

EV-RCM-6DC-WAT-X10 - Differential current monitoring

1309695

<https://www.phoenixcontact.com/us/products/1309695>

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CHARX control modular, the residual current monitoring module is used for AC and DC residual current detection in AC charging points. The higher-level safety equipment (e.g., residual current device) is protected against potential DC residual currents.

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1309695 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | EM01 |
| Product key | XWBBFK |
| GTIN | 4063151560867 |
| Weight per piece (including packing) | 46.4 g |
| Weight per piece (excluding packing) | 46.4 g |
| Customs tariff number | 85437090 |
| Country of origin | CN |

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Technical data

Product properties

| | |
|--------------------------|---|
| Product type | Residual current monitoring module |
| Product family | CHARX control modular |
| Application | Residual current monitoring module for detecting AC and DC residual voltages in 50/60 Hz AC installations |
| Type | 1-channel |
| Manufacturer | Western Automation |
| Manufacturer Designation | RCM14-03 |
| Charging standard | Type 2 |
| Charging mode | Mode 3 |

System properties

Charging controllers

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

Electrical properties

| | |
|--------------------------|------------|
| Type of charging current | AC |
| Power consumption | min. 60 mW |

Measuring current transducer

| | |
|----------------------------|-------|
| Diameter of measuring coil | 14 mm |
|----------------------------|-------|

Measuring range: Residual current

| | |
|---------------------------------|-----------------|
| Residual current $I_{\Delta n}$ | 30 mA (AC) |
| | 6 mA (DC) |
| Rated current I_n | 100 A (1-phase) |
| | 40 A (3-phase) |

Supply

| | |
|---------------------------|---|
| Supply voltage range | 10.8 V DC ... 13.2 V DC (nominal voltage range) |
| Nominal power consumption | 60 mW |
| Frequency range | 50 Hz ... 60 Hz |

Connection data

Conductor connection

| | |
|-----------------------------|------------------|
| Connection method | Pin strip 4-pos. |
| Conductor cross section AWG | 26 |

Interfaces

| | |
|----------------------|----------------|
| Number of interfaces | 2 (Error/Test) |
|----------------------|----------------|

Dimensions

| | |
|-------|---------|
| Width | 60.7 mm |
|-------|---------|

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| | |
|--------|----------|
| Height | 33.6 mm |
| Depth | 32.50 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 85 °C |

Approvals

Conformity/Approvals

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

Standards and regulations

Standards

| | |
|-----------------------|-----------|
| Standards/regulations | IEC 62955 |
|-----------------------|-----------|

Mounting

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

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27144703 |
| ECLASS-12.0 | 27144703 |
| ECLASS-13.0 | 27144703 |

ETIM

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

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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Accessories

CHARX SEC-1000 - AC charging controller

1139034

<https://www.phoenixcontact.com/us/products/1139034>



CHARX control modular, AC charging controller, IEC 61851-1, operating mode: Stand-Alone, Client, interface: CHARX control modular system bus, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

CHARX SEC-3000 - AC charging controller

1139022

<https://www.phoenixcontact.com/us/products/1139022>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2 x), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

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CHARX SEC-3050 - AC charging controller

1139018

<https://www.phoenixcontact.com/us/products/1139018>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, ISO 15118, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2x), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

CHARX SEC-3100 - AC charging controller

1139012

<https://www.phoenixcontact.com/us/products/1139012>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2 x), Cellular communication (4G/2G), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

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CHARX SEC-3150 - AC charging controller

1138965

<https://www.phoenixcontact.com/us/products/1138965>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, ISO 15118, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2x), Cellular communication (4G/2G), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

CHARX SEC JST-RCM-CBL - Cable set

1360462

<https://www.phoenixcontact.com/us/products/1360462>



CHARX control modular, Cable set, 4-pos., with plug-in contact at one end, For connecting the EV-RCM-6DC-WAT residual current monitor, item no.: 1309697 and CHARX RFID/NFC-PCB, item no.: 1391227 to the modules of the CHARX control modular charging controller family, length: 0.4 m

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