Residual current operated circuit-breakers
with integral overcurrent protection

Doepke

Safety compact

RCBO —— space-saving installation
———— separate indication of fault cause
———— DRCBO 3 can be easily detached from the connector, even with a fitted busbar
———— also available in lightning-resistant design

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More space, optimal system protection

RCBOs, created by combining a miniature circuit-breaker and with a residual current circuit-breaker, are the first choice for reliably protecting electric circuits in residential and purpose-built buildings in case of short circuits, overloads, or in the event of fault currents, while also saving space. Regardless of the network configuration in question, the compact RCBOs reliably switch off the affected circuit when dangerous earth fault currents arise.

The great advantage of Doepke's RCBO: thanks to the compact design, electrical installations can be partitioned in such a way that only the faulty circuit is switched off whenever a fault current is detected, or if there is an overload or short-circuit. This simplifies the troubleshooting process, increases the system's availability and also reduces costs in the process. The FIB and FIC RCBOs are the ideal choice for any fixed installations where AC-DC sensitive apparatus is required.

Trip caused by a fault current? Get clarification at a glance

Was the RCBO triggered by an overcurrent or a fault current? Doepke's protective devices provide clarification on this at a glance: the blue indicator gives a clear signal that the trip was caused by residual current. This provides a distinct advantage when troubleshooting.

Safe connection guaranteed

In confined wiring zones it is not always easy to know with absolute certainty whether the wire to be connected is also in the U-clamp terminal. The Doepke DRCBO 3 has a protective cover to prevent incorrect connection and thus protect against material damage that, in the worst-case scenario, could lead to cable fire, meaning you are always on the safe side.

Fault-free operation even in lightning storms

Thanks to its increased peak withstand current and slow-blow function, the DRCBO 3 'KV' design is able to prevent unwanted tripping. This can occur, for example, when switching on strip lighting and IT installations or even due to nearby lightning strikes. This is particularly helpful for unsupervised installations. Fewer false trips reduce on-site service call-outs and simultaneously ensure improved system availability.

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Quick installation and expansion

Thanks to their compact housing design, Doepke's RCBOs can be attached to the mounting rail quickly and with minimal space required. The DRCBO3 is also equipped with a tristable locking slide. The advantage here is that it can be detached from a rail connector with no problem, without needing to disassemble the busbar.

Fire protection at fault current frequencies up to 150 kHz

Doepke's RCBOs are available in characteristic B and C, and can therefore be adjusted precisely to fit the respective protection task. They are available for rated currents from 6 A to 40 A and/or rated residual currents 0.01 A, 0.03 A and 0.3 A. The DRCBO3 is available in the 1+N design, series FIB and FIC in 1+N and 3+N.

Our FIB and FIC are also available as AC-DC sensitive residual current circuit-breakers of type B. These devices are also available in two characteristic curves: Type B NK guarantees optimum fire protection – even at extremely high fault current frequencies of up to 150 kHz – at premises at risk of fire, such as warehouses, production facilities and agricultural sites. The SK characteristic curve is the ideal choice where reliable fault protection is required alongside high system availability.

Accessories

Doepke's range includes the DHi 12 auxiliary switch, which is available as an accessory to the DRCBO 3. This enables the use of additional signalling devices, such as buzzers or lights to indicate the operating status of the residual current circuit-breaker. The FAM 1 operating current trip module and RHSS anti-pumping device are also available. By switching on a voltage, the FAM remote tripping module generates a conventional tripping current that safely switches off RCBOs with rated residual currents up to 0.3 A. The FAM is suitable for switching off power supply circuits in residential and purpose-built buildings as well as industrial facilities.

The DRCBO 4Hi 1 auxiliary switch is available as an accessory for the FIB and FIC.

We are partner

Doepke

Doepke Schaltgeräte GmbH
Stellmacherstraße 11
26506 Norden | Germany

@ —— info@doepke.de
T —— +49 (0) 49 311 806-0
F —— +49 (0) 49 311 806-101

www —— doepke.de

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