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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 039794
GTIN	4055626039794

Technical data

Product definition

Type	1-channel
Application	Residual current monitoring module (RCM) for AC charging controllers for private applications (EU/CN)
Standards/regulations	IEC 61851-1
Charging standard	Type 2
Charging mode	Mode 3
Number of supported charging points	1
Conformance	CE-compliant

Dimensions

Height	90 mm
Width	36 mm
Depth	70.50 mm

Ambient conditions

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

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Inputs

Description of the input	Plug-in; front

Switching outputs

Control of charging contactor	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

Measuring range of the residual current

Rated frequency f_n	≤ 2000 Hz
Nominal differential current	± 300 mA (Peak)
Current measuring range	50 A (45 Hz ... 50 Hz)
Residual current $I_{\Delta n}$	30 mA
	6 mA
Tripping time for $I_{\Delta n}$	< 180 ms
Rated current I_n	32 A
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
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

Connection data

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

Device 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

Mounting

Mounting position	any

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Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Classifications

eCl@ss

eCl@ss 10.0.1	27144703
eCl@ss 11.0	27144703
eCl@ss 4.0	27210900
eCl@ss 4.1	27371100
eCl@ss 5.0	27371800
eCl@ss 5.1	27371800
eCl@ss 6.0	27371800
eCl@ss 7.0	27371809
eCl@ss 8.0	27371809
eCl@ss 9.0	27144703

ETIM

ETIM 3.0	EC001505
ETIM 4.0	EC001599
ETIM 5.0	EC001321
ETIM 6.0	EC002889
ETIM 7.0	EC002889

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121535
UNSPSC 11	39121535
UNSPSC 12.01	39121535
UNSPSC 13.2	39121801
UNSPSC 18.0	39121801
UNSPSC 19.0	39121801
UNSPSC 20.0	39121801
UNSPSC 21.0	39121801

Accessories

Accessories

AC charging controller

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Accessories

AC charging controller - EM-CP-PP-ETH - 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.

AC charging controller - EV-CC-AC1-M3-CBC-SER-HS - 1622452

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.

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

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

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

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Accessories

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

AC charging controller - EV-CC-AC1-M3-CC-SER-PCB - 1622460

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.

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

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