Protection earth leakage



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RCCB 25...125 A B type 30 mA, 300 mA and 500 mA instantaneous, 300 mAS

Description B type \widehat{n}

The RCCB B type residual current circuit-breakers provide specific protection of three-phase installations and people even in the presence of DC fault currents on the network generated by:

- Three-phase controllers and variable speed drives
- Three-phase battery chargers and inverters
- Three-phase backed-up power supplies

They are a requirement for three-phase supplied applications, when class I equipment installed downstream from the RCCB are likely to produce DC

They include and also guarantee protection against fault currents:

- Sinusoidal AC residual currents \sim (AC type)
- Pulsed DC residual currents ഹ (A type)

They can be adapted, without exception, to all the application cases defined in standards IEC 60364 and EN 50178.

The B type RCCB combination with variable speed drives of the Telemecanique brand has been successfully tested and validated.

Instantaneous

It ensures instantaneous tripping (without time delay).

Selective S

It ensures total discrimination with a non-selective RCD placed downstream.

Technical data

l'echnical data	
Compliance with standards	IEC 61008, EN 61008, VDE 0664
Voltage rating	230/400 V AC, +10%, -15%
Frequency rating	50 Hz
Current rating (In)	25, 40, 63, 80 or 125 A
Making and breaking	10 In with 500 A minimum
capacity, rated residual	
current (l∆m = lm) as per	
standard IEC 61008	
Protected against nuisance t	ripping due to transient overvoltages (lightning stroke,
device switching on the netv	
Level of immunity in	250 A for instantaneous
8/20 µs wave	3 kA for S
Tripping time	l∆n: ≤ 300 ms
	5l∆n: ≤ 40 ms
Short-circuit current	See the circuit breaker or fuse coordination table
withstand (I $\Delta c = Inc$)	with B type RCCB
Number of operating	Mechanical: > 5 000
cycles (O-C)	Electrical: > 2 000
Releases with fixed	Instantaneous release
sensitivities for all ratings	Selective release S: allows total vertical
	discrimination with the 30 mA RCDs placed
	downstream
Test button	Checks proper operation of the tripping mechanism
	Working range: 185440 V AC
Indication of RCCB status	By 3-position toggle and mechanical indicator on the
	front face:
	closed (red indicator)
	tripped on fault (red indicator)
	open (green indicator)
	By OFsp auxiliary switch (optional)
Tropicalisation	Treatment 2 (relative humidity 95% at 55°C)
Operating temperature	-25°C to +40°C
Storage temperature	-40°C to +60°C
Weight (g)	500
Degree of protection	IP40 on front face
	IP20 at terminals
Connection by	Flexible or rigid cable: 1 x 1.5 to 50 mm ² or
tunnel terminal	2 x 1.5 to 16 mm ²

Section 9	Section 10
Technical	Dimensions

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