply)
Max. switching current	2 A

Connection data

Conductor connection

Connection method	Screw connection
Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Interfaces

Interface	RS-485

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

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Conformance	CE-compliant

Standards and regulations

Standards

Standards/regulations	IEC 61851-1

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

UNSPSC

UNSPSC 21.0	39121800

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

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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.

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

https://www.phoenixcontact.com/us/products/1627355

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