# EV-CC-AC1-M3-CC-SER-HS - AC charging controller

1622459

https://www.phoenixcontact.com/us/products/1622459

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The EV-CC-AC1-M3-CBC-SER-HS charging controller with housing for DIN rail mounting is used for charging electric vehicles at 3-phase AC networks 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.

## Commercial data

| | |
|---|---|
| Item number | 1622459 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | EM01 |
| Product key | XWBRAA |
| GTIN | 4055626040615 |
| Weight per piece (including packing) | 410 g |
| Weight per piece (excluding packing) | 410 g |
| Customs tariff number | 85371098 |
| Country of origin | DE |

# Technical data

## Product properties

| | |
|---|---|
| Product type | AC charging controller |
| Product family | CHARX control basic |
| Charging mode | Mode 3, Case C |
| Operating mode | Stand-Alone |
| | Client |
| Modem for communication present | no |
| Number of charging points | 1 |

## Electrical properties

| | |
|---|---|
| Type of charging current | AC |

## Input data

### Digital

| | |
|---|---|
| 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) |

## Output data

### Digital

| | |
|---|---|
| Output name | 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) |

### Switching

| | |
|---|---|
| Output name | Relay output $C_{1.2}$ |
| Minimum switching power | 1500 VA |
| Maximum switching voltage | 250 V AC (External supply) |
| Max. switching current | 6 A |

## Connection data

| | |
|---|---|
| Conductor cross-section rigid | 0.2 mm² ... 4 mm² |
| Conductor cross-section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section AWG | 24 ... 12 |

## Interfaces

| | |
|---|---|
| Interface | RS-485 |

RS-485

| | |
|---|---|
| Interface | RS-485 2-wire |
| Bus system | RS-485 |
| Connection method | Screw connection |
| Number of interfaces | 1 |
| Transmission speed range | 9.6 kbps ... 19.2 kbps (adjustable) |

## Environmental and real-life conditions

Ambient conditions

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

## Standards and regulations

Standards

| | |
|---|---|
| Standards/regulations | IEC 61851-1 |

## Mounting

| | |
|---|---|
| Mounting type | DIN rail mounting |
| Mounting position | any |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27144703 |
| ECLASS-15.0 | 27144703 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002889 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121800 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-10 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7) |

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