WRU-10

WRU-10, Residual current relay

Code: P14035.

> Módules: 3
> Pre-alarm relay: Yes
> Usefull diam.(mm): 28
> N° relays: 1
> IΔn (A): 0,03 ... 3 A | 0,03 ...30 A
> Power supply (Vac): 230 Vac
> Delay: 0,02 ... 10 s, INS, SEL
> Mounting: DIN rail

Description

Electronic residual current protection relay with built-in 28 mm transformer, forming a single unit. Super-immunised type-A, with high-frequency current filtering and high immunity. True root mean square (TRMS) measurement.

- Display with LEDs and display:
  - Residual current protection parameters.
  - Protection trip current.
  - Protection status messages, etc.
- Unit with three programmable contact output relays, one switched and two single. The main relay is for the protection associated with the contact or trigger relay of the circuit breaker while the two others are for the prealarm.
- It also has a voltage-free input for external tripping and rearming.
- Assembly on **DIN 46277** rail (**EN 50022**), 3 modules.
- Connection by pluggable terminal strips.

Application

WRU-10 relays enable smart differential protection. Their design features guarantee maximum security and electrical service continuity, avoiding unwanted tripping.

Viewing the instantaneous leakage value on the display, together with the prealarm indicators, makes it possible to obtain information on the status of lines to be protected, and to perform adequate preventive maintenance.

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Residual current relay with built-in transformer and display

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Specifications

AC power supply

Consumption	4,5 VA
Frequency	50/60 Hz
Nominal voltage	230 V ~ ±30 %

Mechanical characteristics

Size (mm) width x height x depth	52.5 x 85 x 75 (mm)
Fastening	DIN 46277 (EN 50022)
Weight (kg)	0,19

Environmental characteristics

Protection class	IP 20
Relative humidity (without condensation)	95%
Working temperature	-20 ... +70 °C

Standards

Certifications	CE, Certification UL LISTED
Electrical safety, Maximum height (m)	2000
Standards	IEC 60755, IEC 60947-2-M, UL 1053

External reset input for tripping

Type	Voltage free, not insulated

Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)

Other digital relay outputs

Nominal load	1250 VA
Nominal current	5 A ~
Nominal voltage	250 V ~

Digital relay outputs

Nominal load	62,5 VA
Nominal current	0,25 A ~
Nominal voltage	230 V ~

Differential protection

Type	Type A ultra-immunised
Sensitivity (IΔn), A	0,03 ... 3 / 5-10-30 (Setup)

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Delay time (tΔ)	Direct setting: 0.02 ... 1 s Programmable: 3-5-10 s Inverse curve: Instantaneous or selective

Protection

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

WRU-10
Residual current relay, type A, with built-in transformer, ultra-immunised

CODE	TYPE	Usefull diam.(mm)	N° relays	IΔn (A)
P14035.	WRU-10	28	1	0,03 ... 3 A | 0,03 ...30 A
P14036.	WRU-10-HS	28	1	0,01 ... 0,5 A

To encode other parameters, such as the auxiliary power supply voltage, see the table at the end of the section.

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Residual current relay with built-in transformer and display

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Dimensions

Connections