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

1309697

https://www.phoenixcontact.com/us/products/1309697

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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	1309697
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBBFK
GTIN	4063151560669
Weight per piece (including packing)	67.6 g
Weight per piece (excluding packing)	67.6 g
Customs tariff number	85437090
Country of origin	CN

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

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

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002889

UNSPSC

UNSPSC 21.0	39121800

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%

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

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

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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