Protection earth leakage

"si" and "SiE" type, A & AC class RCCB 10mA, 30mA, 100mA, 300mA and 500mA instantaneous 100mAS, 300mAS, 500mAS

Function

Residual current circuit-breakers ensure:

- The control and isolation of electrical circuits
- The protection of persons against direct and indirect contacts
- The protection of installations against insulation faults

They conform to both the residual current device standard BS EN 61008 and to switch standards BS EN 60947-1 and BS EN 60947-3. Residual current circuit-breakers are used in the housing, commercial and industrial sectors.

AC class

Tripping is ensured for sinusoidal, alternating currents, whether they be quickly applied or slowly increase.

A class

Tripping is ensured for sinusoidal, alternating residual currents as well as for pulsed DC residual currents, whether they be quickly applied or slowly increase. Application: loads with electronics, rectifiers, instruments.

"si" type

Reinforced continuity of supply on disturbed networks with:

- A high risk of nuisance tripping:
- □ Successive lightning strokes
- □ IT earthing system
- □ Variable speed controllers, frequency converters
- □ Presence of electronic ballasts
- □ Presence of switchgear that incorporates interference filters i.e. lighting, microcomputing, etc
- Sources of blinding:
- □ Presence of harmonics or high frequency rejection
- □ Presence of DC components: diodes, thyristors, triacs
- Low temperature

"SiE" type

The RCCB "SiE" types are particularly suitable for use in humid environments and/or environments polluted by aggressive agents, for example swimming pools, marinas, the food-processing industry, water treatment plants, industrial sites. They also incorporate RCCB "si" functions.

Instantaneous

It ensures instantaneous tripping (no time-delay).

Selective S

Total discrimination can be achieved using a non-selective residual current device placed downstream.

Description

The residual current trip unit is electromechanical. It functions without an auxiliary source.

Technical data

Voltage rating	230400 V AC, -15+10 %
Frequency rating	AC and A classes: 50/60 Hz
	"si" and "SiE" types: 50 Hz
Current rating (Ith) at 40 °C	16100 A
As in IEC 61008	Breaking and making capacity
	Rated residual (I∆m): 2.5 kA
	Rated (Im): 1.5 kA
As in IEC 60947-3:	Isolation with positive break indication, opening is
	indicated by a green strip on the device operating
	handle. This indicator shows that all poles are open.
	Rated impulse withstand
	Voltage (Uimp): 6 kV
	Insulation voltage (Ui): 440 V
	Utilization category:
	AC 23A rating \leq 63 A
	AC 22B ratings 80 and 100 A