AC charging controller - EV-CC-AC1-M3-CC-SER-HS-MSTB - 1081335

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The EV-CC-AC1-M3-CBC-SER-HS-MSTB charging controller with housing for DIN rail mounting and plug-in connection technology is used to charge electric vehicles on the 3-phase AC power grid in accordance with IEC 61851-1, mode 3. Optimized for charging stations with permanently mounted vehicle charging connector. All charging functions and comprehensive configuration settings are already integrated.

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 807652
GTIN	4055626807652

Technical data

Product definition

Type	in housing
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 C
Number of supported charging points	1
Note on the connection method	with MSTB connection
Conformance	CE-compliant

Dimensions

Height	128 mm
Width	124 mm
Depth	67.00 mm

Ambient conditions

Ambient temperature (operation)	-35 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	30 % ... 95 %

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Degree of protection	IP20

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

Digital outputs

Control of additional functions	4 digital outputs
Connection technology	Spring-cage 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	Pluggable spring-cage terminal blocks
Transmission speed	9.6 kbps (Standard)
	9.6 kbps ... 19.2 kbps (adjustable)
Data flow control/protocols	Modbus/RTU (slave)

Connection data

Connection method	Plug-in push-in spring-cage connection
Conductor cross section flexible	0.2 mm² ... 1.5 mm²
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 16

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

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Mounting

Mounting position	any

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 9.0	27144703

ETIM

ETIM 6.0	EC002889
ETIM 7.0	EC002889

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

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

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Accessories

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.

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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