

# 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 LED 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.

### Applications

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

### Technical features

<b>Earth leakage protection</b>	Type	Type A (IEC 60755) Ultraminimised
	Measure	True root mean square (TRMS)
	Sensitivity, $I_{\Delta n}$	<b>WRU-10K-0,03-3</b> → 0,03...0,3 A <b>WRU-10K</b> → Fixed, 30 mA
	Trip delay, $t_{\Delta}$	<b>WRU-10K-0,03-3</b> → 0,02...1 s <b>WRU-10K</b> → Curve INS
<b>Circuit breaker protection</b>	TEST & RESET	Using buttons T and R
	Circuit breaker to be associated	Circuit breaker <b>MCB-P</b>
	Current $I_n$	6-10-16-20-25-32-40-50-63 A
	Number of poles	2 / 4
	Rated voltage, $U_n$ Vca	230 / 400
	Trip curves	C
<b>Earth leakage reclosure</b>	Cut off power	10 kA (EN 60898) <b>MCB-P</b>
	No. of reclosures	<b>WRU-10K-0,03-3</b> → 30 <b>WRU-10K</b> → 15
	Time between reclosures	<b>WRU-10K-0,03-3</b> → 20 s, 40 s, and the rest 5 min <b>WRU-10K</b> → 20 s, 40 s, and the rest 3 min
	RESET time	<b>WRU-10K-0,03-3</b> → 15 <b>WRU-10K</b> → 30
<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 Vca / 50-60 Hz
	Locking output contact	250 Vca, 5 A / 230 Vca, 250 mA
<b>Mechanical features</b>	Operating temperature	-20...+70 °C
	Attachment	<b>DIN rail 46277 (EN 50022)</b>
	Dimensions	3
	Weight	168 g
	Protection degree	IP 20
	Plug-in connection terminals	Vertical orientation
<b>Standards</b>	<b>IEC 60947-2, IEC 60755</b>	

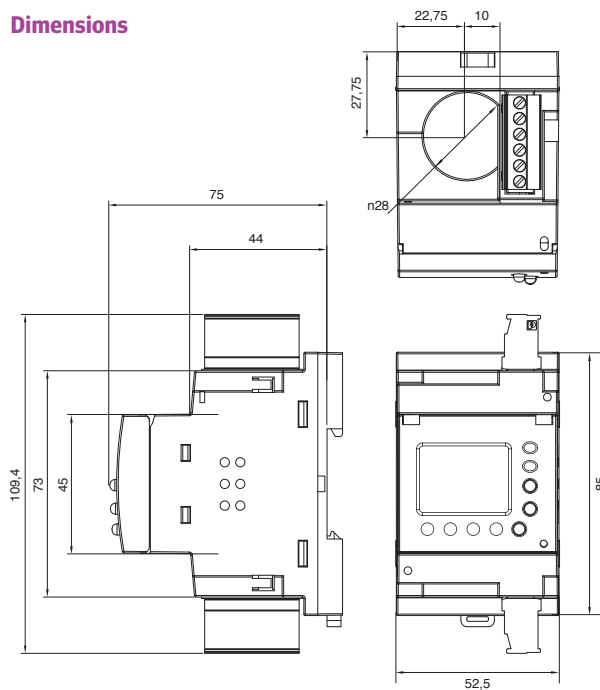
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## Earth leakage relay with built-in transformer and display (type A)

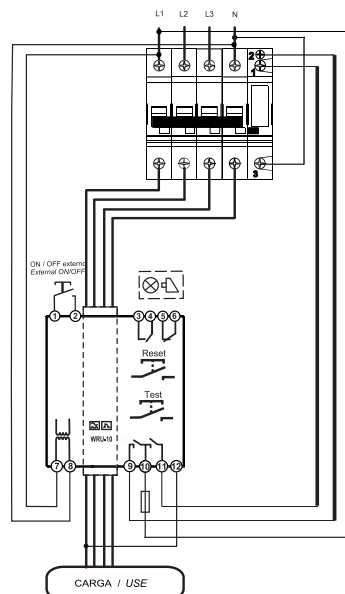
### References

Type	Code	No. reclosures Time between reclosures	$I_n$ (A)	Delay
WRU-10K-0,03-3	P23261	30 / 20 s, 40 s, and the rest 5 min	6-10-16-20-25-32-40-50-63 A	0,02...1 s
WRU-10K	P23262	15 / 20 s, 40 s, and the rest 3 min	6-10-16-20-25-32-40-50-63 A	Curve INS

### Dimensions



### Connections



### Delay $\Delta t$

Maximum operating time (s) for  $I_{\Delta n}$

Type	$I_{\Delta n}$	$1 \cdot I_{\Delta n}$	$2 \cdot I_{\Delta n}$	$5 \cdot I_{\Delta n}$	500 A
INS	For all values	0,3	0,15	0,04	0,04

Standardised values in accordance with IEC 61008-1