



WRU-100A

WRU-100A, Residual current relay

Code: P14037.

- > Módulos: 4
- > Pre-alarm relay: Yes
- > Inner diameter (mm): 25
- > N° relays: 1
- > $I_{\Delta n}$ (A): 0,03 ...30 A
- > Power supply: 110...230 Vac
- > Delay: INS, SEL...5s
- > Sensitivity: 30...30000 mA
- > Mounting: DIN rail

Description

The **WRU-100A** is a residual current relay with a built-in 25 mm transformer, forming a single assembly. Type A ultra-immunised, with high-frequency current filtering. True RMS measurement (TRMS).

Main features:

- Measured at true RMS (TRMS).
- Keyboard programming menu lock.
- RGB backlit display.
- Ultra-immunized type A differential protection.
- High immunity against transients.
- Filtering of harmonics and high-frequency currents.
- Trigger adjustment between 80 and 100% of $I_{\Delta n}$.
- Inverse Trigger Curve.
- RS-485 communications.

Application

The **WRU-100A** is designed to offer intelligent and advanced differential protection in electrical installations.

Thanks to its ultra-immunized type A technology, it provides high security for people and helps to guarantee continuity of supply, minimizing unwanted shots and the possible associated economic losses.

The display of the instantaneous leakage value on the display, together with the pre-alarm indications, allows you to know the status of the protected lines at all times and facilitates more efficient preventive maintenance.

In addition, its RS-485 communications, together with PowerStudio software, allow for real-time centralized monitoring and recording of historical data for further analysis.



WRU-100A

Ultra-immunized Type A differential relay with built-in transformer

Code: P14037.

Specifications

AC power supply	
Installation category	CAT III 300V
Consumption	4 ... 6.5 VA
Frequency	50 ... 60 Hz
Nominal voltage	110 ... 230 V ~
Mechanical characteristics	
Size (mm) width x height x depth	70 x 118 x 74 (mm)
Envelope	Self-extinguishing V0 plastic
Fastening	DIN 46277 (EN 50022)
Weight (kg)	0,25
Environmental characteristics	
Protection class	IP40
Relative humidity (without condensation)	5 ... 95%
Storage temperature	-20 ... +70°C
Working temperature	-10 ... +50°C
Voltage measurement circuit	
Input impedance	94 KΩ
External reset input for tripping	
Type	Voltage 110 ... 230 V ~
Standards	
Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300 V
Electrical safety, Contamination level/class	2
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 Pushbuttons
Display type	LCD custom (negative)
Digital relay outputs	
Nominal voltage	250 V ~



WRU-100A

Ultra-immunized Type A differential relay with built-in transformer

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Differential protection

Type	Type A ultra-immunised
Sensitivity ($I\Delta n$), A	30 mA 100 mA 200 mA 300 mA 500 mA 750 mA 1 A 1,5 A 2 A 3 A 5 A 10 A 30 A
Delay time ($t\Delta$)	INS - [S] - 0.1 - 0.2 - 0.3 - 0.4 - 0.5 - 0.8 - 1 - 3 - 5 s
Transformer	Built-in

Protection

LED indication	Voltage presence Earth leakage tripping Prealarm
Measure	True root mean square (TRMS)

WRU 100A

Residual current relay, type A, with built-in transformer, ultra-immunised

CODE	TYPE
P14037.	WRU-100A



WRU-100A

Ultra-immunized Type A differential relay with built-in transformer

Code: P14037.

Dimensions



Connections

