



## WRU-10K-0,03-3A

WRU-10K-0,03-3A, Self-reclosing relay

Code: P23261.

- > Usefull diam.(mm): 28
- >  $I_{\Delta n}$  (A): 0,03 ... 3 A
- > Delay: 0,02 ... 1 s
- > Nr. reclosures: 30
- > Time between reclosures: 20 s, 40 s then every 5 min
- > Breaking element: MCB

### Description

Electronic residual current 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:

- Residual current 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 residual current and circuit breaker protection after an residual current 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



# WRU-10K-0,03-3A

Residual current relay with built-in transformer and display (type A)

Code: P23261.

## 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 109.4 x 75 (mm)            |
| Fastening                                | DIN 46277 (EN 50022)              |
| Weight (kg)                              | 0,172                             |
| Environmental characteristics            |                                   |
| Protection class                         | IP 20                             |
| Relative humidity (without condensation) | 5 ... 95 %                        |
| Working temperature                      | -20 ... +70 °C                    |
| External reset input for tripping        |                                   |
| Type                                     | Voltage free / ON-OFF Remote      |
| Standards                                |                                   |
| Electrical safety, Maximum height (m)    | 2000                              |
| Standards                                | IEC 60947-2, IEC 60755, IEC 62020 |
| 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                        |
| Delay time (tΔ)                          | 0,02 ... 1 s                      |
| Protection                               |                                   |



# WRU-10K-0,03-3A

Residual current relay with built-in transformer and display (type A)

Code: P23261.

|                |  |
|----------------|--|
| LED indication | Voltage presence Earth leakage tripping Reclosure timing |
| Measure        | True root mean square (TRMS)                             |

Thermal-magnetic protection

|                   |                         |
|-------------------|-------------------------|
| Trip curve, Type  | C                       |
| Breaking capacity | 10 kA (IEC 60898) MCB-P |
| Nominal voltage   | 230 / 400 V ~           |

Reclosure type

|                  |  |
|------------------|--|
| Reclosure number | Differential: 30                               |
| Reset time       | Differential: 15 min                           |
| Reclosure time   | Differential: 20 s, 40 s, and rest every 5 min |

WRU-10k

Residual current relay with built-in transformer

| CODE    | TYPE            | IΔn (A)      | Breaking element |
|---------|-----------------|--------------|------------------|
| P23261. | WRU-10K-0,03-3A | 0,03 ... 3 A | MCB              |

Certified and Approved by Telefónica The delay is cancelled in all relays with a sensitivity adjustment of 0.03 A, IEC 60947-2 annex M. Requires a motorised circuit breaker, MCB-P type (not included)



## WRU-10K-0,03-3A

Residual current relay with built-in transformer and display (type A)

Code: P23261.

## Dimensions



## Connections

