AC charging controller - EV-CC-AC1-M3-CBC-SER-PCB-MSTB - 1627353

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The EV-CC-AC1-M3-CBC-SER-PCB-MSTB charging controller as a PCB for charging electric vehicles according to IEC 61851-1, Mode 3, Case B (Socket Outlet) or C (Vehicle Connector). Connection via PCB connector on header.

Key commercial data

package_quantity	1
GTIN	4055626342986

Technical data

Product definition

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

Dimensions

Height	108 mm
Width	120 mm
Depth	34.00 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

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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
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	Push-in 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
Number of interfaces	1
Connection method	Pluggable spring-cage terminal blocks
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 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Connection method	Pluggable spring-cage terminal blocks

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

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

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

Infrastructure socket outlet

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

AC charging cable

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

Parameterization memory

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

License

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Accessories

USB-DONGLE-EV-EMOB - 1627632

Drawings

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