

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

1622452

<https://www.phoenixcontact.com/us/products/1622452>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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. All charging functions, comprehensive configuration settings as well as a locking controller are already integrated.

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1622452 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | EM01 |
| Product key | XWBRAA |
| GTIN | 4055626039756 |
| Weight per piece (including packing) | 390 g |
| Weight per piece (excluding packing) | 390 g |
| Customs tariff number | 85371098 |
| Country of origin | DE |

Technical data

Product properties

| | |
|---|---|
| Product type | AC charging controller |
| Product family | CHARX control basic |
| Application | AC charging controller for private and commercial applications (EU/CN) |
| Operating mode | Stand-Alone |
| | Client |
| Locking release in the event of mains failure | Integrated release function of the locking actuator for disconnection of Infrastructure Plug and Infrastructure Socket Outlet |
| Number of charging points | 1 |
| Charging mode | Mode 3, Case B + C |

System properties

Charging controllers

| | |
|---------------------------|---|
| Number of charging points | 1 |
|---------------------------|---|

Electrical properties

| | |
|---|---|
| Type of charging current | AC |
| Current consumption | < 1 W |
| Locking release in the event of mains failure | Integrated release function of the locking actuator for disconnection of Infrastructure Plug and Infrastructure Socket Outlet |

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 |

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

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

1622452

<https://www.phoenixcontact.com/us/products/1622452>



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 |

Switching

| | |
|---------------------------|------------------------|
| Output name | Relay output LO+/- |
| Minimum switching power | 24 VA |
| Maximum switching voltage | 12 V (Internal supply) |
| Max. switching current | 2 A |

Connection data

Conductor connection

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| 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 | 9.6 kbps (Standard) |
| Transmission speed range | 9.6 kbps ... 19.2 kbps (adjustable) |
| Data flow control/protocols | Modbus/RTU (slave) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -35 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 30 % ... 95 % |

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

1622452

<https://www.phoenixcontact.com/us/products/1622452>



Approvals

Conformity/Approvals

| | |
|-------------|--------------|
| Conformance | CE-compliant |
|-------------|--------------|

Standards and regulations

Standards

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

Mounting

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

Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002889 |
|----------|----------|

UNSPSC

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

Environmental product compliance

EU RoHS

| | |
|---|----------------|
| Fulfills EU RoHS substance requirements | Not applicable |
| Exemption | 7(a), 7(c)-l |

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

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA

586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com