



WGB-35-TB30, Residual current relay

Code: P16111.

> Usefull diam.(mm): 35

> Delay: INS

> Sensitivity: 30 mA

## Description

Residual current protection device for the protection of people and property against fault currents, such as:

- $\circ\;$  Sinusoidal alternating currents and pulsating residual direct currents..
- o Sinusoidal alternating currents, up to 1 kHz.
- Direct currents

For installations up to 125 A and sensitivities of 30 or 300 mA. INStantaneous/SELective activation of the circuit breaker, circuit breaker with fast trigger coil or contactor.

## **Application**

All electrical installations where process continuity is critical and protection of persons (30 mA) and machines (300 mA) is required, with non-adjustable immediate or SELective activation.

- Computer systems (UPS systems)
- o Speed drives
- O Photovoltaic installations
- Electric Vehicle Charging systems







Transformer with built-in residual current relay (Class B)

Code: P16111.

## **Specifications**

AC power supply	
Consumption	6 VA
Frequency	50 60 Hz
Nominal voltage	230V ~ ± 20%
Mechanical characteristics	
Size (mm) width x height x depth	166 x 79 x 48 (mm)
Envelope	Polycarbonate V0
Weight (kg)	0,25
Environmental characteristics	
Protection class	IP 40
Relative humidity (without condensation)	5 95 %
Storage temperature	-15 +55 °C
Working temperature	-10 +50 °C
Specific technical characteristics of current sensors	
Trigger point setting	85 % of nominal earth leakage current
Harmonic filtering	2nd order filter (Fc = 400 Hz)
Waveform measurements	2nd order filter (Fc = 400 Hz)
Inner diameter Ø (mm)	35 mm
Trip point tolerance	± 15 %
Current measurement circuit	
Nominal current (In)	63 A
Standards	
Electrical safety, Maximum height (m)	2000
Standards	IEC 60755, IEC 62423, IEC 60947-2-M
User interface	
LED	2 LED
Keyboard	2 keys
Digital relay outputs	
AC11 le/Ue	6 A / 250 V
Electrical life	30 x 10 <sup>3</sup> (250Vca / 5A)
Mechanical life	5 x 10 <sup>6</sup>







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Maximum switching capacity 1500 W (AC1)

#### Differential protection

Туре	Туре В
Sensitivity (IΔn), A	0,03
Delay time (tΔ)	INS
Transformer	Built-in earth leakage transformer, 35 mm

#### Protection

LED indication	Power supply voltage Earth leakage tripping
Circuit breaker type	Magnet with fast trigger coil or contactor

#### WGB-35-TB

Relay Type B built-in residual current transformer

CODE	TYPE	Inner diameter (mm)	Sensitivity	Delay
P16111.	WGB-35-TB30	35	30 mA	INS
P16121.	WGB-35-TB300	35	300 mA	INS
P16131.	WGB-35-TB300S	35	300 mA	SEL







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#### Dimensions

## Connections







