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

1622450

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

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 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
Product key	XWBRYA
GTIN	4055626039794
Weight per piece (including packing)	359.9 g
Weight per piece (excluding packing)	190 g
Customs tariff number	85362010
Country of origin	DE

Technical data

Product properties

Product type	Residual current monitoring module
Product family	CHARX control basic
Type	1-channel
Charging standard	Type 2
Charging mode	Mode 3
Number of charging points	1

Electrical properties

Type of charging current	AC 3-phase

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

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

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)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 80 °C

Standards and regulations

Standards

Standards/regulations	IEC 61851-1

Mounting

Mounting position	any

Classifications

ECLASS

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%

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com