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EV charge control is used to charge electrical vehicles on the 3-phase AC mains power supply according to IEC 61851-1 Mode 3. All necessary control functions are integrated. Additional functions are available for various charging applications.



Key Commercial Data

| Packing unit | 1 pc |
|--------------|-----------------|
| GTIN | 4 046356 681032 |
| GTIN | 4046356681032 |

Technical data

Product definition

| Туре | in housing |
|---|--|
| Application | AC charging controller for commercial applications (EU) |
| Standards/regulations | IEC 61851-1 |
| Charging standard | Type 2 |
| Charging mode | Mode 3, Case B + C |
| Number of supported charging points | 1 |
| Locking release in the event of mains failure | With EM-EV-CLR-12V locking release module (Order No. 2903246) as an option |
| Conformance | CE-compliant |

Dimensions

| Height | 90 mm |
|--------|----------|
| Width | 71.6 mm |
| Depth | 61.00 mm |

Ambient conditions

| Ambient temperature (operation) | -25 °C 60 °C |
|---|----------------------------|
| Ambient temperature (storage/transport) | -40 °C 85 °C |
| Permissible humidity (operation) | 30 % 95 % (non-condensing) |



Technical data

Ambient conditions Degree of protection

| Inputs | |
|--------------------------------------|----------------|
| Number of digital inputs | 4 |
| Frequency range | 50 Hz 60 Hz |
| Nominal current I _N | ≤ 8 mA |
| Nominal input voltage U _N | 24 V |
| Input voltage range U1 | -3 V 5 V (Off) |

15 V ... 30 V (On)

IP20

Switching outputs

Input voltage range U2

| 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 | 2 A |
| Control of locking actuator | Relay output R _{1,3} and R _{2,4} |
| Minimum switching capacity | 180 VA |
| Maximum switching voltage | 30 V AC/DC (External supply) |
| Max. switching current | 2 A |

Digital outputs

| Control of additional switching functions | Relay output V _{1.2} |
|---|--|
| Maximum switching voltage | 250 V AC |
| Max. switching current | 2 A |
| Control of additional functions | 4 digital outputs |
| Connection technology | Screw connection |
| Maximum output voltage | 30 V |
| Maximum output current | 0.2 A (Total current for all outputs; internally supplied) |
| Maximum output current per channel | 0.6 A (Per output; externally supplied) |

RS-485 data interfaces

| Number of interfaces | 1 |
|-----------------------------|---------------------------------|
| Bus system | RS-485 |
| Connection method | Screw connection |
| Number of supported devices | 1 |
| Transmission speed | 9.6 kbps (Standard) |
| | 2.4 kbps 19.2 kbps (adjustable) |
| Data flow control/protocols | Modbus/RTU (slave) |

Ethernet data interfaces

| Number of interfaces | 1 |
|----------------------|-----------|
| Bus system | RJ45 |
| Connection method | RJ45 jack |



Technical data

Ethernet data interfaces

| Transmission speed | 10/100 Mbps |
|---------------------|---|
| Transmission length | max. 100 m (with shielded, twisted-pair data cable) |
| Protocols supported | Modbus/TCP |

Connection data

| Connection method | Screw connection |
|----------------------------------|------------------|
| Conductor cross section flexible | 0.2 mm² 2.5 mm² |
| Conductor cross section solid | 0.2 mm² 4 mm² |
| Conductor cross section AWG | 24 12 |

Device supply

| Supply voltage | 230 V |
|---------------------------|---|
| Supply voltage range | 110 V AC 240 V AC (nominal voltage range) |
| | 95 V AC 264 V AC |
| Max. current consumption | 40 mA |
| Nominal power consumption | < 1 W (No-load) |
| Frequency range | 45 Hz 65 Hz |

EMC data

| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
|-------------------------------|--|
| Noise emission | EN 61000-6-3 |
| Noise immunity | EN 61000-6-2 |
| Low Voltage Directive | Conformance with LV directive 2006/95/EC |
| Housing | DIN 43880 |

Mounting

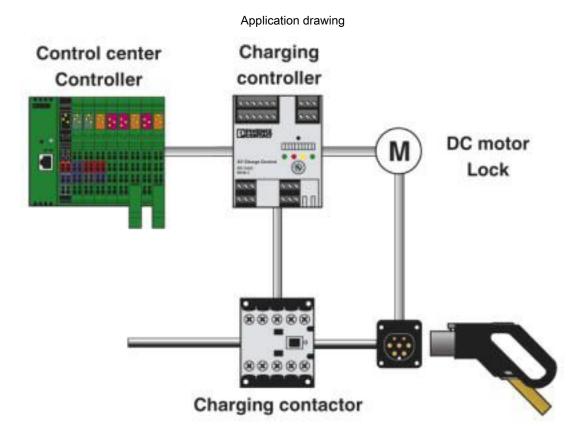
| Mounting position | any |
|-------------------|-----|

Environmental Product Compliance

| China RoHS | Environmentally Friendly Use Period = 50 years |
|------------|---|
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

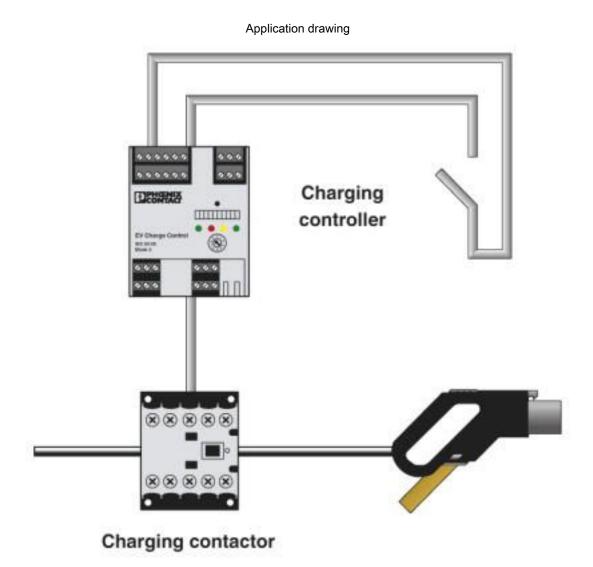
Drawings





EV Charge Control interacting with a central controller





Simple charging point with permanently connected cable

Classifications

eCl@ss

| eCl@ss 10.0.1 | 27144703 |
|---------------|----------|
| eCl@ss 4.0 | 27210900 |
| eCl@ss 4.1 | 27371100 |
| eCl@ss 5.0 | 27242700 |
| eCl@ss 5.1 | 27242700 |
| eCl@ss 6.0 | 27242200 |
| eCl@ss 7.0 | 27242207 |
| eCl@ss 8.0 | 27242207 |
| eCl@ss 9.0 | 27144703 |



Classifications

ETIM

| ETIM 3.0 | EC001505 |
|----------|----------|
| ETIM 4.0 | EC001599 |
| ETIM 5.0 | EC001413 |
| ETIM 6.0 | EC002889 |
| ETIM 7.0 | EC002889 |

UNSPSC

| UNSPSC 6.01 | 30211916 |
|---------------|----------|
| UNSPSC 7.0901 | 39121535 |
| UNSPSC 11 | 39121535 |
| UNSPSC 12.01 | 39121535 |
| UNSPSC 13.2 | 39121801 |
| UNSPSC 18.0 | 39121801 |
| UNSPSC 19.0 | 39121801 |
| UNSPSC 20.0 | 39121801 |
| UNSPSC 21.0 | 39121801 |

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

Infrastructure socket outlet

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



Socket Outlet, rear protective cover screw connection, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: 0.7 m, Locking actuator: 12 V, 4-position, Rear panel mounting, Generation 1, "PHOENIX CONTACT" logo

Parameterization memory



Accessories

Program / configuration memory - SD-FLASH-2GB-EV-EMOB - 1624092



Program and configuration memory for storing the application program and other files in the file system of the PLC, plug-in, 2 GB with license key for the function block libraries for E-Mobility

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

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.

Voltage monitoring relay

Voltage monitoring device - EM-EV-CLR-12V - 2903246



The EV Charge Lock Release monitors the 12 V operating voltage of the electrically driven plug locking actuator, routes locking and unlocking signals, and sends an unlocking pulse to the actuator when the operating voltage fails.



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