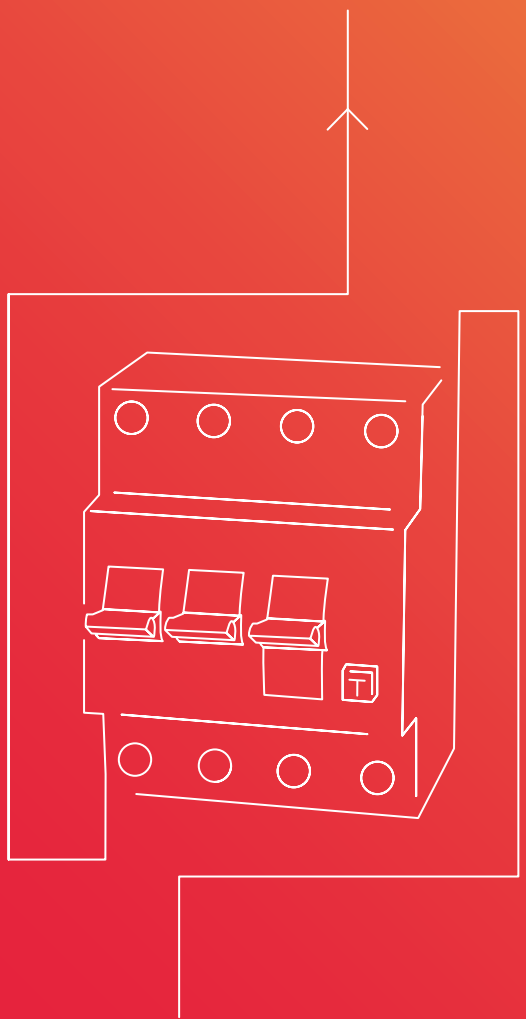
Doepke

Compact dual protection DRCBO:

RCCB/MCB combinations for protecting people and systems

- only 2 or 2,5 SU in two-pole version und 4 or 4,5 SU in four-pole version
- easy troubleshooting and high system availability
- high short-circuit resistance
- easy installation and removal due to locking slider
- available in many variants
- therefore ideally suited for residential, commercial and industrial use



The safest way to use electricity.

Smart decision:
DRCBO – RCCB/MCB combinations from Doepke

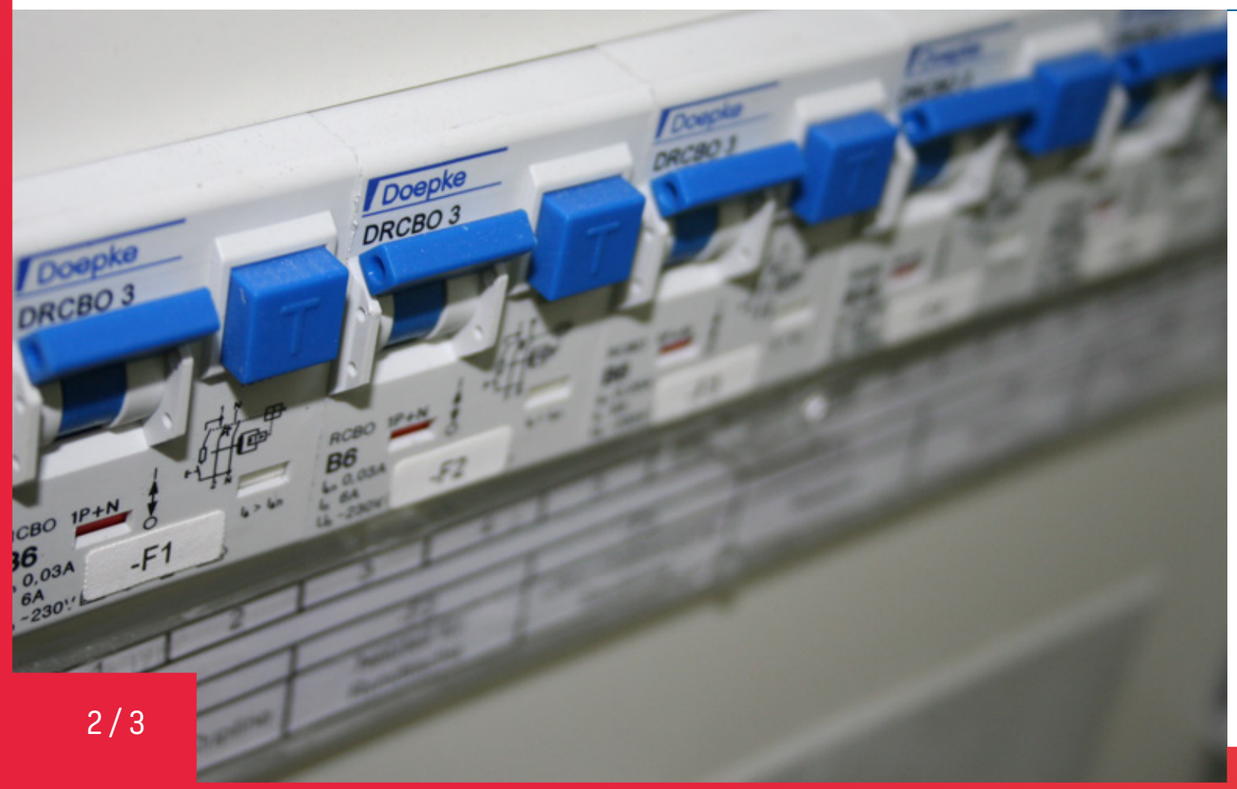
RCBOs combine residual current circuit-breakers and miniature circuit-breakers and thus offer double safety with a small footprint. Compact in one device, they protect people from residual currents and systems from overloads and short circuits.

Residual current devices are required by IEC 60364-4-41 for socket and lighting circuits. With the compact alternative, the DRCBO, electrical systems can be divided up so that only the affected circuit is switched off in the event of a fault. This is an advantage in private households if, for example, appliances such as air conditioners or freezers can continue to run. In the commercial and industrial sector, RCCD/MCB combinations increase system availability and thus save costs. Thanks to their contact position and residual current tripping display, the DRCBOs from Doepke make troubleshooting much easier for qualified electricians.

The DRCBOs differ in their suitability for different types of residual currents, in the tripping characteristics of the line protection and, depending on the version, have a short-time delay for even better availability of the electrical system.

DRCBO 1

- electronic, voltage-dependent RCCB/MCB combination
- especially compact: only 1 DU
- for British Standard switchgear
- available as residual current type AC (only sinusoidal AC residual currents) and A (pulse and alternating current sensitive) and with tripping characteristics B and C
- rated currents 6 A to 45 A
- rated short-circuit current 10 kA



DRCBO 2

- two-pole for networks without neutral conductor
- two overcurrent releases for all-pole protection against overcurrents
- mains voltage-independent protection against pulse and AC residual currents (residual current type A)
- available with tripping characteristic B (standard protection for light and socket circuits) and C (ideal for circuits with high inrush or peak currents)
- available as an optional short-time delayed (KV) version or with alternative overcurrent characteristic (AK)
- the AK types fulfil the requirements of the tripping characteristics of the Norwegian electronic standard NEK 400-8-823
- rated currents up to 6 A to 40 A
- rated short-circuit current up to 10 kA
- top and bottom wiring levels

DRCBO 3 AC

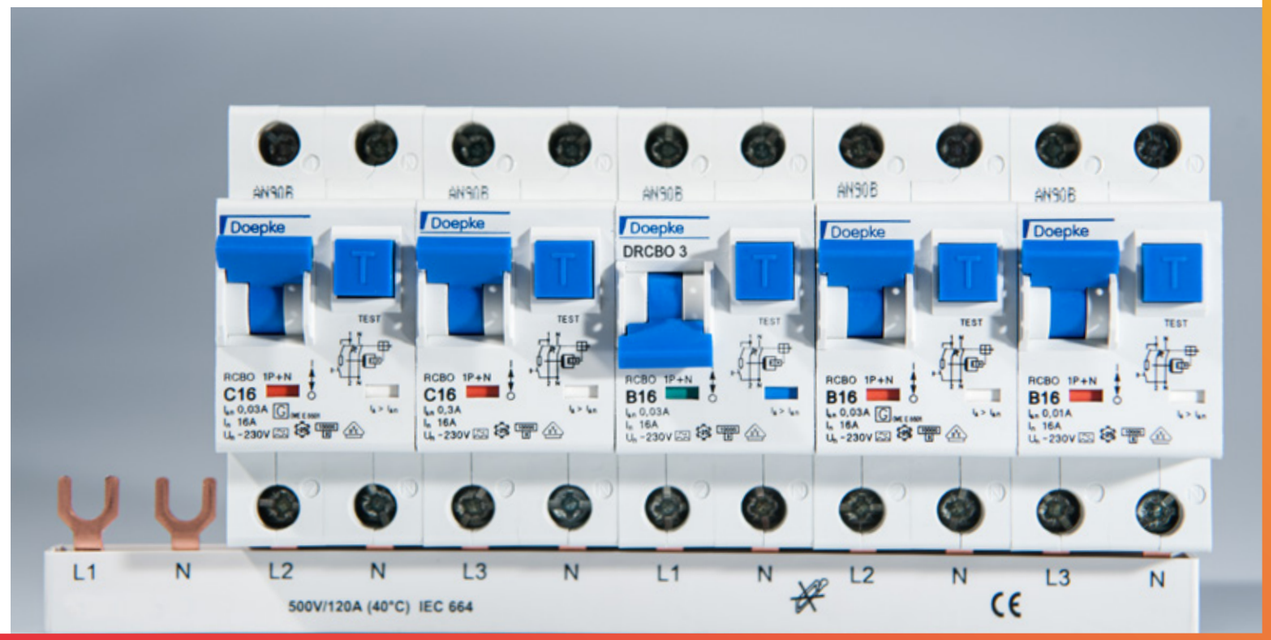
- mains voltage-independent protection against purely sinusoidal AC fault currents
- suitable for circuits with only sinusoidal AC residual currents
- no longer approved in Germany
- available in tripping characteristic B (standard protection for light and socket circuits) and C (ideal for circuits with high inrush or inrush or peak currents)
- with rated residual currents 10 mA, 30 mA und 300 mA
- rated currents up to 40 A
- rated short-circuit current 10 kA

DRCBO 3 A and DRCBO 4 A

- mains voltage-independent protection against AC residual currents and pulsating DC residual currents of the mains frequency
- classic residual current protection in residential and functional buildings
- ideal for socket circuits and classic lighting
- available with tripping characteristics B and C
- available in an optional short-time-delayed and weatherproof version (KV)
- with rated residual currents of 30 mA, 100 mA and 300 mA
- rated currents up to 40 A
- rated short-circuit current 6 kA, 10 kA

DRCBO 3 F

- protection against pulse and AC residual currents as well as residual currents with mixed frequencies deviating from 50 Hz
- ideal mordern and future-proof protection for households and businesses
- for circuits in which loads with single-phase frequency inverters or switching power supplies are used (washing machines, heating and heat pumps, PCs, mobile phone or laptop chargers etc.)
- short-time delayed and weatherproof: react due to a response delay only to residual currents with a duration of more than half a period of the mains frequency
- available in tripping characteristics B and C as well as D (for circuits with highly inductive load such as lamp groups or power transformers)
- with rated residual currents of 30 mA, 100 mA and 300 mA
- rated currents up to 40 A
- rated short-circuit current 10 kA



DRCBO 4 B SK

- protection against pulse and AC residual currents, residual currents with mixed frequencies and smooth DC residual currents (= AC/DC sensitive from 0 to 150 kHz)
- for circuits connected to loads with electronic devices for power control, e.g. multi-phase frequency inverters or other power inverters (air conditioning and ventilation systems, photovoltaic systems, cranes, pump systems and many electrical appliances on construction sites)
- short-time delayed and weatherproof
- available with tripping characteristic B SK for high system availability
- with rated residual currents of 30 mA, 100 mA and 300 mA
- rated currents up to 32 A
- rated short-circuit current 6 kA
- rated currents up to 32 A

New: compact design

DCRBO 4 B SK

2,5 instead of 4 SU

DCRBO 4 B SK

4,5 instead of 6 SU

DRCBO 4 B NK

- for installations at risk of fire (preventive fire protection up to max. 150 kHz, upper tripping limit up to max. 300 mA)
- tripping threshold for residual current frequencies above 1 kHz 300 mA
- residual current detection range up to 150 kHz

DRCBO 4 B+

- AC/DC sensitive
- designed for installations at risk of fire
- fire protection up to max. 20 kHz
- upper tripping limit 420 mA
- short-time delayed and weatherproof
- with rated residual currents of 30 mA, 100 mA and 300 mA
- rated currents up to 32 A
- rated short-circuit current 6 kA

PREMIUM MARKEN Partner

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