



WRGU-10MTT-C-2-50A

WRGU-10MTT-C-2-50A, Self reclosing

Code: P21817. (CONSULTAR DISPONIBILIDAD)

- > Poles: 2
- > In (A): 50 A
- > Breaking element: built-in
- > Curve: C

Description

The **WRGU-10 MTT** compact assembly forms a self-reclosing circuit breaker (overload and short-circuit) and residual current protection system in single-phase or three-phase electrical installations with a neutral of up to 63 A. The assembly is composed of the following elements:

- Residual current relay for protection, with **RGU-10 MTT** self-reclosing function
- **MP-T** series motorized circuit breaker as an overload and short-circuit protection element, and as a circuit breaker in residual current protection
- **WGC** residual current transformer, residual current sensor for residual current protection
- Remote switch, for resets and external manual reclosures

Application

The **WRGU-10 MTT** groups can be used to make safety compatible with the continuity of the service in remote installations or installations with more complicated maintenance. They ensure residual current (mandatory) and circuit breaker protection, guaranteeing selfreclosing for either of the two reasons. It is a very good solution in installations in special locations that are hard to control and monitor: telephony installations, television repeaters, refrigerating chambers, etc.

- Telephony systems
- DTT systems
- Industrial refrigerating chambers



WRGU-10MTT-C-2-50A

Complete protection and reclosing unit Residual current and circuit breaker

Code: P21817.

Specifications

AC power supply

| | |
|-----------------------------|------------------------|
| Consumption | 6 VA |
| Frequency | 50 Hz |
| auxiliary power supply mode | 230 V ~ |
| Nominal voltage | 230 V ~ ($\pm 20\%$) |

Mechanical characteristics

| | |
|---|---------------------------|
| Size (mm) width x height x depth | 225 x 205 x 110 (mm) |
| Envelope | Colour box RAL 7035 |
| Cable length to be stripped (mm) | 7 mm |
| Torque setting | 0.5 ... 0.6 Nm |
| Cable gauge at input and output terminals | 0,5 ... 2 mm ² |

Environmental characteristics

| | |
|---------------------|--|
| Storage temperature | Circuit breaker: -55 ... +55 °C |
| Working temperature | Circuit breaker and relay: -25 ... +55 °C / Motor reconnection: -25 ... +70 °C |

External reset input for tripping

| | |
|------|---------------|
| Type | ON-OFF Remote |
|------|---------------|

Motor

| | |
|---------------------|---|
| On / off pulse time | Opening time: < 10 ms / Closing time: < 1000 ms |
| Nominal voltage | 230 / 380 V ~ |

Standards

| | |
|-----------|--|
| Standards | IEC 60947-2, IEC 60755, UNE-EN 55022, UNE-EN 55011, UNE-EN 55024 level 4, IEC 61000-4-11 |
|-----------|--|

Digital relay outputs

| | |
|--------------------|--|
| Nominal load in AC | 2500 VA |
| Nominal current | 5 A ~ |
| Maximum current | 10 A ~ |
| Electrical life | Magnetotérmico: 10000 maniobras / Motor reconexión: >20000 |
| Mechanical life | Magnetotérmico: >20000 operations |

Measurement accuracy

| | |
|---------------------------|------------|
| Phase current measurement | $\pm 20\%$ |
|---------------------------|------------|



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Differential protection

| | |
|-----------------------------------|--------------------------|
| Type | Type A ultra-immunised |
| Sensitivity ($I_{\Delta n}$), A | 0,03-0,1-0,3-0,5 (Setup) |
| Delay time (t_{Δ}) | Curve INS / SEL |

Protection

| | |
|----------------------|--|
| LED indication | Voltage presence Earth leakage tripping Reclosure timing |
| Measure | True root mean square (TRMS) |
| Circuit breaker type | Motorised circuit breaker MP-T series |

Thermal-magnetic protection

| | |
|---------------------------|-------------------|
| Trip curve, Type | C |
| Nominal current I_n (A) | 50 |
| Breaking capacity | 10 kA (IEC 60898) |
| Nominal voltage | 240 / 415 V ~ |

Reclosure type

| | |
|------------------|---|
| Reclosure number | Differential (15) / Circuit breaker (2) |
| Reset time | Diff & Magneto: 15 min |
| Reclosure time | Differential: 20 s, 40 s, rest 3 min / Circuit breaker: 3 min |

Certified and Approved by Telefónica Residual current relay with adjustable sensitivity (0.03 A, up to 0.5 A), adjustable delay (with curve, INS/SEL, or by time, from 0.1 to 1 s) and automatic reclosing system, 15 attempts by default (residual current) and 2 by the circuit breaker



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Dimensions

