

# 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

<b>package_quantity</b>	1
<b>GTIN</b>	4055626039770

## Technical data

### Product definition

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

### Dimensions

<b>Height</b>	108 mm
<b>Width</b>	120 mm
<b>Depth</b>	20.00 mm

### Ambient conditions

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

### Inputs

<b>Number of digital inputs</b>	5
<b>Frequency range</b>	50 Hz ... 60 Hz

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### Inputs

Nominal power consumption	< 0.5 W (No-load)
Nominal current $I_N$	$\leq 1$ 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)
Maximum output current	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)
Transmission speed range	9.6 kbps ... 19.2 kbps (adjustable)
Data flow control/protocols	Modbus/RTU (slave)

### Connection data

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

### Device supply

Supply voltage	230 V
Supply voltage range	100 V AC ... 240 V AC (nominal voltage range)

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## Technical data

### Device supply

Max. current consumption	40 mA
Nominal power consumption	< 1 W (No-load)
Frequency range	50 Hz ... 60 Hz

## Classifications

### eCl@ss

eCl@ss 4.0	27210902
eCl@ss 4.1	27371105
eCl@ss 5.0	27371801
eCl@ss 5.1	27371810
eCl@ss 6.0	27371810
eCl@ss 7.0	27371810
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

### UNSPSC

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

## Accessories

### Evaluation unit

EV-RCM-C1-AC30-DC6 - 1622450



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## Accessories

EV-RCM-C2-AC30-DC6 - 1622451



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## Infrastructure socket outlet

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



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## AC charging cable

EV-T2G3C-3AC32A-5,0M6,0ESBK01 - 1627355



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## Parameterization memory

SD-FLASH-2GB-EV-EMOB - 1624092



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## License

USB-DONGLE-EV-EMOB - 1627632



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## Accessories

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## Drawings

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