EV-RCM-C2-AC30-DC6 - Differential current monitoring

1622451

https://www.phoenixcontact.com/pc/products/1622451

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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	1622451
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBRYA
GTIN	4055626040608
Weight per piece (including packing)	476.7 g
Weight per piece (excluding packing)	443 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	2-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 $I_{\Delta n}$: AC and DC residual currents
	Alarm relay 2 $I_{\Delta n}$: AC and DC 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	2 (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%

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