



Rated residual action current 0.03 A / 0.1 A / 0.3 A • IEC/EN 61009-1

- Fork and pin busbar connection (top/bottom)
- With leakage fault indication
- Mounting on TH DIN35 rail
- Connection capacity 1–25 mm²
- Recognitions, certifications: CE, RoHS 2.0

RCB residual current circuit breaker is intended for AC 50/60 Hz circuits with a rated voltage of 230 V (2-pole version) or 400 V (4-pole version) and a rated current up to 40 A lines. A residual current device (RCD) automatically and rapidly disconnects the circuit power supply when the residual (leakage) current exceeds its rated residual operating current (IΔn). In doing so, it provides protection against electric shock. A device with an IΔn ≤ 30 mA also provides supplementary protection against direct contact. It further protects the installation against the effects of leakage currents, including fire. In addition, it can be used for overload and short-circuit protection of the line, as well as for infrequent on-off operation under normal circumstances.

Circuit breakers are suitable for various occasions such as industrial, commercial, high-rise, and residential use.

Technical Specification

Rated Voltage (U_n)	230/400 V
Rated Current (I_n)	6, 10, 16, 20, 25, 32, 40 A
Rated insulation voltage (U_i)	500 V
Rated impulse withstand voltage (U_{imp})	4 kV
Rated residual action current ($I_{\Delta n}$)	0.03 A; 0.1 A; 0.3 A
Poles	1P+N; 3P+N
Residual current action type	Type A; Type AC
Working Frequency	50/60 Hz
Trip Curve	B, C, D
Rated limit short circuit current (I_{nc})	6 kA
Rated limit Remaining short circuit current ($I_{\Delta c}$)	6 kA
Rated on and off capacity (I_m)	500 A
Rated residual switching and breaking capacity ($I_{\Delta m}$)	500 A
Tightening moment	2.0 N·m
Class of protection	IP20
Mechanical life	20 000 times
Electrical life	4 000 times
Connection capacity	1–25 mm²
Mounting modes	TH DIN35 rail mounting

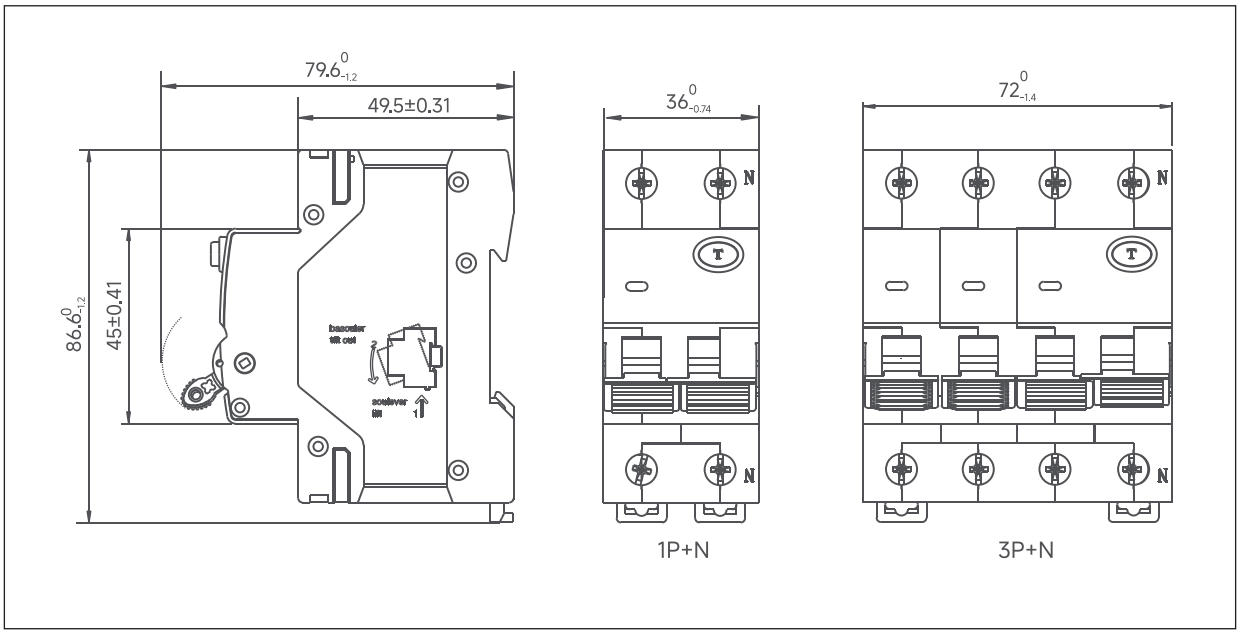
Residual leakage current breaking time

Rated current I_n (A)	Rated residual action current $I_{\Delta n}$ (mA)	Residual current breaking time (s)				
		$I_{\Delta n}$	2 $I_{\Delta n}$	5 $I_{\Delta n}$	5 A–200 A	500 A
6–40	30; 100; 300	≤ 0.1	≤ 0.08	≤ 0.04	≤ 0.04	≤ 0.04

19.08.2026

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Outline Overall And Installing Dimensions

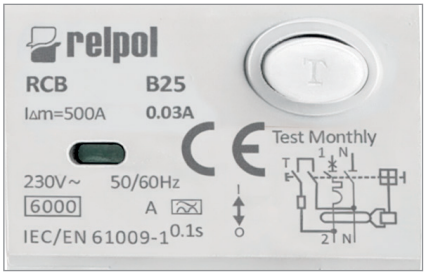


Dimensions are given in millimetres. Mounting width depending on version:

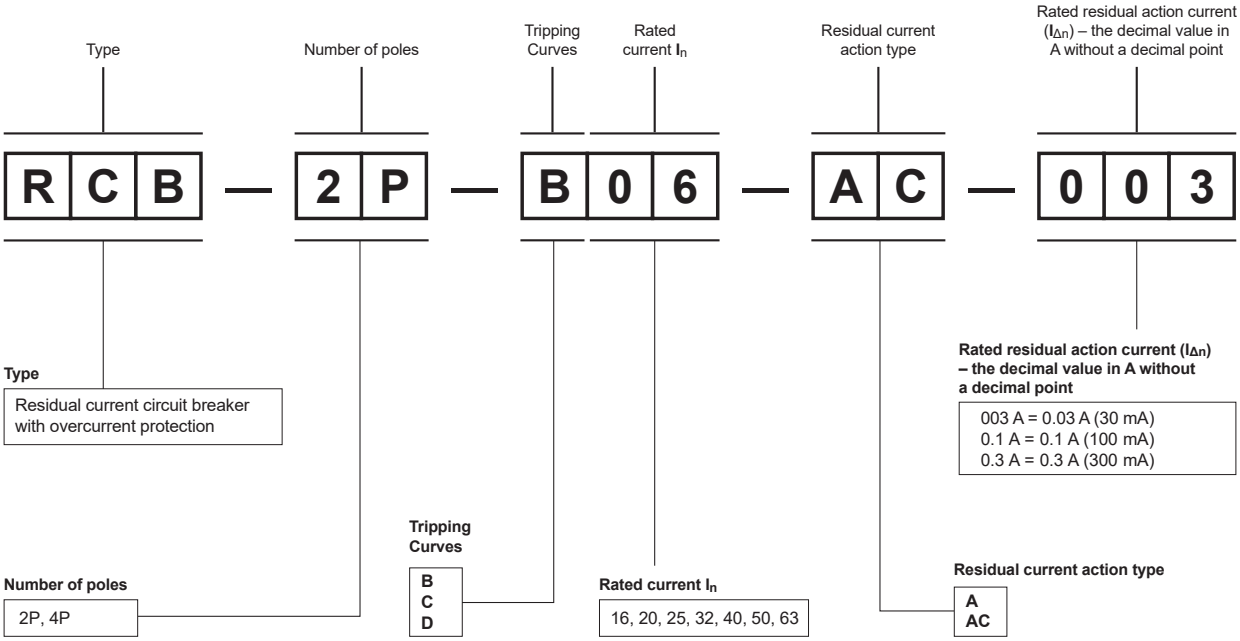
1P+N	3P+N
36 mm (2 modules)	72 mm (4 modules)







Ordering codes



Examples of ordering codes:

RCB-2P-B50-AC-003 Residual current circuit breaker with overcurrent protection, I_{cn} = 6 kA, 1P+N, curve B, I_n = 50 A, $I_{\Delta n}$ = 30 mA, type AC

RCB-4P-B10-A-003 Residual current circuit breaker with overcurrent protection, I_{cn} = 6 kA, 3P+N, curve B, I_n = 10 A, $I_{\Delta n}$ = 30 mA, type A

PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. **2.** Never touch any live parts of the device. **3.** Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. **4.** In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.