



WRU-10-HS

WRU-10-HS, Residual current relay

Code: P14036.

- > Módulos: 3
- > Pre-alarm relay: Yes
- > Usefull diam.(mm): 28
- > N° relays: 1
- > I Δ n (A): 0,01 ... 0,5 A
- > Power supply (Vac): 230 Vac
- > Delay: 0,02 ... 10 s, INS, SEL
- > Nr. reclosures: 30
- > 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.



WRU-10-HS

Residual current relay with built-in transformer and display

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Specifications

AC power supply

Installation category	CAT III 300 V
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 109.4 x 75 (mm)
Envelope	Plastic V0 polycarbonate
Fastening	DIN rail (with accessory)
Weight (kg)	0,1

Environmental characteristics

Protection class	IP 41 (Front) / IP 20 (sides and back cover)
Relative humidity (without condensation)	5 ... 95 %
Storage temperature	-25 ... +75 °C
Working temperature	-20 ... +70 °C

Varistor characteristics

Maximum voltage	420 V~ , 10 A ~
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Standards

Certifications	CE, CMim
Electrical safety, Maximum height (m)	2000
Standards	IEC 60947-2, IEC 60755, IEC 62020

External reset input for tripping

Type	Voltage free, not insulated
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Electrical safety

Insulation	Double-insulated electric shock protection class II
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User interface

LED	2 LED
Keyboard	7 keys
Display type	LCD

Other digital relay outputs

Nominal load	1250 VA
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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 ($I_{\Delta n}$), A	0,01-0,02-0,03-0,1-0,3-0,5 por ajuste directo
Delay time (t Δ)	INS / SEL / Direct setting: 0.02 ... 1 s

Protection

LED indication	Power supply voltage Earth leakage tripping Pre-alarm latching
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	$I_{\Delta n}$ (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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Dimensions



Connections

