

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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 039770
GTIN	4055626039770

Technical data

Product definition

Type	as uncoated PCB
Application	AC charging controller for private and commercial applications (EU/CN)
Standards/regulations	IEC 61851-1
	GB/T 18487.1-2015
	SAE J1772
Charging mode	Mode 3, Case B + C
Number of supported charging points	1
Locking release in the event of mains failure	Integrated release function of the locking actuator for disconnection of Infrastructure Plug and Infrastructure Socket Outlet
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

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Ambient conditions

Permissible humidity (operation)	30 % ... 95 %
Degree of protection	IP00

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
Control of locking actuator	Relay output LO+/-
Minimum switching capacity	24 VA
Maximum switching voltage	12 V (Internal supply)
Max. switching current	2 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)

RS-485 data interfaces

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

Connection data

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

Device supply

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Device 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

Mounting

Mounting position	any
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	27144703
eCl@ss 11.0	27144703
eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27242700
eCl@ss 5.1	27242700
eCl@ss 6.0	27242200
eCl@ss 7.0	27242207
eCl@ss 8.0	27242207
eCl@ss 9.0	27144703

ETIM

ETIM 3.0	EC001505
ETIM 4.0	EC001599
ETIM 5.0	EC001413
ETIM 6.0	EC002889
ETIM 7.0	EC002889

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121535
UNSPSC 11	39121535
UNSPSC 12.01	39121535
UNSPSC 13.2	39121801
UNSPSC 18.0	39121801

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Classifications

UNSPSC

UNSPSC 19.0	39121801
UNSPSC 20.0	39121801
UNSPSC 21.0	39121801

Accessories

Accessories

AC charging cable

AC charging cable - EV-T2G3C-3AC32A-5,0M6,0ESBK01 - 1627355



AC charging cable with vehicle charging connector and open cable end, with protective cap, Housing color black-gray, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, for installation at charging stations for electromobility (EVSE), Type 2, IEC 62196-2, 32 A / 480 V (AC), C-Line, "PHOENIX CONTACT" logo, cable: 5 m, black, straight

Infrastructure socket outlet

Socket Outlet - EV-T2M3SE12-3AC32A-0,7M6,0E10 - 1405214



Socket Outlet, rear protective cover screw connection, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: 0.7 m, Locking actuator: 12 V, 4-position, Rear panel mounting, Generation 1, "PHOENIX CONTACT" logo

Power meter

Measuring instrument - EEM-EM357 - 2908588



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

Residual current monitoring module

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

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Accessories

Differential current monitoring - EV-RCM-C2-AC30-DC6 - 1622451



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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