
PROTECTION AND CONTROL

# RECB

## Type B self-reclosing RCCB

# Why use type B earth leakage protection?

In recent years the use of loads with power electronics has become widespread. Type B earth leakage protection is the only protection that safeguards people and loads against AC, DC and AC/DC leakage.

Type A and AC earth leakage protection devices do not detect continuous residual currents, which are so common in loads from variable speed drives, UPS's, EV chargers, photovoltaic installations, etc.

**AC type protection**
Sinusoidal alternating current

**Type A protection**
Sinusoidal alternating current
Pulsating alternating current

**Type B protection**
Sinusoidal alternating current
Pulsating alternating current
Direct current

Load types with DC components

Variators

UPS

Active Filters

Electric vehicle charging

Non-B type earth leakage protection devices become more sensitive when a pulsating earth leakage current is coupled with a direct current. In such cases, protection fails to work properly, jeopardising service continuity and appropriate safety, **thereby putting the installation and personnel at serious risk.**

# RECB

## Type B self-reclosing RCCB

**RECB** is a 4-pole circuit breaker combined with a smart reclosing motor, enabling automatic, safe reclosure of the RCCB in 3 attempts.



- Space saving
- Guaranteed service continuity
- Plug & Play. Fixed sequence
- Fast status control

# Maximum continuity, minimum space

**TEST**

Test button to test the device.


**LED indicator**

Indications for:

- ON
- Tripped
- Reclosing

**Multifunction Mechanism**

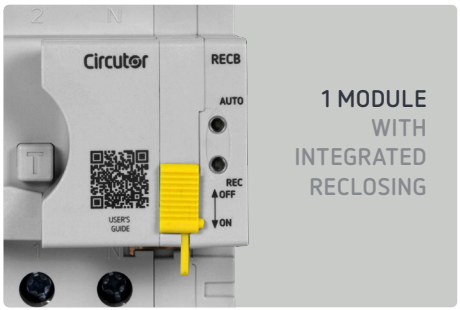
Mechanism at the front to enable ON/OFF, resetting of the reclosure meter and device locking.

**Compact and modular**

The **RECB** is a compact device to be installed as an RCCB.There is no need to interconnect the motor and the RCCB.


## Compact and easy to install

Fully integrated, compact, easy to install device requiring no additional wiring for automatic reclosure.

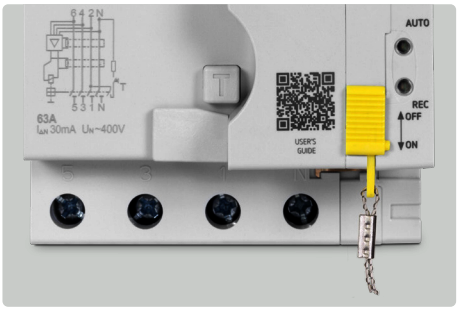



## Timed reclosing system

The device tries to directly reclose up to 3 times after standby time (3, 20 and 180 seconds), guaranteeing maximum service continuity without jeopardising electrical safety.

## Lockout and safety

Possibility to override reclosing using the device's ON/OFF switch at the front of the motor. The device has a locking system to control operation in manual or automatic mode (reclosing enabled). **Sealable.**



# Applications

**RECB** protects all electrical installations requiring full electrical service continuity in the event of unforeseen incidents that cause the RCCB to trip for reasons other than electrical insulation:

Conveyor belts

Electric vehicle charging points, photovoltaic installations, etc.

Telecommunications, Data Centres, etc.

Industrial sectors, control of critical production processes, lifts / elevators, etc.

## Technical specifications

| | | |
|---|---|---|
| **Protection** | Type | Class B RCCB |
| | Sensitivity, $I_{\Delta n}$ | 30 or 300 mA |
| | Trip delay, $t_{\Delta}$ | Instantaneous |
| | Nominal current, $I_n$ | 40 or 63 A |
| | Number of poles | 4 poles |
| | Test | Push-button built into the switch |
| | Reset | ON/OFF mechanism on the front of the motor |
| | Associated circuit breaker | RCCB |
| **Reclosing system** | Reclosure number | 3 |
| | Reclosure time | 3, 20, 180 s |
| | Reclosing meter reset time | 10, 20, 60 s |
| | Reclosing cancellation | ON/OFF mechanism on the front of the motor Sealable. |
| **Electrical characteristics** | Operating voltage | 230/400 V ac |
| | Auxiliary power supply | 230 Va.c. ±20% 50/60 Hz |
| | Operating temperature | - 25... +55 °C |
| **Use** | Single phase (F + N) | 230 Va.c. |
| | Three phase (III + N) | 230/400 V ac |

| Code | Type | Reclosing mode | $I_n$ | Sensitivity |
|---|---|---|---|---|
| **RECB-4P-40-30** | **P26G21.** | Time | 40 A | 30 mA |
| **RECB-4P-40-300** | **P26G23.** | Time | 40 A | 300 mA |
| **RECB-4P-63-30** | **P26G31.** | Time | 63 A | 30 mA |
| **RECB-4P-63-300** | **P26G33.** | Time | 63 A | 300 mA |

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