Fault protection

“Protection against indirect contact”

Protects people in the event of contact with extraneous electrically conductive parts (such as heating, water pipe) through automatic power shutdown – if a risk exists as a result of a fault due to the magnitude or duration of the touch voltage.

Additional protection

“Protection in case of direct contact” with $I_{\Delta n} = 30\, \text{mA}$

Protects individuals if they come into direct contact with an active live part under normal operation conditions if the basic and/or fault protection fails.

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Preventing electrical accidents

siemens.com/rccb

773 reportable electrical accidents per year*

nearly 90% of electrical accidents occur in the low-voltage range*

*) Source: BG ETEM (2014) statistics of electrical accidents in Germany

In the event of a fault, residual current protective devices (RCDs) reliably disconnect power to protect humans.
The right type

When to use which residual current circuit breaker (RCCB)?

Before connecting electrical equipment to a network with residual current operated devices, the compatibility should be checked:

- Can the equipment generate smooth DC residual currents?
- Can the equipment generate residual currents consisting of a frequency mixture?

Standard-compliant protection with protection devices from Siemens

5SV3 RCCB SIQUENCE, type B/B+

Reliable recording of:
- sinusoidal alternating currents
- pulsating DC residual currents
- electrical loads with frequency converters in the single-phase alternating currents
- smooth DC residual currents

+ Integrated condensation protection ensures maximum safety and a long service life even under harsh conditions such as gases or moisture in the ambient air
+ The extended inspection period of 24 months reduces costs and efforts

Better to play it safe!