Doepke

Trade fair highlights 2020

DRCBO 4 B —— compact dual protection
DFS ISΩ HD —— test-proof residual current protection
DCTR B-X Hz PoE —— smart transformer and DCTR Manager
DFS F Audio —— for maximum listening enjoyment
DFS A EV + DFS A EV OCP —— the safe way to fill up with electricity
DNU-3P —— intelligent network monitoring
Selection tool app —— finding the right residual current circuit-breaker for you

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DRCBO 4 B – compact dual protection

RCBO — *The proven combination of residual current protection and line protection is the most compact solution for reliably protecting power control circuits supplying frequency converters or other power converters, in the event of a short-circuit, overload or residual currents.*

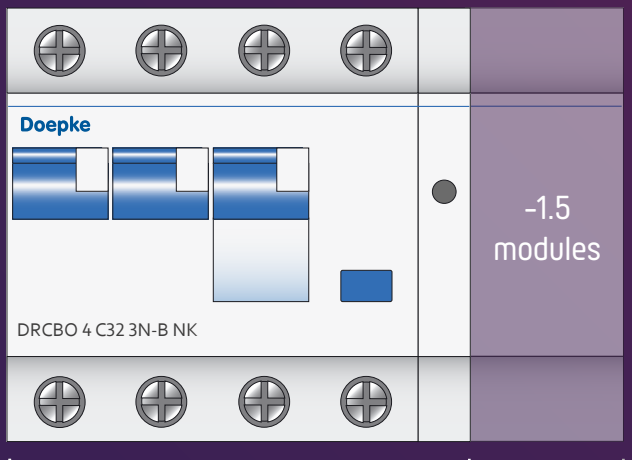
Doepke will soon be offering the AC-DC sensitive residual current operated circuit-breaker with integral overcurrent protection in an even more compact form: The DRCBO 4 B has a module width of just 2.5 units in the two-pole variant, and 4.5 units in the four-pole design. In the event of an overload or short-circuit, only the faulty circuit is switched off.

In addition to the types of residual current protection device already available – the SK and NK – the residual current operated circuit-breaker with integral overcurrent protection will soon also be available in a B+ version.

- significant space saving
- rated currents up to 32 A
- rated residual currents in 30, 100 and 300 mA
- VDE-certified

Now available in even more compact design

2.5 modules instead of 4 modules



4.5 modules instead of 6 modules

ISΩ HD
– test-proof residual current protection

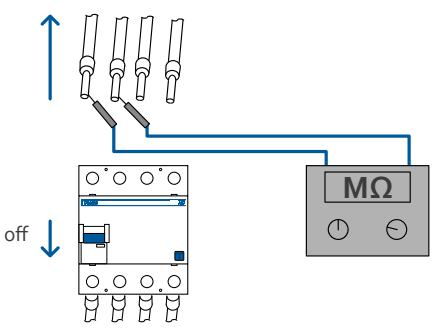
Insulation measurement without disconnecting

The repeated insulation measurements for electrical systems required by DIN VDE 0100-600 are often laborious. AC-DC sensitive residual current circuit-breakers must be disconnected beforehand, as otherwise the insulation test will give a false reading.

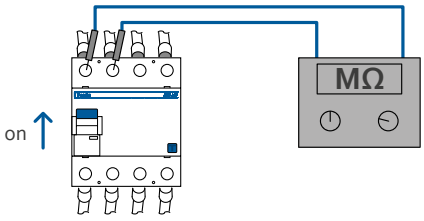
With the new ISΩ HD design from Doepke, there are now AC-DC sensitive residual current circuit-breakers that are test-proof. Insulation can therefore be checked without prior disconnection. Type B Doepke residual current circuit-breakers in the ISΩ HD design can handle up to 63 A rated current and 500 mA rated residual current.

- saves a lot of time during insulation tests
- no mechanical stress due to repeated disconnection
- no false readings due to the internal electronics

Without ISΩ:



New!
With the ISΩ HD, you no longer need to disconnect:



DCTR B-X Hz PoE – smart transformer

Signalling before switching

The new smart DCTR residual current transformer combines fire and system protection by monitoring using individually adjustable parameters. PoE (Power over Ethernet) connects the Ethernet port (network) with the transformer's power supply via Ethernet.

The frequency-selective DCTR B-X Hz PoE detects and evaluates residual currents at frequencies of 0 to 100 kHz with full reliability and displays them via the PoE interface in the DCTR Manager software. Constant monitoring of residual currents by the AC-DC sensitive DCTR B-X Hz PoE (according to DIN EN 62020) provides information about the system's isolation and/or leakage current status. As per DIN VDE 0105-100/A1, this can be used to avoid repeat insulation tests, which can often be expensive.
The measured values of the individual devices are recorded.
If several devices are on a network, individual machines or systems can be monitored even over longer periods of time.

- detection and evaluation of residual currents
- protection concept suitable for the system application
- two adjustable signal contacts
- easy implementation of devices

Gives you all the information you need at a glance

DCTR Manager

The DCTR Manager is included in the scope of delivery of the smart transformer. The software provides an overview of all transformers on the network and also makes it easy for you to manage and check residual currents. Other transformers on the network can easily be added via IP address assignment.
The system's protection concept can also be freely configured in the software. The threshold values for this can be set however you like and the two signal contacts can be evaluated individually. Reports on all or individual transformers can be called up automatically or manually for individual periods of time or as per a specific rota using the software.

DFS F Audio
– for maximum listening enjoyment

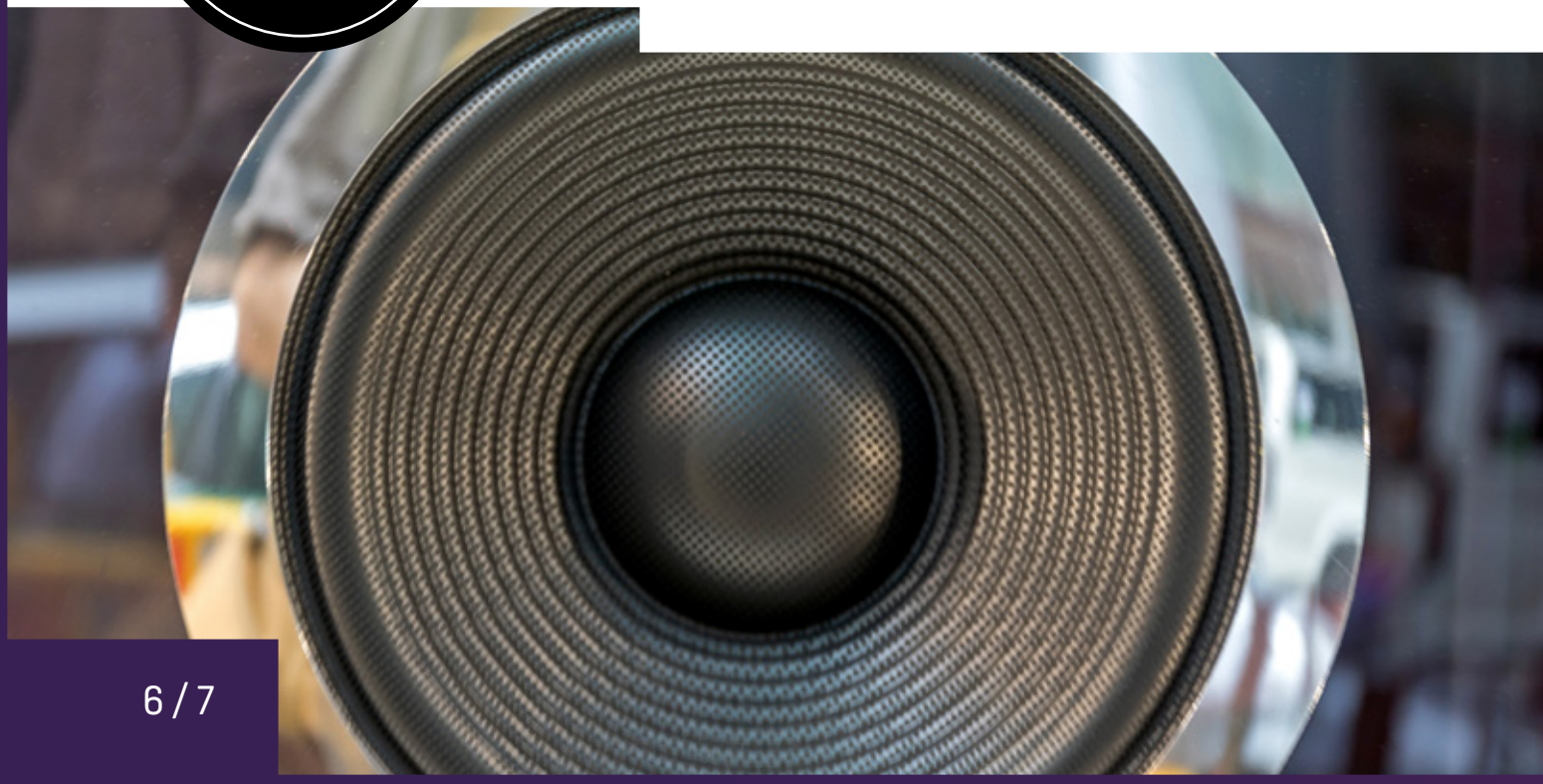
Residual current protection without any loss of sound

Easy on the eyes and ears: The new DFS F Audio was designed specifically for use in circuits comprising premium, sensitive sound systems. The residual current circuit-breaker won't affect the listening experience of those with even the most sensitive of ears.
And there's no need to hide the DFS Audio away – with its classy vinyl black exterior and white lettering, it fits right in with the premium equipment it protects.

This type F residual current circuit-breaker offers reliable protection against dangerous residual currents even with mixed frequency fractions in the event of a fault – and all without losing sound quality.

The low-impedance design of the DFS Audio ensures an unhindered listening experience: It has solid silver-plated connection terminals and gold-plated terminal screws. Solid silver-plated internal conductors made of high-purity, low-oxygen copper ensure an unrestricted flow of current and the special design of the summation current transformer prevents undesired inductive fractions.

Listen to music while staying safe.



The DFS F Audio comes in a two-pole and four-pole version with a rated residual current of 30 mA and for rated currents of up to 63 A. It protects personal audio equipment but is also the ideal choice for professional applications, such as for sound systems in theatres, concert halls and cinemas.

- silver-plated connection terminals and solid silver-plated conductors
- high-purity, low-oxygen copper and large switching contacts
- extremely low-impedance design makes inductive fractions ineffective
- residual current protection without any loss of sound

Optimum sound quality with safety

DFS A EV and DFS A EV OCP – the safe way to fill up with electricity

DFS

Dangerous smooth DC residual currents can occur when charging electric vehicles. Doepke developed the EV (Electric Vehicles) design of its DFS residual current circuit-breakers specifically for the charging of e-cars. As per standard IEC 62955, they are VDE-certified, detect smooth DC residual currents and trip at 6 mA DC. They prevent pre-magnetisation of the summation current transformer, known as 'blinding'. This applies to type A and F residual current devices in the actual transformer and those connected upstream.

- trips at max. 6 mA DC
- type A certified according to IEC 62955
- maintains the protective function of upstream residual current devices

DFA 3

After a residual current circuit-breaker trips, you can usually restart it with no problems, provided that it is easily accessible. In order to prevent longer periods of downtime even in charging columns that are far away, Doepke has come up with the DFA 3 remote actuator. With a width of just one module, it is the ideal complement to our EV residual current circuit-breakers.
The residual current circuit-breaker can be restarted remotely after tripping using the auxiliary device. Depending on the version, the circuit-breaker can be restarted automatically three times.

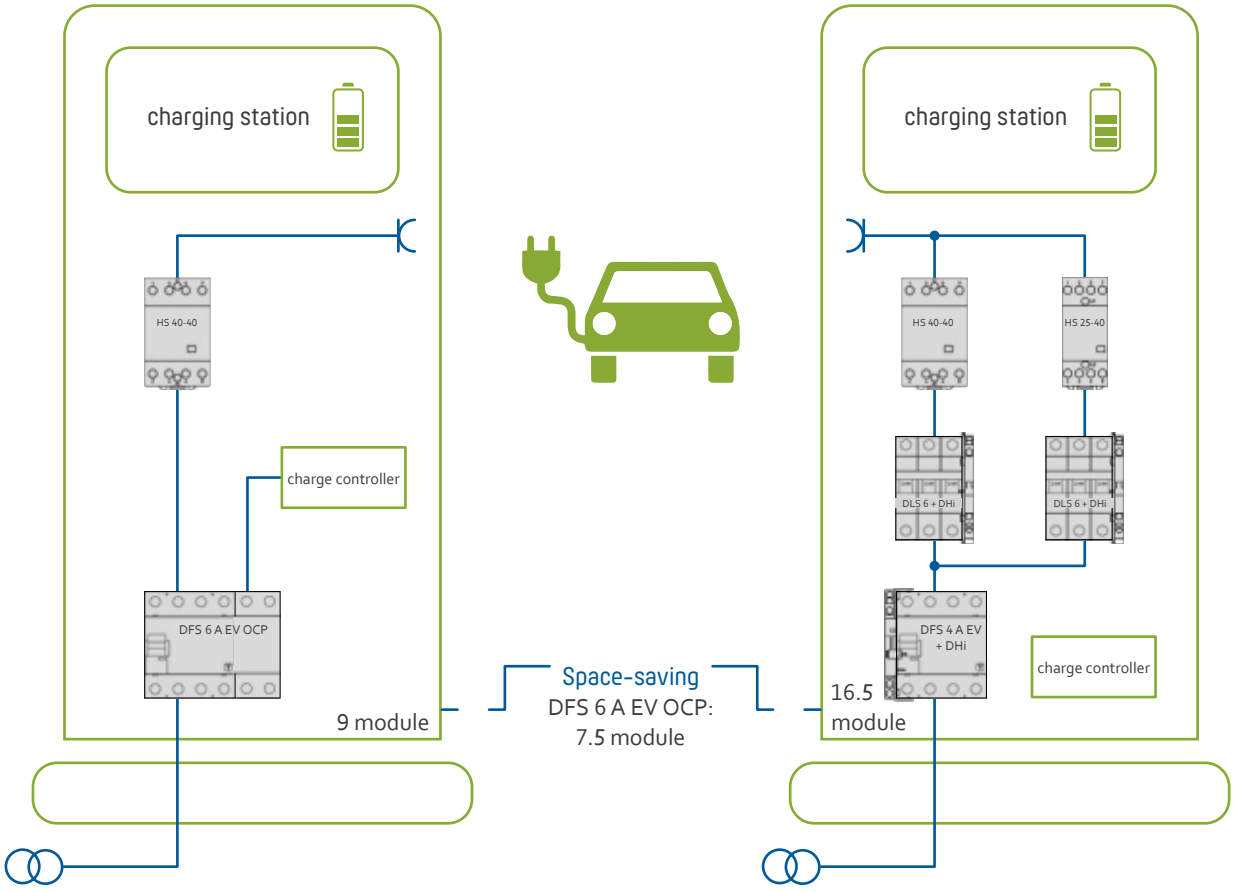
VDE-certified according to IEC 62955

DFS 6 A EV OCP HD

DFS 6 A EV OCP HD — Residual protection in charging devices for electric vehicles now comes with small-size, integrated switchable overcurrent trips: the DFS 6 A EV OCP HD (OCP = Over Current Protection). By saving on miniature circuit-breakers and contactors, up to 7.5 module widths of space can be saved.

- selectable charging to 16 A or 32 A
- RDC-PD with integrated temperature-independent overcurrent trip
- significant space saving

innovation for the charging station



power supply with short-circuit back-up fuse

power supply with short-circuit back-up fuse

Our quality objective is to supply customised special solutions that are tailored to meet individual customer requirements.

Jann Eilers, Head of Technical Design

DNU-3P – preventive network monitoring

Unknown sockets – a hazard, not just on construction sites
Enhanced protection for electrical systems

Potential errors in the network, such as PEN, neutral conductor or protective conductor interruptions, can pose a significant hazard and cause damage. The DNU-3P can reliably detect these errors and thus enhance protection of people and electrical systems. Doepke is offering the DNU-3P in a 4 module width wide housing that fits on the DIN rail.

DNU-3P – as part of a PRCD

In unknown sockets, the protective measures required and their effectiveness are also unknown. For example, the protective conductor may have been interrupted or it might be live. This poses a risk to life! Even a mobile residual current circuit-breaker (RCCB) cannot protect a person against hazardous currents generated by a live protective conductor. For this reason, a portable, all-pole switching protective residual current device (PRCD) is required for increasing the level of protection. In combination with a residual current circuit-breaker and suitable switching and control elements, a DNU-3P can enhance the level of protection accordingly.
By using one of our type B SK MI residual current circuit-breakers for this, a durable PRCD with additional functions can be created.

DNU-3P – as part of a mobile and stationary protection system

The DNU-3P monitors the supplying network, detects interruptions and incorrect polarities and shows the identified cause for the fault on its integrated display – even if the fault is no longer present. It also has a rotating field indicator and an internal self-testing function. The preventive network monitoring function of the DNU-3P can increase the level of protection provided for the downstream electrical system in combination with a switch-off device.

Selection tool app – finding the right device for you

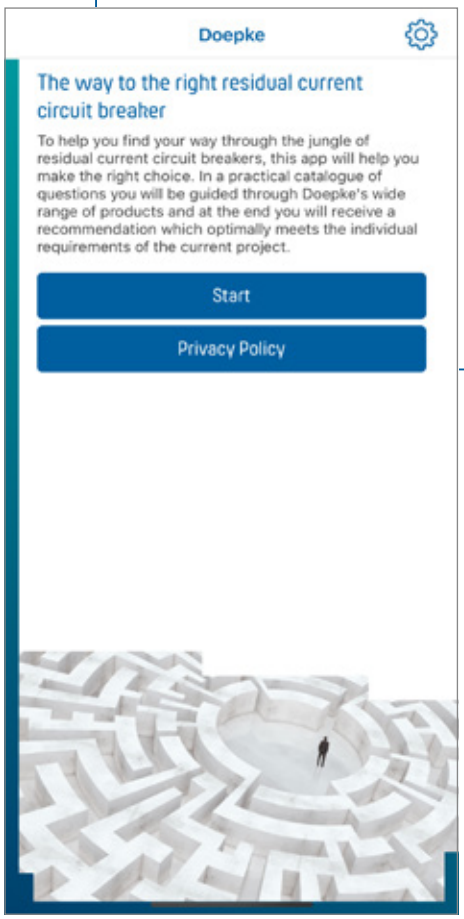
Straight to the right solution — There are residual current circuit-breakers for a variety of different applications. It is not particularly easy to navigate your way around them and choose the right model for your needs. This app takes you through the extensive product range and guides you to the right residual current circuit-breaker for you in just a few clicks.

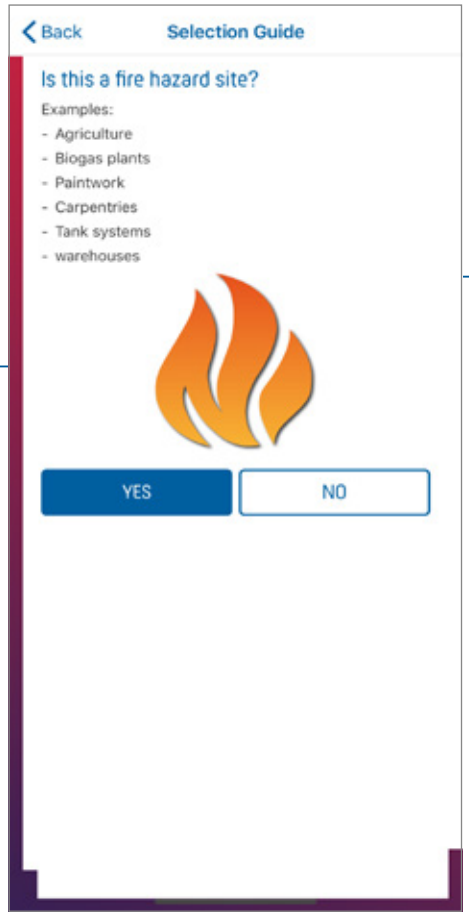
- practical questionnaire
- find the right solution in just a few clicks
- free for iOS and Android

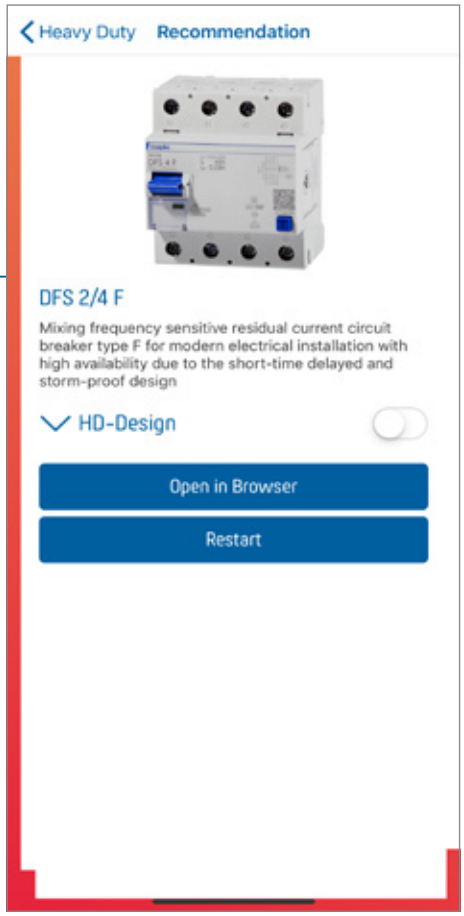
Download here

Android

iOS







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