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

1628394

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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	1628394
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBBAB
Catalog page	Page 65 (C-7-2019)
GTIN	4055626448022
Weight per piece (including packing)	211.9 g
Weight per piece (excluding packing)	210 g
Country of origin	DE

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

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	0 V ... 3 V (Off)
	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

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

Conformance	CE-compliant

Standards and regulations

Standards

Standards/regulations	IEC 61851-1

Mounting

Mounting type	PCB mounting
Mounting position	any

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

REACh SVHC	Lead 7439-92-1

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer’s declaration available under “Downloads”

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