

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.

Key commercial data

package_quantity	1
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
Standards/regulations	GB/T 18487.1-2015
Standards/regulations	SAE J1772
Charging mode	Mode 3, Case C
Type of charging current	AC
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

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

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Inputs

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)
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 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
Connection method	Screw connection

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

Classifications

eCl@ss

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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



EV-RCM-C2-AC30-DC6 - 1622451



AC charging cable

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Accessories

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



Parameterization memory

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



License

USB-DONGLE-EV-EMOB - 1627632



Drawings

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