EV-RCM-C1-AC30-DC6 - Differential current monitoring

1622450

https://www.phoenixcontact.com/us/products/1622450

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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.

Commercial data

Item number	1622450
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBBGA
Catalog page	Page 67 (C-7-2019)
GTIN	4055626039794
Weight per piece (including packing)	359.9 g
Weight per piece (excluding packing)	322.2 g
Customs tariff number	85362010
Country of origin	DE

Technical data

Product properties

Product type	Residual current monitoring module
Product family	CHARX control basic
Application	Residual current monitoring module (RCM) for AC charging controllers for private applications (EU/CN)
Type	1-channel
Operating elements	Test/reset button; 2 status LEDs
Charging standard	Type 2
Charging mode	Mode 3

System properties

Charging controllers

Number of charging points	1

Electrical properties

Type of charging current	AC 3-phase
Current consumption	< 1 W
Power consumption	< 5 VA
Reload function	3 switch-on attempts at intervals of 15 min.

Measuring current transducer

Connection method	Connector
Supply	via RCM module
Diameter of measuring coil	15 mm

Measuring range: Residual current

Rated frequency f_n	≤ 2000 Hz
Nominal differential current	± 300 mA (Peak)
Measuring range	50 A (45 Hz ... 50 Hz)
Residual current $I_{\Delta n}$	30 mA
	6 mA
Rated current I_n	32 A
Tripping time for $I_{\Delta n}$	< 180 ms
Response time for 2 x $I_{\Delta n}$	< 70 ms
Tripping time for 5x$I_{\Delta n}$	< 20 ms
Tripping time for I_N	< 500 ms

Supply

Supply voltage range	100 V AC ... 240 V AC (nominal voltage range)
Max. current consumption	22 mA
Nominal power consumption	< 0.5 W (No-load)
Frequency range	45 Hz ... 60 Hz

Input data

Digital

Description of the input	Plug-in; front

Output data

Switching

Output name	Alarm relay 1 $I_{\Delta n}$: DC residual currents
	Alarm relay 2 $I_{\Delta n}$: AC residual currents
Maximum switching voltage	250 V
Max. switching current	5 A (1 N/O contact each)
Number of contacts as N/O contacts	1
Note regarding the switch contact	Quiescent current
Switching cycles	10000

Connection data

Conductor connection

Connection method	Spring-cage connection
Conductor cross section rigid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 14

Interfaces

Others

Number of interfaces	1 (Measuring transducer)
Transmission length	max. 100 m (with shielded, twisted-pair data cable)
Number of interfaces	2 (Error/Reset)

Dimensions

Width	36 mm
Height	90 mm
Depth	70.50 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (Terminal blocks)
	IP30 (Inserts)
Ambient temperature (operation)	-25 °C ... 80 °C
Climatic class	according to IEC 60271/-1/-2/-3

Approvals

Conformity/Approvals

Conformance	CE-compliant

Standards and regulations

Standards

Standards/regulations	IEC 61851-1

Mounting

Mounting position	any

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002889

UNSPSC

UNSPSC 21.0	39121800

Environmental product compliance

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%

Accessories

EM-CP-PP-ETH - AC charging controller

2902802

https://www.phoenixcontact.com/us/products/2902802

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.

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

1622452

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

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

1622453

https://www.phoenixcontact.com/us/products/1622453

The EV-CC-AC1-M3-CBC-SER-PCB charging controller as PCB 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.

EV-CC-AC1-M3-CBC-SER-PCB-XC-25 - AC charging controller

1627743

https://www.phoenixcontact.com/us/products/1627743

The EV-CC-AC1-M3-CBC-SER-PCB charging controller as PCB 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.

EV-CC-AC1-M3-CBC-SER-PCB-MSTB - AC charging controller

1627353

https://www.phoenixcontact.com/us/products/1627353

The EV-CC-AC1-M3-CBC-SER-PCB-MSTB charging controller as a PCB for charging electric vehicles according to IEC 61851-1, Mode 3, Case B (Socket Outlet) or C (Vehicle Connector). Connection via PCB connector on header.

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

1622459

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

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.

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EV-CC-AC1-M3-CC-SER-PCB - AC charging controller

1622460

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The EV-CC-AC1-M3-CC-SER-PCB charging controller as a PCB for charging electric vehicles on a 3-phase AC power grid 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.

EV-CC-AC1-M3-CC-SER-PCB-XC-25X - AC charging controller

1627742

https://www.phoenixcontact.com/us/products/1627742

The EV-CC-AC1-M3-CC-SER-PCB charging controller as a PCB for charging electric vehicles on a 3-phase AC power grid 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.

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EV-CC-AC1-M3-CC-SER-PCB-MSTB - AC charging controller

1627367

https://www.phoenixcontact.com/us/products/1627367

The EV-CC-AC1-M3-CC-SER-PCB-MSTB charging controller as a PCB for charging electric vehicles according to IEC 61851-1, Mode 3, optimized for charging stations with permanently mounted Vehicle Connector. Connection via PCB connector on header.

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