

## Differential current monitoring - RCM-A/50/85-264V - 2806016

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Differential current monitor in type A version for detecting pulsing AC and DC leakage currents at 50/60 Hz.

### 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
Weight per Piece (excluding packing)	200.0 GRM
Custom tariff number	90303310
Country of origin	Germany

### Technical data

#### Dimensions

Height	89.7 mm
Width	71.6 mm
Depth	62.2 mm
Horizontal pitch	4 Div.

#### Ambient conditions

Degree of protection	IP20
----------------------	------

# Differential current monitoring - RCM-A/50/85-264V - 2806016

## Technical data

### Ambient conditions

	IP40 (distributor installation with cover)
Ambient temperature (operation)	-25 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

### General

Housing material	Polycarbonate
Mounting type	DIN rail: 35 mm

### Common characteristics

Nominal voltage $U_N$	85 V AC ... 264 V AC
Nominal frequency $f_N$	50 Hz (60 Hz)
Current consumption	< 4 VA
Max. required back-up fuse	16 A (B)
Rated response differential current $I_{dyn}$	3 A
Differential current acquisition characteristic	Type A (50 / 60 Hz)
Response differential current $I_{\Delta n}$	30, 100, 300, 1000, 3000 mA (adjustable)
Discrimination threshold main alarm	80 % ... 100 % (of the set response differential current $I_{\Delta n}$ )
Discrimination threshold pre-alarm	10 % ... 90 % (of the main alarm threshold, adjustable)
Response time for $2 \times I_{\Delta n}$	0.1 s ... 1 s (adjustable)
Rated surge voltage resistance $U_{imp}$	4 kV
Surge voltage category	III
Rated voltage $U_n$	230 V AC
Pollution degree	2

### Connections

Connection method	Screw terminal blocks
Tightening torque	0.6 Nm
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
Min. conductor cross section, stranded, with ferrule	0.25 mm <sup>2</sup>
Max. conductor cross section, stranded, with ferrule	2.5 mm <sup>2</sup>

### Remote indication contact

Connection name	Pre-alarm
-----------------	-----------

## Differential current monitoring - RCM-A/50/85-264V - 2806016

### Technical data

#### Remote indication contact

Switching function	PDT contact
Connection name	Main alarm
Switching function	PDT contact
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>
Maximum operating voltage U <sub>max.</sub> AC	230 V AC
Max. operating current I <sub>max</sub>	5 A (cos phi > 0.9)
Max. required back-up fuse	4 A (gL)

#### Standards and Regulations

Standards/specifications	DIN EN 62020
	DIN EN 60664

### Classifications

#### eCl@ss

eCl@ss 4.0	27371105
eCl@ss 4.1	27371105
eCl@ss 5.0	27371802
eCl@ss 5.1	27371802
eCl@ss 6.0	27371802
eCl@ss 7.0	27371802
eCl@ss 8.0	27371802

#### ETIM

ETIM 2.0	EC001440
ETIM 3.0	EC001440
ETIM 4.0	EC001440
ETIM 5.0	EC001440

#### UNSPSC

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

# Differential current monitoring - RCM-A/50/85-264V - 2806016

## Approvals

Approvals

---

Approvals

VDE Zeichengenehmigung

---


Ex Approvals

---

Approvals submitted

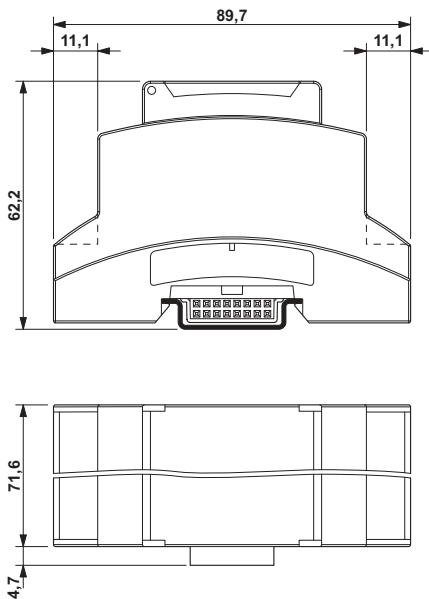
---

## Approval details

VDE Zeichengenehmigung 

## Drawings

Dimensioned drawing



Circuit diagram

