

RGU-110B

RGU-110B, Residual current monitoring relay, type B

Code: P11952.

> Protocol: Modbus RTU
> Módules: 3
> Pre-alarm relay: Yes
> Communications: RS-485
> N° relays: 1
> IΔn (A): 1, 1.5, 2, 3, 5, 10 A
> Power supply (Vac): 110...230 Vac
> Delay: 1, 3, 5 s
> Mounting: DIN rail

Description

Electronic relay for protection and monitoring of differential current intensity (IEC 62020), compatible with the **WB** series, for type B loads (IEC 60755).

High-performance relay with the following main features and functions:

- Electronic relay with relay output.
- It measures in alternating, continuous or mixed (Type B according to IEC 60755).
- Measures and visualizes current intensity by connecting to WB Series Differential Transformer.
- Fully programmable with real-time instantaneous leakage current display by high-contrast backlit display (red display when the relay trips).
- Integrated RS-485 (Modbus) communications.
- Pre-alarm relay.
- Remote control input.

Application

Differential protection or monitoring of single-phase or three-phase electrical loads in alternating current with direct components, such as:

- Variable speed drives.
- UPS
- Photovoltaic installations.
- Electric Vehicle Charging.
- Active filters.

Its compatibility with transformers up to 4000 A makes it especially suitable for large loads or protection of subframes or general panels.

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Electronic residual current residual current protection and monitoring relay Type B

Code: P11952.

Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	7.5 VA
Frequency	50 ... 60 Hz
Nominal voltage	110...230 Vac

Mechanical characteristics

Size (mm) width x height x depth	52.5 x 118 x 74 (mm)
Envelope	Self-extinguishing V0 plastic
Fastening	DIN rail (IEC 60715)
Weight (kg)	0,188

Environmental characteristics

Protection class	IP 30, IP 40 (Vorderseite)
Relative humidity (without condensation)	5 ... 95 %
Storage temperature	-20 ... +70 °C
Working temperature	-10 ... +50 °C

Digital inputs

Input impedance	2 kΩ
Input/output insulation	5.3 kV
Type	Potential-free contact

Standards

Electrical safety, Maximum height (m)	2000
Standards	IEC 60947-2-M; UNE-EN 60068-2-1; UNE-EN 60068-2-2; UNE-EN 60068-2-78

User interface

LED	2
Keyboard	3 keys
Display type	LCD (negative)

Digital relay outputs

Quantity	1
Maximum current	6 A
Maximum open contact voltage	230 V ~
Electrical life	60×10^3 (250 V ~ / 5A)
Mechanical life	10×10^6



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Maximum switching capacity	1500 VA

Digital transistor outputs

Type	Optocoupled
Maximum current	0.1 A
Maximum voltage	230 V ~

Differential protection

Type	Type B
Sensitivity (IΔn), A	1, 1.5, 2, 3, 5, 10
Delay time (tΔ)	1, 3, 5 s
Transformer	External, WB series (not included)

Serial communication

Protocol	Modbus/RTU
Technology / Type	RS-485

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CODE	TYPE	IΔn (A)	Nº relays	Pre-alarm relay	Módules	Mounting	Delay	Communications	Protocol	Power supply
P11952.	RGU-110B	1, 1.5, 2, 3, 5, 10 A	1	Yes	3	DIN rail	1, 3, 5 s	RS-485	Modbus RTU	110...230 Vac

Requires an residual current transformer, WB type. See codification table for other options.

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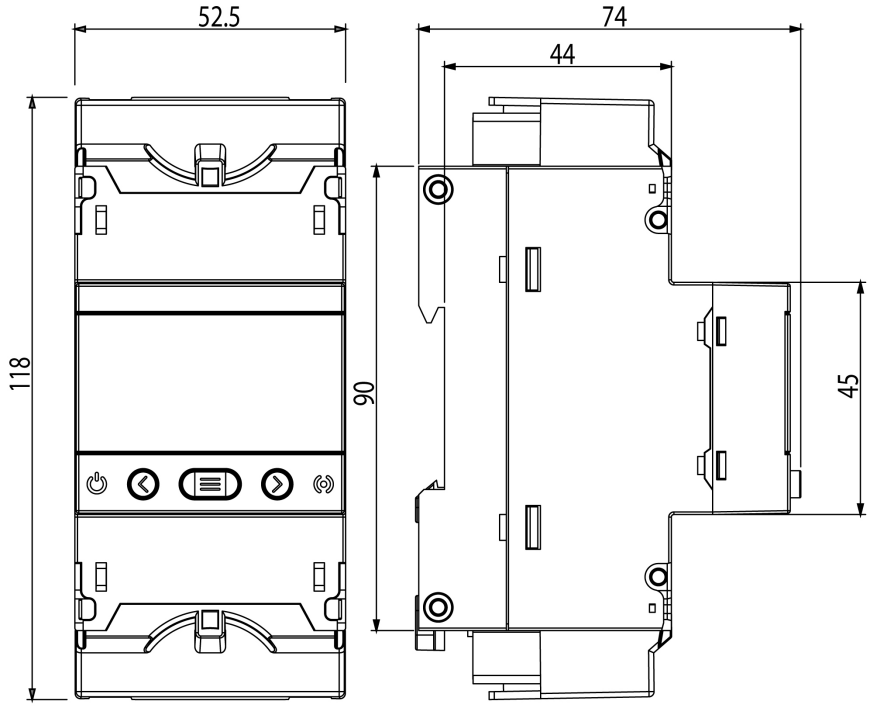


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Dimensions



Connections