Differential current monitoring - RCM-B/50/85-264V - 2806210

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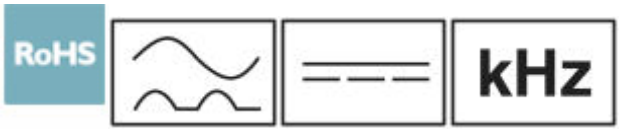
Residual current monitor in type B+ version for detecting smooth and pulsing AC and DC residual currents up to 100 kHz.

Your advantages

- Residual current detection characteristics type B+ (DC up to 100 kHz)
- Detects smooth and 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
GTIN	4 046356 504928
GTIN	4046356504928

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

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Technical data

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	< 6 VA
Max. required back-up fuse	16 A (B)
Rated response differential current I_{dyn}	3 A
Differential current acquisition characteristic	Type B+ (DC up to 100 kHz)
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 x $I_{\Delta n}$	0.1 s ... 1 s (adjustable)
Rated surge voltage resistance U_{imp}	4 kV
Overvoltage category_GRP	III
Rated voltage U_n	230 V AC
Degree of pollution	2

Connections

Connection method	Screw terminal blocks
Tightening torque	0.6 Nm
Stripping length	8 mm
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Min. conductor cross section, flexible, with ferrule	0.25 mm²
Max. conductor cross section, flexible, with ferrule	2.5 mm²

Remote indication contact

Switching function	PDT contact
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Maximum operating voltage $U_{max.}$ AC	230 V AC
Max. operating current I_{max}	5 A (cos phi > 0.9)
Max. required back-up fuse	4 A (gL)

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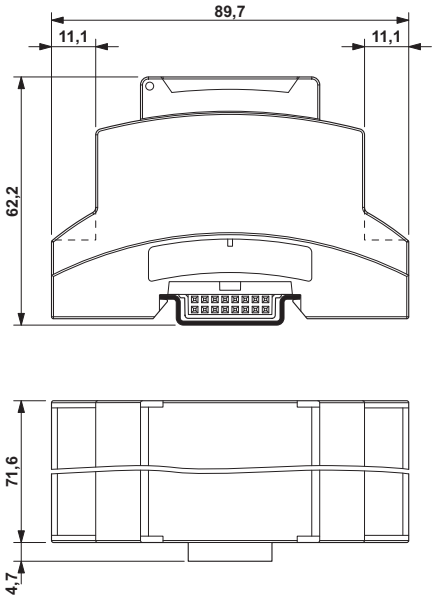
Technical data

Standards and Regulations

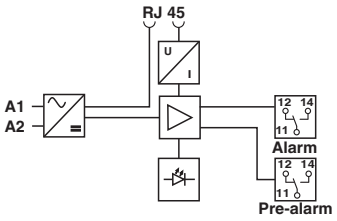
Standards/specifications	DIN EN 62020
	DIN EN 60664
	DIN VDE 0664-400 2012

Drawings

Dimensional drawing



Circuit diagram



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