

Residual current relay type B with separate toroid



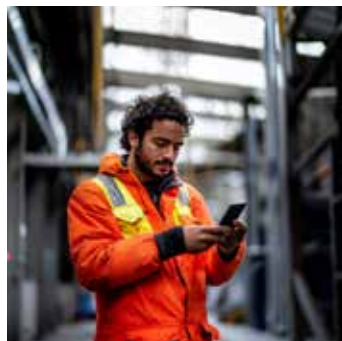
Type B residual current protection is essential for the electrical safety of modern facilities, especially with advanced electronic devices and complex industrial machinery. Compared to AC or A-type circuit breakers, type B is able to detect fault currents in both alternating and direct current, the key element to increase the level of electrical system protection, ensure staff safety and comply with regulations in force.

Advantages



Simple wiring

The use of one single external toroid simplifies connection operations and reduces the space inside the electrical distribution board.



Reset by remote

After automatic trip, the usual working conditions of the device can be reset by remote thus saving time and costs.



Pre-alarm signalling

The device is able to signal in advance a potential and upcoming power failure due to a fault, allowing to plan in time interventions to improve safety.



Digital display

The high-contrast display shows simultaneously settings, measurements and alarm/fault conditions thus allowing a comprehensive view of the working status.

Applications

City Landscape

Electric vehicle charging



Office

Hospitality

Frequency converters for AC motors supply



Industry

AC/DC converters
DC/AC converters



Healthcare

Electromedical instruments



Functions & technical features

DIN rail device

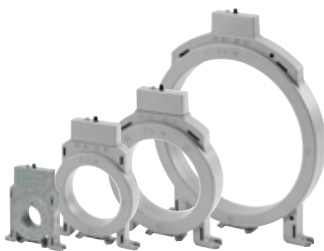


- + Green LED for usual operation signalling (fixed-ON) or pre-alarm (flashing-ON) to help the operator to understand quickly the status of the system.
- + Separate red LED dedicated only to signal the intervention due to a fault in the system, to guarantee the safety of assets and people.
- + Cover ready to be sealed to avoid tampering with the chosen settings. Accessibility of the Test and Reset buttons always guaranteed by means of a screwdriver in order to allow in every moment the functionality of the device even with the cover closed.
- + Total view of the operational status by means of a single screen, which includes both information on the settings chosen for the device (top part) and the measurement values of the system with icons for alarm signals (bottom part).

Code:	GW96331B
Reference standard:	EN 60947-2 annex M
Rated operating voltage (Ue):	230 V a.c.
Rated insulation voltage (Ui):	300 V a.c.
Rated impulse withstand voltage (Uimp):	4 KV
Rated frequency:	50/60 Hz
Adjustable residual operating current (I_{dn}):	0,03 - 0,1 - 0,3 - 0,5 - 1 - 3 - 5 - 10 A
Adjustable tripping time (t):	0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,75 - 1 - 5 - 10 s
DIN modules length:	3
Connection with rigid and flexible cable:	≤ 2,5 mm ²
Rated tightening torque:	0,5 Nm
Operating temperature:	-5...+40 °C ⁽¹⁾
Pre-alarm signaling output contact type:	Change-over (250V 10A AC1)
Fault signaling output contact type:	Change-over (250V 10A AC1)

⁽¹⁾ Average daily temperature not exceeding 35°C

Separate toroids



- + The wide range of toroids, available in various diameter sizes and equipped with a specific magnetic core for the detection of AC/DC fault currents, allows to satisfy the several system requirements depending on the operating power and cable section.

Code	Internal Diameter	Max Current	Max cable section (3F+N)
GW96332B	35 mm	160 A	16 mm ²
GW96333B	80 mm	320 A	70 mm ²
GW96334B	110 mm	450 A	100 mm ²
GW96335B	210 mm	720 A	2x185 mm ²