

Earth leakage and circuit breaker protection with earth leakage reclosing system

# WRU-10 K

Earth leakage relay with built-in transformer and display (type A)



## Description

Electronic earth leakage protection relay for self-reclosing, with Ø28 mm built-in toroidal transformer, forming a single unit.

Type A relay (IEC 60755) ultra-immunized. True root mean square measure (TRMS).

Display with LEDs and backlit (LCD) display:

- Earth leakage protection/reclosing parameters.
- Protection trip current.
- Number of reclosures
- Protection status messages, etc.

Device with three output relays, one for indicating locking status and the other two for the trip and subsequent reset of the circuit breaker (MCB-P).

It is only used with the MCB-P, with it not being possible to associate it with others. It has voltage-free input for remote control trip/reset operations.

## Application

The WRU-10K relays connected to the MCB-P guarantee self-reclosing earth leakage and circuit breaker protection after an earth leakage trip.

It is a good solution for those infrastructures that are hard to control and monitor because of their location. Control boards for:

- Telephony systems
- DTT systems
- Computer systems, UPS

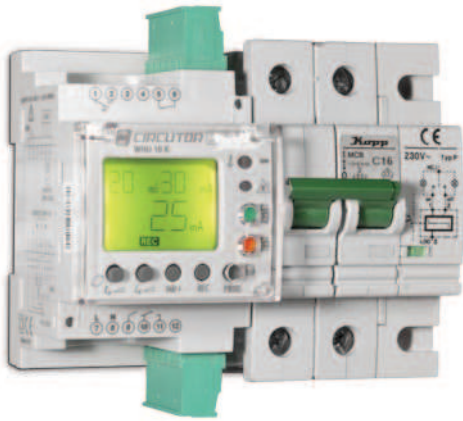
## Features

<b>Protection</b>	<b>Earth leakage</b>
Type	Type A (IEC 60755) ultra-immunized
Measure	True root mean square (TRMS)
Sensitivity	Fixed, 30 mA
Trip delay	Fixed, INS Curve
TEST and RESET	Using buttons T and R
<b>Protection</b>	<b>Circuit breaker</b>
Circuit breaker to be associated	MCB-P circuit breaker
Current, $I_n$	6-10-16-20-25-32-40-50-63 A
Number of poles	2/4
Rated voltage, $U_n$ $V_{ac}$	230 / 400
Trip curves	C
Cut off power	10 kA (EN 60898) MCB-P
<b>Reclosure</b>	<b>Earth leakage</b>
No. of reclosures	15
Time between reclosures	20 s, 40 s and the rest 3 min
RESET time	15 min
<b>External signalling</b>	
LED	Presence of voltage, leakage trip, timing between reclosures
Display (LCD)	Instantaneous value of leakage, trip leakage value, reclosure energy meter, programming values, protection statuses
Remote	Potential free, auxiliary contact output Locking status (reclosing not enabled)
<b>External inputs</b>	
Remote ON / OFF	Trip / Reset, voltage-free input
<b>Electrical features</b>	
Auxiliary power supply	230 $V_{ac}$
Remote locking output contact	Potential free, 230 V, maximum current 200 mA
Remote input	Voltage-free, activated by button or external switch
<b>Mechanical features</b>	
Operating temperature	-10...+50 °C
Attachment	DIN rail 46277 (EN 50022)
Dimensions (modules)	3
Weight (grams)	236
Protection degree	IP 20 terminals, IP 41 embedded relay
Plug-in connection terminals	Vertical orientation
<b>Standards</b>	
IEC 60947-2, IEC 60755	

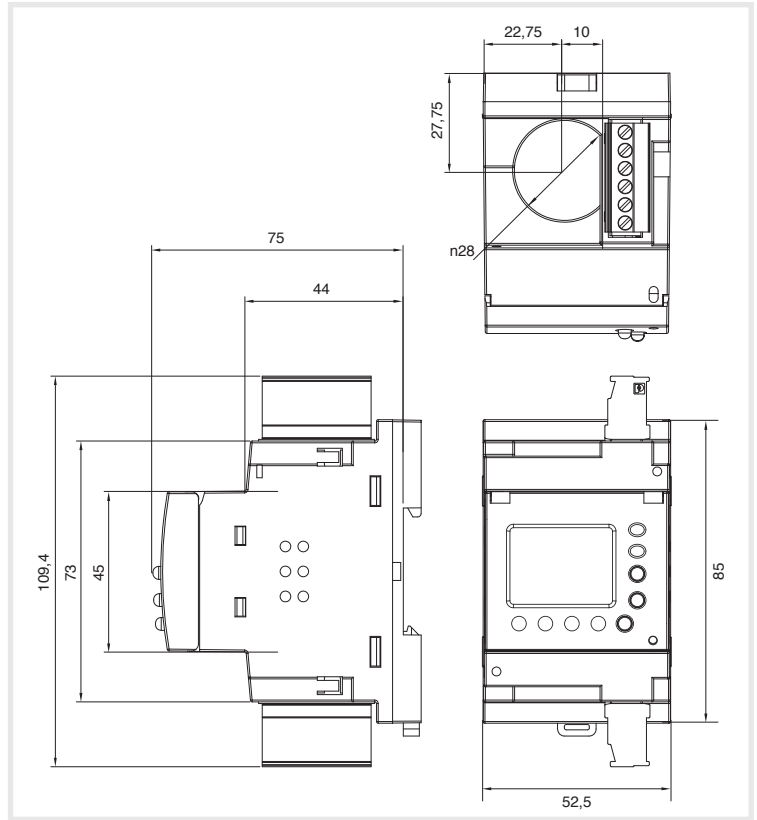
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## WRU-10 K

Earth leakage relay with built-in transformer and display (Type A)



### Dimensions

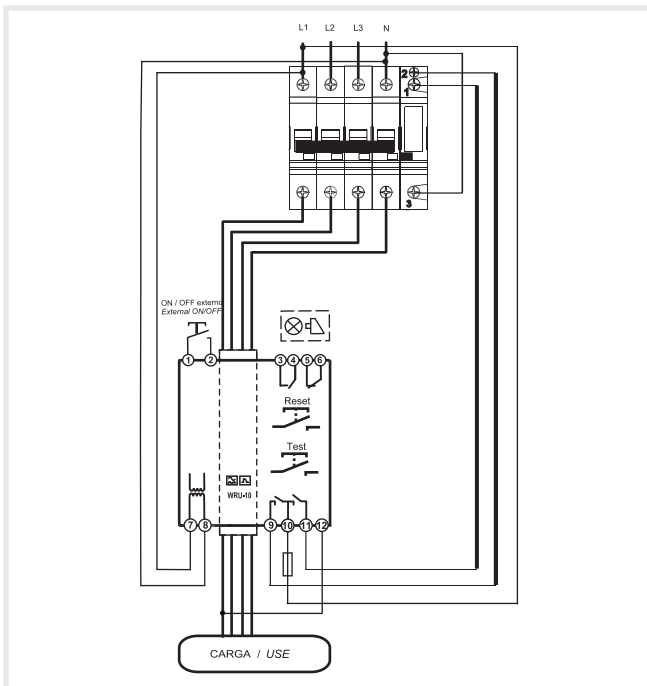


### References

No. of reclosures / Time between reclosures	Net section (mm)	$I_n$ (A)	Delay	$I_{\Delta n}$	Type	Code
15 / 20 s, 40 s and the rest 3 min	Ø 28	6-10-16-20-25-32-40-50-63 A	INS Curve	30 mA*	WRU-10 K	P23262

\* by default

### Connections



### Delay $\Delta t$

Type	$I_{\Delta n}$	Maximum operating time (s) for $I_{\Delta n}$			
		$1 \cdot I_{\Delta n}$	$2 \cdot I_{\Delta n}$	$5 \cdot I_{\Delta n}$	500 A
INSTantaneous	All values	0.3	0.15	0.04	0.04

Standardised values in accordance with IEC 61008-1