

RGU-10 MT

RGU-10 MT, Reclosing residual current relay

Code: P24642.

> IΔn (A): 0,03 ... 30 A
> Delay: 0,02...10 s, INS, SEL
> Nr. reclosures: Programmable
> Time betwen reclosures: Programmable
> Breaking element: RECmaxMP | MT-FDE

Description

Electronic residual current protection relay of the **WGC** series connected to the external toroidal transformers of the **WG** / **WGS** / **WGC** series. It is connected to a motorized circuit breaker of the MT series or similar, as a circuit breaker. The self-reclosing can be programmed by residual current and/or circuit breaker trip. Super-immunised type-A relay with high-frequency current filtering and high immunity. True root mean square (TRMS) measure.

The backlit display shows the following information:

- Adjustment values
- Instantaneous leakage current

Features two independent outputs:

- Trip relay
- Interlocking relay for end of reclosing sequence

Other features:

- External input for remote-control functions (230 V~)
- Automatic test of the connection and external transformer status
- Optional RS-485 communication: type **RGU-10C MT**
- Compact size: 3 modules
- Assembly on **DIN 46277** rail (**EN-50022**).

Application

The **RGU-10 MT** relays associated with the transformers of the **WGC** series enable smart residual current protection. These are used jointly with an MV or similar circuit breaker to enable self-reclosing after a trip (circuit breaker and residual current reclosing), offering a very good solution for street lights, ATMs, refrigerating chambers, etc. Their design features guarantee maximum security and electrical service continuity, avoiding unwanted tripping.

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Specifications

AC power supply

Consumption	6 VA
Frequency	50/60 Hz
Nominal voltage	230 V~ (± 20 %)

Mechanical characteristics

Size (mm) width x height x depth	52.5 x 85 x 67.9 (mm)
Fastening	DIN rail
Weight (kg)	0,242

Environmental characteristics

Protection class	IP 20 (terminals), IP 41 (front)
Relative humidity (without condensation)	5 ... 95 %
Ambient temperature	-40 ... +85 °C
Working temperature	-10 ... +50 °C

External reset input for tripping

Type	Non-optocoupled, voltage-free

Standards

Electrical safety, Maximum height (m)	2000
Standards	IEC 61008-1, IEC 60755

User interface

Display type	Backlit LCD

Digital relay outputs

Nominal load in AC	2500 VA
Nominal current	6 A ~
Nominal voltage	250 V ~
Maximum current	10 A ~
Mechanical life	10×10^6

Differential protection

Type	Type A ultra-immunised
Sensitivity (IΔn), A	0,03 ... 3 / 5-10-30 (Setup)
Delay time (tΔ)	0.02 ... 10 s - Inverse curve: SEL/INS
Transformer	External, WG / WGS series



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Protection

Circuit breaker type	Motorised circuit breaker (with and without coil)

RGU-10 MT
Reclosing residual current relay for motorized circuit breakers

CODE	TYPE	IΔn (A)	Breaking element
P24642.	RGU-10 MT	0,03 ... 30 A	RECmaxMP | MT-FDE
P24652.	RGU-10C MT	0,03 ... 30 A	RECmaxMP | MT-FDE

The delay is cancelled in all relays with a sensitivity adjustment of 0.03 A, IEC 60947-2, annex M
INS, SEL trip curves, according to IEC 61008-1, for trigger coils with a trip time Requires a WGS/WGC residual current transformer (not included).
To operate with RECmax MP (in63 A)

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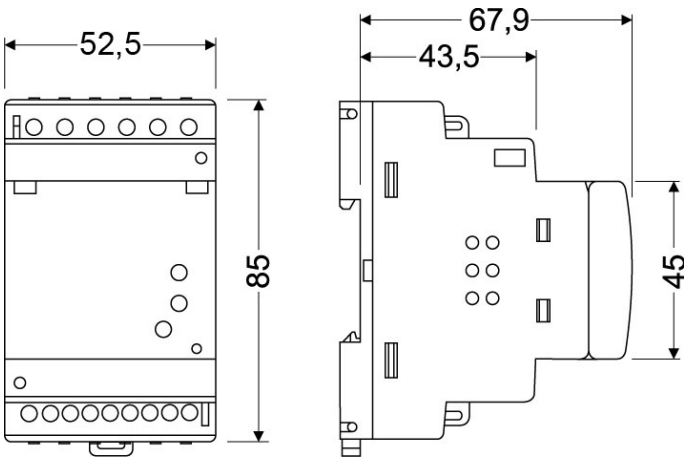


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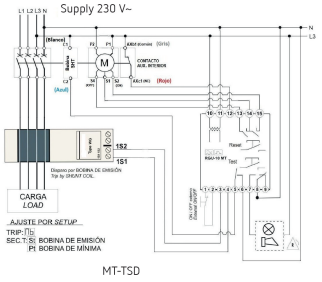
Electronic residual current relay

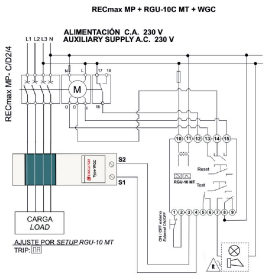
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Dimensions



Connections





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