

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



Key commercial data

package_quantity	1
GTIN	4055626040608

Technical data

Product definition

Product type	Residual current monitoring module (RCM) for AC charging controllers for private applications (EU/CN)
Type	2-channel
Standards/regulations	IEC 61851-1
Charging standard	Type 2
Charging mode	Mode 3
Type of charging current	AC 3-phase
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)
Degree of protection	IP30 (Inserts)

Inputs

Description of the input	Plug-in; front
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Switching outputs

Control of charging contactor	Alarm relay 1 I _{Δn} : AC and DC residual currents
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Technical data

Switching outputs

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
Residual current $I_{\Delta n}$	6 mA
Rated current I_n	32 A
Tripping time for $I_{\Delta n}$	< 180 ms
Response time for $2 \times I_{\Delta n}$	< 70 ms
Tripping time for $5 \times I_{\Delta n}$	< 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

Data interfaces

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

Connection data

Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Connection method	Spring-cage connection

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

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Classifications

eCl@ss

eCl@ss 4.0	27210902
eCl@ss 4.1	27371105
eCl@ss 5.0	27371801
eCl@ss 5.1	27371810
eCl@ss 6.0	27371810
eCl@ss 7.0	27371810
eCl@ss 8.0	27371809
eCl@ss 9.0	27144703

ETIM

ETIM 3.0	EC001505
ETIM 4.0	EC001599
ETIM 5.0	EC001445
ETIM 6.0	EC001445

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121535
UNSPSC 11	39121535
UNSPSC 12.01	39121535
UNSPSC 13.2	39121801

Accessories

AC charging controller

EM-CP-PP-ETH - 2902802



EV-CC-AC1-M3-CBC-SER-HS - 1622452



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Accessories

EV-CC-AC1-M3-CBC-SER-PCB - 1622453



EV-CC-AC1-M3-CBC-SER-PCB-XC-25 - 1627743



EV-CC-AC1-M3-CBC-SER-PCB-MSTB - 1627353



EV-CC-AC1-M3-CC-SER-HS - 1622459



EV-CC-AC1-M3-CC-SER-PCB - 1622460



EV-CC-AC1-M3-CC-SER-PCB-XC-25X - 1627742



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Accessories

EV-CC-AC1-M3-CC-SER-PCB-MSTB - 1627367



Drawings

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