

AC charging controller - EV-CC-AC1-M3-CC-SER-PCB - 1622460


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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.

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 039763
GTIN	4055626039763

Technical data

Product definition

Product type	AC charging controller for private and commercial applications (EU/CN)
Type	as uncoated PCB
Standards/regulations	IEC 61851-1
	GB/T 18487.1-2015
	SAE J1772
Charging mode	Mode 3, Case C
Conformance	CE-compliant

Dimensions

Height	108 mm
Width	120 mm
Depth	20.00 mm

Ambient conditions

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

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Inputs

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)

Switching outputs

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

Digital outputs

Control of additional functions	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)

Data interfaces

RS-485 interface	RS-485 2-wire
Bus system	RS-485
Number of interfaces	1
Connection method	Screw connection
Transmission speed	9.6 kbps (Standard)
	9.6 kbps ... 19.2 kbps (adjustable)
Protocol	Modbus/RTU (slave)

Connection data

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

Device supply

Supply voltage	230 V
Supply voltage range	100 V AC ... 240 V AC (nominal voltage range)
Max. current consumption	40 mA

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Device supply

Nominal power consumption	< 1 W (No-load)
Frequency range	50 Hz ... 60 Hz

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>