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
- $\hfill\square$ 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 ≤ 63 A		
	AC 22B ratings 80 and 100 A		

Technical Dimensions Section 9 Section 10

Protection earth leakage

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

Description cont
☐ Padlocking in the "tripped" position is possible using the padlocking device (no
supplied)
Protected against nuisance tripping due to transient overvoltages (lightning, switchgear operation on the network, etc.)
■ Impulse withstand level 8/20 µs:
□ AC and A classes:
- 250 A for instantaneous
- 3 kA for s
☐ "si" and "SiE" type:
- 3 kA for instantaneous
- 5 kA for s
■ Short-circuit current withstand (I∆c = Inc): 10 kA with 100 A fuse upstream ■ Number of operations (O-C): 20 000
■ Trip units with fixed sensitivities for all ratings:
☐ Instantaneous trip unit
☐ Selective trip unit with 50-70ms delay: total vertical selectivity can be achieved using 30 mA residual current devices placed downstream
■ Indication:
☐ Mechanical: earth fault indication on front panel by means of a mechanical indicator
☐ Electrical: using auxiliaries
■ Remote tripping: using auxiliaries
■ Environment:
☐ Tropicalisation: treatment 2 (relative humidity 95 % at 55°C)
☐ Operating temperature: - AC class: -5+40°C
- A class, "si" and "SiE" type: -25+40°C
☐ Storage temperature: -40+60°C

Weight (g)	2P	3P	
	230	450	

- Terminal size 35mm² up to 63amp. 50mm² up to 80 and 100 amps
- Connection using tunnel terminals for flexible 35mm² cable or rigid 50mm² cable
- Can be directly connected using comb busbars
- Conform with standards:
- ☐ BS EN 61008
- ☐ BS EN 60947-1
- ☐ BS EN 60947-3

Protection earth leakage

AC class RCCB

10mA, 30mA, 100mA, 300mA and 500mA instantaneous 100mAS, 300mAS, 500mAS

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AC class R	CCB resi	dual cι	ırrent circ	uit breakers	
Туре	Voltage	Rating	Sensitivity	Part	Width in
	(V CA)	(A)	(mA)	number	18mm
					SP ways
2P	230	16	10	RMG 160102	2
		25	10	RMG 250102	2
			30	RMG 250302	2
			300	23011	2
			500	23012	2
		40	30	RMG 400302	2
			100	23015	2
			300	RMG 403002	2
			500	23017	2
		63	30	RMG 630302	2
			100	RMG 631002	2
			300	RMG 633002	2
			300 S	23028	2
			500	23022	2
			500 S	23029	2
		80	30	RMG 800302	2
			100	RMG 801002	2
			300	RMG 803002	2
			100 S	23111	2
			500	23026	2
			500 ছ	23033	2
		100	30	RMG 100032	2
			100	RMG 1001002	2
			100	RMG 1001002s	2
			300	RMG 1003002	2
			300 🗉	23116	2
4P	230/400	00 25	30	RMG 250304	4
			300	RMG 253004	4
			500	23041	4
		40	30	RMG 400304	4
			100	23536	4
			300	RMG 403004	4
			300 🗟	23062	4
			500	23046	4
			500 S	23063	4
		63	30	RMG 630304	4
			100	RMG 631004	4
			300	RMG 633004	4
			300 S	23146	4
			500	23051	4
			500 S	23067	4
		80	30	23061	4
			300	23054	4
			300 S	23069	4
			500	23055	4
			500 S	23070	4

100

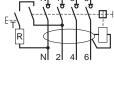
300

300 S

23213

23227





Technical	Dimensions
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