

## Differential current monitoring - RCM-A-SCT-105 - 2806087

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Differential current converter for type A differential current monitor.

### Product Features

- Residual current detection characteristics type A (50/60 Hz)
- Detects pulsating DC and AC residual currents
- Adjustable residual response current of 30 mA to 3 A
- Adjustable pre-alarm threshold and delay time
- Actual residual current can be read via LED display
- Remote signaling for main and pre-alarm
- Residual current monitoring devices act as a form of fire prevention



### Key commercial data

Packing unit	1 pc
Custom tariff number	85043180
Country of origin	Germany

### Technical data

#### Dimensions

Height	170 mm
Width	33 mm
Depth	146 mm
Diameter converter	105.00 mm
Outside diameter of cables max.	70.00 mm

#### Ambient conditions

Degree of protection	IP20 (terminal blocks)
	IP45 (housing)

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## Technical data

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

### General

Housing material	Polycarbonate
Mounting type	Screw mounting

### Common characteristics

Rated current $I_n$	250 A
Rated response differential current $I_{dyn}$	3 A
Differential current acquisition characteristic	Type A (50 / 60 Hz)
Response differential current $I_{\Delta n}$	0.03 A ... 3 A
Thermal permanent differential current $I_{cth}$	$1.5 \times I_n$
Thermal rated short-time differential current $I_{th}$	$10 \times I_n$ (for 1 s)
Rated surge voltage resistance $U_{imp}$	8 kV
Surge voltage category	IV
Rated voltage $U_n$	690 V
Pollution degree	2
Max. overcurrent as regards the non-resolution	$6 \times I_n$
Rated differential short-circuit current $I_{\Delta c}$	10 kA
Rated surge differential current $I_{dyn}$	$25 \times I_n$

### Connections

Connection method	Screw terminal blocks
Number of connections	2
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Cable/line name	Converter supply line
Maximum cable length	10 m
Cross section	0.5 mm <sup>2</sup>
Cable type	LiY

### Standards and Regulations

Standards/specifications	DIN EN 62020
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## Technical data

### Standards and Regulations

	VDE 0663
	DIN EN 60044-1
	VDE 0414

## Classifications

### eCl@ss

eCl@ss 4.0	27210902
eCl@ss 4.1	27210902
eCl@ss 5.0	27210902
eCl@ss 5.1	27210902
eCl@ss 6.0	27210902
eCl@ss 7.0	27210902
eCl@ss 8.0	27210902

### ETIM

ETIM 2.0	EC001505
ETIM 3.0	EC001505
ETIM 4.0	EC002048
ETIM 5.0	EC002048

### UNSPSC

UNSPSC 6.01	30211501
UNSPSC 7.0901	39121019
UNSPSC 11	39121006
UNSPSC 12.01	39121006
UNSPSC 13.2	39121006

## Approvals

### Approvals

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Approvals

VDE Zeichengenehmigung

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Ex Approvals

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## Differential current monitoring - RCM-A-SCT-105 - 2806087

### Approvals

Approvals submitted

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### Approval details

VDE Zeichengenehmigung 

### Drawings

#### Circuit diagram

