



RGU2, Residual current relay

Code: P11A61.

> Módules: 2

> N° relays: 1

> I∆n (A): 0,03 ... 5 A

> Power supply (Vac): 120...230 Vac > Delay: 0,1 ... 5 s, INS, SEL (*1)(*2)

> Mounting: DIN rail

Description

Electronic industrial residual current protection relay, compatible with the WGC series protection

Ultra-immunised type-A relay, with high-frequency current filtering and high immunity. True root mean square (TRMS) measure.

- o Programmable with backlit LCD display:
- o Sensitivity and trip time
- Output contact status.
- o Protection status messages.
- o Real-time level of leakage.
- LED bar showing the percentage leakage current measured by the unit.
- o Features two independent programmable outputs (main and prealarm / relay fault).
- Assembly on **DIN 46277** rail (**EN 50022**), 2 modules.
- Locking the programming menu with the keyboard or by sealing the PROG button.
- o RCM and MRCD in the same unit (see connections)

Application

The RGU-2 relays associated with WGC transformers offer smart and robust residual current protection against all types of unwanted tripping. Since these residual current relays only take up 2 modules of space, include an LCD display, a bar LED and are fully programmable, they are essential for protecting people and for preventive maintenance of the installations.







Electronic relay for residual current protection and monitoring

Code: P11A61.

Specifications

AC power supply, insulation		
Pulse test (kV)	4kV	
AC power supply		
Installation category	CAT III 300 Vac (IEC 61010)	
Consumption	6 VA	
Frequency	50/60 Hz	
Nominal voltage	120 230V ~	
Mechanical characteristics		
Size (mm) width x height x depth	35 x 112 x 84 (mm)	
Envelope	Polycarbonate VO	
Fastening	DIN rail	
Weight (kg)	0,14	
Environmental characteristics		
Protection class	IP 40	
Relative humidity (without condensation)	5 95 %	
Storage temperature	-25 +70 °C	
Working temperature	-10 +50 °C	
Current measurement circuit		
Transformation ratio	Transformer type TP-WG, WG o WGC de 500/1	
Standards		
Electrical safety, Maximum height (m)	2000	
Electrical safety, Contamination level/class	Pollution resistance 2	
Standards	IEC 60947-2 Anexo M, IEC 62020	
Other digital relay outputs		
Thermal current (Ith)	5 A	
Maximum switching capacity	1250 VA, 150 W	
Insulation voltage	2000 V ~	
Maximum open contact voltage	1000 V ~	
Electrical life	105 (a 3 A)	
Digital relay outputs		
Thermal current (Ith)	10 A	
Insulation voltage	2500 V ~	







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Maximum open contact voltage	1000 V ~	1000 V ~	
Electrical life	30×10^{3} (a 3 A)	30 x 10 ³ (a 3 A)	
Maximum switching capacity	2500 V ~	2500 V ~	
Measurement accuracy			
Phase current measurement	< 10 %	< 10 %	
Differential protection			
Туре	Type A ultra-immunised		
Sensitivity (I∆n), A	0,03 5	0,03 5	
Delay time (t∆)	0,01 5 s	0,01 5 s	
Transformer	External, WGC series	External, WGC series	
Protection			
Measure	True root mean square (TRMS)	True root mean square (TRMS)	

RGU-2 Programmable residual current relay, 2 modules with display and static prealarm output

CODE	TYPE	N° relays	ΙΔη (Α)
P11A61.	RGU2	1	0,03 5 A

Contactor or Circuit Breaker + trigger coil

Requires a WGC residual current transformer.

Circuit breaker type







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Dimensions

Connections





