

# WRU-10

Differential relay with built-in transformer and display



## Description

Electronic differential protection relay with built-in 28 mm transformer, constituting one unit.

- Type A high-insulation, with high-frequency current filter and high insulation. Monitoring using true root mean square.
- Display with LEDs and display:
  - differential protection settings.
  - protection trigger current.
  - protection status messages, etc.
- Units with three programmable output contact relays, one switched and two simple. The main relay is for the protection provided by the contact or trigger relay of the automatic switch while the two others are for the pre-alarm.
- It also has a voltage input for external triggering and re-arming.
- Assembly on DIN Rail 46277 (EN 50022)
- Reduced three-module size.
- Connection by pluggable terminals.

## Application

WRU-10 relays allow for intelligent differential protection. Due to their design features, they assure maximum safety and continuity in electrical service, avoiding unwanted tripping..

Information on the state of the protected lines is made available through the visualization of the instantaneous leakage value on the display screen together with prealarm signals, allowing for effective preventive maintenance.

## Features

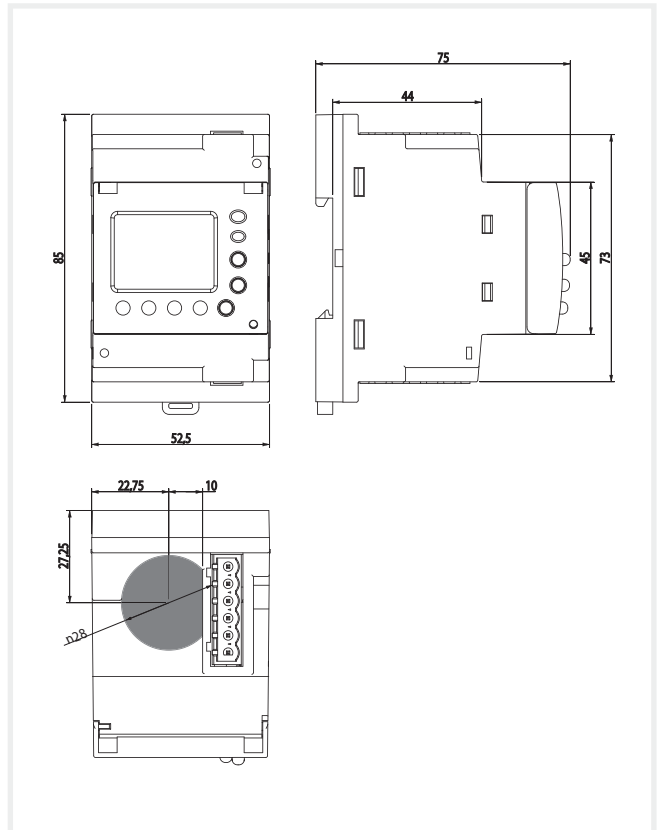
<b>Protection</b>	
Class	A superimmunized
Measurement	True root mean square (TRMS)
Sensitivity PROGRAMABLE	0,03 ... 3 A, scalable up to 30 A by SETUP
Delay PROGRAMABLE	Time defined: 0,02 ... 1 s, scalable up to 10s by SETUP. Inverse curve: Instantaneous or selective (IEC 60947-2)
Test y Reset	With built-in buttons, T & R
Remote Control	External Test Option, voltage-free input tripping.
Associated circuit breaker	Contact or Circuit breaker + trigger coil
LED indicator	<ul style="list-style-type: none"> <li>• Power supply voltage</li> <li>• Trip due to leakage</li> <li>• Pre-alarm</li> </ul> - Protection parameters - Leakage current/trip reading - Leakage current/trip reading.- TEST statuses and external tripping.
Circuit breaker control	Through an NO/NC switched relay, depending on the connection with the circuit breaker
<b>Electric features</b>	
Auxiliary power supply	230 Vac ( $\pm 30\%$ ) 50 / 60 Hz
Output contacts	250 Vac, 5 A / 230 Vac, 250 mA
Operating temperature	-20 ...+70 °C
<b>Construction features</b>	
Fixing	DIN Rail 46272 (EN 50022)
Dimensions	3 modules
Weight	275 g
Degree of protection	IP 20, IP 41 back panel
<b>Standards</b>	
IEC 60947-2, IEC 60755, IEC 62020, IEC 61008	

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## Dimensions

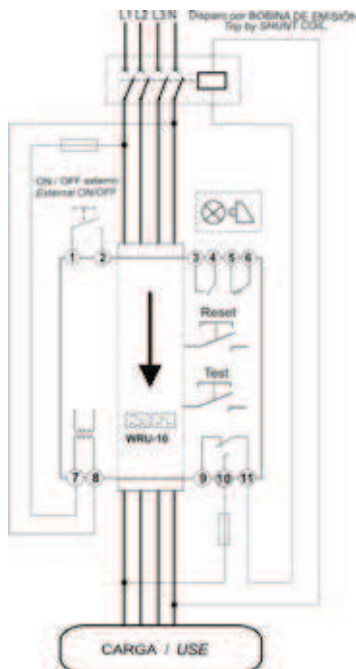


## References

Size	Net section (mm)	$I_n$ (A)	Delay	Type	Code
3 modules	28 Ø	0.03 ... 3 A extendible to 30 A	0.02 ... 1 s extendible to 10s Curve (Inverse): INS/SEL	WRU-25	P2

## Connections

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