

WRU-10 RAL

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



Description

Electronic earth leakage protection relay with self-reclosing system, with built-in 28 mm transformer, forming a single unit. Super-immunised type-A relay with high-frequency current filtering and high immunity. True root mean square (TRMS) measure. Display with LEDs and backlit display:

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

Device with three changeover contact output relays and two simple relays (all relays can be programmed). The main relay provides the protection associated with the contactor, one is for the prealarm and the other one is for interlocking once the maximum number of reclosures has been reached. It also has a voltage-free input for external tripping and rearming.

- Assembly on **DIN 46277** rail (**EN-50022**)
- Compact size: 3 modules
- Connection by pluggable terminal strips

Applications

WRU-10 RAL relays associated with a contactor allow automatic reclosing after tripping, thus offering the most adequate solution for street lights, ATMs, refrigerating chambers, traffic lights, etc. Their design features guarantee maximum security and electrical service continuity, avoiding unwanted tripping.

Technical features

| | | |
|---|---|--|
| Earth leakage protection | Class | A super-immunised |
| | Measurement | True root mean square (TRMS) |
| | PROGRAMMABLE sensitivity | 0.03...3 A, amplifiable to 30 A using SETUP |
| | PROGRAMMABLE delay | Time defined: 0.02...1 s, amplifiable to 10 s using SETUP. Inverse curve: INSTantaneous / SElective. (IEC 60947-2-M) |
| | Test and reset | Using buttons T and R |
| | Associated circuit breaker | Circuit breaker defining the number of poles and the I_n |
| | Circuit breaker control | Switched NO/NC contact relay |
| Reclosing system earth leakage and circuit breaker | No. of reclosures | |
| | Time between reclosures | Programmable |
| | Reclosure meter reset time | |
| Relay indications | LED indicators | Power supply voltage Leakage trip Prealarm Interlocking |
| | Backlit display | Protection settings Leakage/trip current reading TEST statuses and external trip Sequences / Number of reclosures |
| | Remote control | External TEST option, tripping by voltage-free input |
| | | |
| Electrical features | Auxiliary power supply | 230 Vac ($\pm 30\%$) 50 / 60 Hz |
| | Output contacts | 250 Vac, 5 A / 230 Vac, 250 mA |
| | Operating temperature | -20 °C...+ 70 °C |
| Mechanical features | Attachment | DIN 46277 rail (EN 50022) |
| | Dimensions | 3 modules |
| | Weight | 168 g |
| | Protection degree | IP 20, back panel IP 41 |
| Standards | IEC 60947-2-M, IEC 60755, IEC 62020, IEC 61008, UL1053 | |

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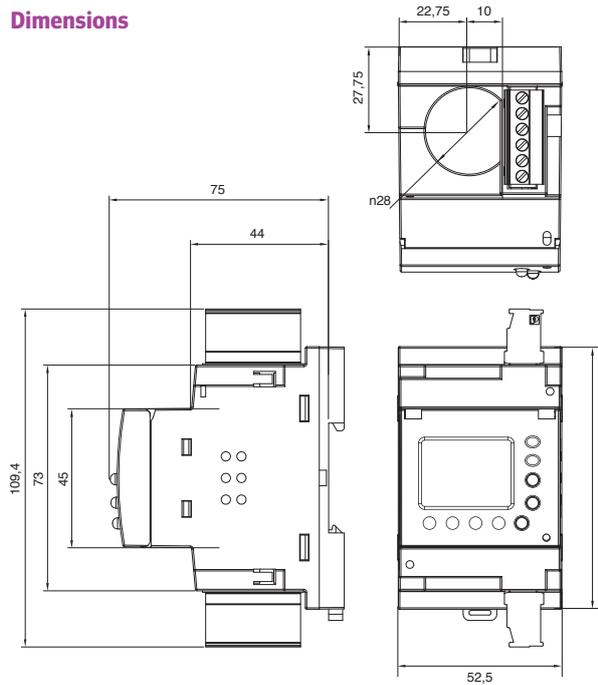
Earth leakage relay with built-in transformer and display (type A)



References

| Type | Code | No. of reclosures Time between reclosures | I_n (A) | Delay |
|-----------------|--------|--|----------------------------------|---|
| WRU-10 RAL | P24453 | Programmable | 0,03...3 A amplifiable a 30 A | 0,02...1s amplifiable a 10s Inverse curve: INS/SEL |
| WRU-10 RAL0,3-1 | P24457 | Programmable | 0,3...1 A | 0,02 INS |

Dimensions



Connections

