

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



2806087

<https://www.phoenixcontact.com/us/products/2806087>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Differential current converter for type A differential current monitor.



## Commercial data

Item number	2806087
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL05
Product key	CLB213
GTIN	4046356504751
Weight per piece (including packing)	587.6 g
Weight per piece (excluding packing)	587.6 g
Customs tariff number	85043180
Country of origin	DE

## Technical data

### Product properties

Product type	Current transformer
Insulation characteristics	
Overvoltage category	IV
Pollution degree	2

### Electrical properties

#### Typical characteristics

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

### Connection data

Connection method	Screw terminal blocks
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	4 mm <sup>2</sup>

### Dimensions

Width	33 mm
Height	170 mm
Depth	146 mm

### Material specifications

Housing material	PC
------------------	----

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20 (terminal blocks)
	IP45 (housing)
Ambient temperature (operation)	-20 °C ... 65 °C

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



2806087

<https://www.phoenixcontact.com/us/products/2806087>

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

## Standards and regulations

Standards/specifications	DIN EN 62020
Standards/specifications	VDE 0663
Standards/specifications	DIN EN 60044-1
Standards/specifications	VDE 0414

## Mounting

Mounting type	Screw mounting
Mounting position	any

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

2806087

<https://www.phoenixcontact.com/us/products/2806087>



## Drawings

### Circuit diagram



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



2806087

<https://www.phoenixcontact.com/us/products/2806087>

## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)