

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



2806210

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

Commercial data

Item number	2806210
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL05
Product key	CLB212
GTIN	4046356504928
Weight per piece (including packing)	203.5 g
Weight per piece (excluding packing)	203.5 g
Customs tariff number	90303310
Country of origin	DE

Technical data

Product properties

Product type	Evaluation unit
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Current consumption	< 6 VA
Nominal frequency f_N	50 Hz (60 Hz)
Nominal voltage U_N	85 V AC ... 264 V AC

Typical characteristics

Max. required back-up fuse	16 A (B)
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Indicator/remote signaling

Switching function	Changeover contact
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)

Typical characteristics

Rated response differential current I_{dyn}	3 A
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 voltage U_n	230 V AC
Differential current acquisition characteristic	Type B+ (DC up to 100 kHz)
Rated surge voltage resistance U_{imp}	4 kV

Connection data

Connection method	Screw terminal blocks
Tightening torque	0.6 Nm
Conductor cross-section flexible min.	0.2 mm ²
Conductor cross-section flexible max.	2.5 mm ²
Min. conductor cross-section, flexible, with ferrule	0.25 mm ²
Max. conductor cross-section, flexible, with ferrule	2.5 mm ²
Conductor cross-section, rigid min.	0.2 mm ²
Conductor cross-section, rigid max.	4 mm ²

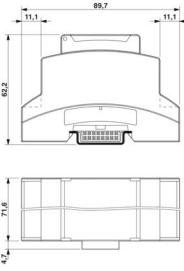
Dimensions

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

Material specifications

Housing material	PC
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Environmental and real-life conditions

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

Standards and regulations

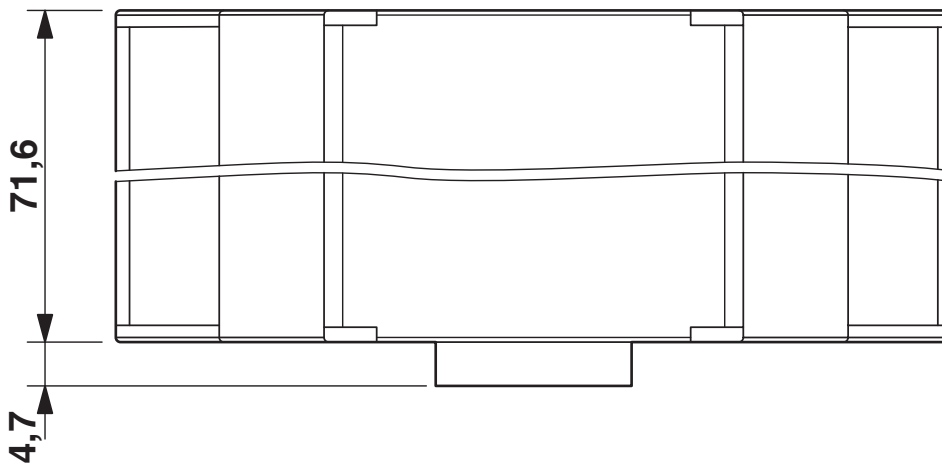
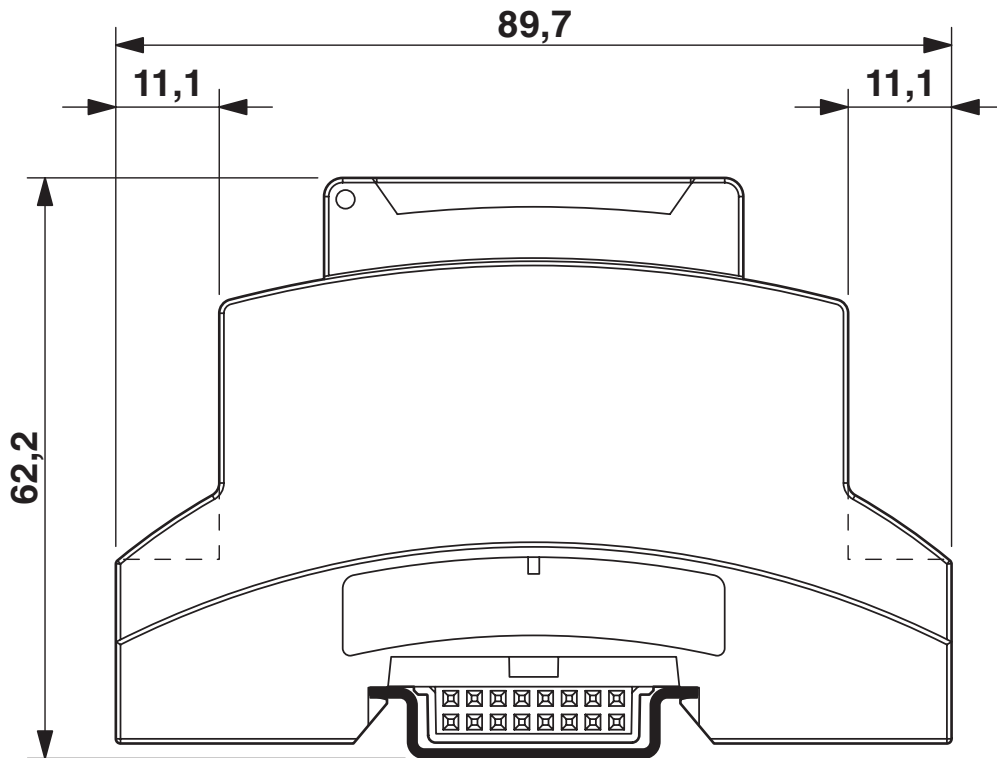
Standards/specifications	DIN EN 62020
Standards/specifications	DIN EN 60664
Standards/specifications	DIN VDE 0664-400
Note	2012

Mounting

Mounting type	DIN rail: 35 mm
Mounting position	any

Drawings

Dimensional drawing



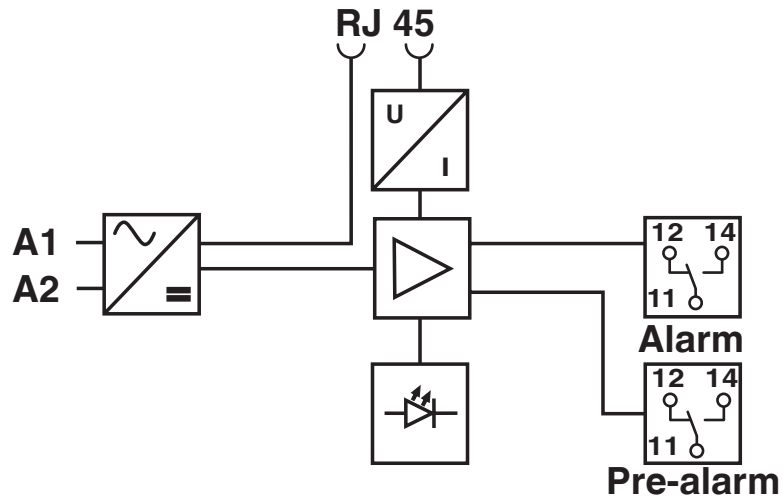
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Circuit diagram



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Environmental product compliance

EU REACH SVHC

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