

DIZ Doepke-Info-Zeitung

The free customer newsletter by Doepke Schaltgeräte GmbH



IN THIS ISSUE

Review and outlook..... 1	DFS Audio music to everyone's ears3	Sabiene in the Netherlands..... 4
The right circuit-breaker for every application ..2	Interview with an musician.....3	Doepke in motion 4
Training at Doepke.....2	Our electrical finds..... 4	East Frisians are world champions (of tea drinking)! 4

Review and outlook

The COVID-19 pandemic has continued to have an impact on our activities in 2021, especially our work in the public sphere. As a precautionary measure, Doepke has suspended all site visits and in-person attendance at trade fairs and other events this year. In spite of all the alternatives offered by digital tools, we have missed being able to talk face-to-face, as well as the opportunity to soak up new ideas and inspiration from fellow event-goers. We hope that next year will bring plenty of opportunities for us to meet in person.

Nonetheless, there's been plenty going on behind the scenes at Doepke as always. As a company, we have used the time to consolidate and build on our position. The demand for many of our products was so high that production lines were expanded and new machines procured.

The testing laboratory was upgraded and equipped with cutting-edge test technology. In future, UL tests will be conducted in this laboratory. Meanwhile, there is now another new testing facility in production for miniature circuit-breakers. The machinery used to produce MCBs is set to undergo general modernisation and expansion.



Tool manufacture

The upgrades include new machines for the plastic injection moulding department, as well as new assembly equipment at the production plant in Bickenriede, which has also recently undergone modernisation. In addition to this, the Doepke production studio for online seminars has been expanded, while new offices and

production areas have been added to Plant 2 in Norden to upgrade the existing facilities.

In order to meet the growing demand, we have welcomed 43 new colleagues into the fold since the start of the year.

And there's plenty in the pipeline for the coming months too. Work is set to continue for the expansion of the production facilities, and we will be bringing even more new employees on board. We have also begun preparations for the upcoming Light + Building trade fair. Uptake of the COVID-19 vaccine is growing by the day, so we are optimistic that we will once more be able to attend trade fairs of all sizes next year. Plans have been made for our trade fair stands and new brochures and, of course, we have plenty more exciting new developments in store for you this year. ■



Turning

The right circuit-breaker for every application

Residual current protection for specific applications

Residual current circuit-breakers are used in a wide array of applications. These not only include private homes, but also building sites, agricultural businesses, industrial production, mining, hospitals and many more. With such a diverse range of possible uses, these circuit-breakers must also meet a wide range of requirements.

For most of these applications, conventional Type A (pulsating current-sensitive and AC current-sensitive), F (mixed frequency sensitive), B and B+ (AC-DC sensitive) circuit-breakers can be used.

The circuit-breakers can have a two-terminal or four-terminal design, the neutral conductor on the left or right, and a variety of rated currents and rated residual currents. On top of this, a number of different variants and designs are available. For example, AC-DC sensitive RCCBs of the MI variant are the only ones on the market that are allowed to be operated downstream of Type A or Type F circuit-breakers. One type of MI circuit-breaker is the HD design, which is especially durable in tough ambient conditions such as cold, heat, moisture, dust and corrosive gases.

The ISQ HD is a new type of RCCB that greatly simplifies the insulation measurement process, since it does not need to be disconnected. There are also circuit-breakers designed for use in charging points and wall boxes (EV), as well as those for experimental equipment in laboratories and teaching rooms (NA), to name just a few examples.

RCCBs from Doepke can therefore be differentiated based on the demands they must meet in the various areas of use. Thanks to the wide array of models, variants and designs available, it is also possible to meet highly specific requirements.

The 'specialists' in the Doepke portfolio include circuit-breakers with a twin design.



By combining two complete RCCBs, these devices make it possible to test the function of the residual current circuit-breaker without having to shut off the electric circuit. When both devices are switched

on, one of the circuit-breakers can be triggered via the test button while the other conducts the current and provides the protective function. This specialist solution is particularly useful in laboratories or IT systems that depend on a consistent power supply.

Another circuit-breaker with a specialised function is the ST RCCB. ST stands for Selftest, while STR is short for Selftest Restart. These circuit-breakers carry out a self-test once a month and use LEDs to indicate their operating state.

The Selftest Restart version resets itself after it has been triggered. Before attempting to restart, these circuit-breakers automatically conduct an insulation test.

If an error is found, the restart is cancelled. These devices are particularly useful in remote facilities or difficult-to-access systems.

The DFL 8 is used in large cranes on building sites, in hospitals with MRI scanners, or in complex supply systems with high short-circuit current in purpose-built buildings and industrial facilities.

This specialist offers residual current protection up to a rated current of 250 A. The



circuit-breakers with residual current protection are compact devices with an integrated auxiliary switch and terminals for large wire cross-sections of up to 185 mm². They have a high short-circuit switching capacity and an adjustable response

delay. The thresholds for instantaneous and short-time delayed overcurrent trip are adjustable.

Doepke RCCBs in the V design are used in mining and in industrial 500 V networks. These RCCBs are designed for special voltages – in this case 500 V.

Doepke offers a selection tool that provides a clear overview of all the available options. The selection tool is available as a mobile or internet app, or as a good old-fashioned poster. If you require a circuit-breaker for a specialised application, please do not hesitate to contact us. We would be delighted to advise you further. ■

Scan to open the Doepke selection tool app

Android

iOS



Training at Doepke

On 1 August, seven apprentices and two work-study students began their training at Doepke.

We would like to extend a warm welcome to our future industrial sales associates, IT specialist in application development, media designer, industrial engineering technician and warehouse logistics specialists, and wish them and the two work-study students (IT and electrical engineering) every success.

Doepke is once again offering a range of apprenticeships in 2022. If you'd like to join the team, send us your application! ■

You can find more information at [karriere.doepke.de](https://www.karriere.doepke.de)

DFS Audio music to everyone's ears

Reviews of our circuit-breaker for maximum listening enjoyment

The DFS Audio has a special skill: in acoustic terms, it acts as though it's not even there. This is possible thanks to its design, which features high-quality components such as silver-plated connection terminals, large switching contacts and solid, silver-plated conductors made of high-purity, low-oxygen copper. All of these elements work together to ensure an unrestricted flow of current.

These impressive features of the DFS Audio have caught the attention of a small group of individuals who nonetheless have high purchasing power. Specifically, these are people with excellent hearing, an interest in high-quality audio systems, and a desire for a 'pure' musical experience. If their audio systems contain standard RCCBs, these users notice interference or loss of sound quality.

Since its launch, the DFS Audio has been tested, reviewed and discussed many times over. It's safe to say that everyone who has

tested the DFS Audio has been thoroughly won over by it:

"Impressively innovative. The DFS Audio deserves to be heard. The difference is clear to anyone that uses it." (Werner Ero, Home Emotions magazine, the Netherlands)

"Put briefly, the sound with the Doepke DFS 2 was simply more realistic." (Christiaan Punter, Dutch blogger, hifi-advice.com)

"The Doepke DFS 2 does not affect the sound. Great job, Doepke!" (Mariusz Zielmachowicz, text for various audio forums, Poland)

"It's truly impressive. A bigger sound stage, more PRaT (pace, rhythm and timing) and the bass is to die for." (Rocoo, Spain, user of whatsthebestforum.com)

"The music became a force of nature: fast, powerful and, in all honesty, a little over-

whelming." (Blackmorec, user of whatsthebestforum.com)

"I'm listening to Harry Belafonte – and immediately I'm transported to Carnegie Hall. Between me and the young Harry Belafonte there are no barriers – physical, electronic or acoustic. I feel like I'm listening to Harry Belafonte more authentically than ever before." (Wolfgang Saul, Audiosaul HiFi studio, Oberhausen)

"I never imagined that an RCCB could have such an impact on the sound." (Michael Helmke, electrician and audiophile)

"This accessory improves the performance of a sound system so much that I can only think of one drawback – once you've installed it, you can never live without it again." (Jorge G., Audio & Cinema em Casa magazine, Portugal) ■



Interview with a musician

Götz Kelling-Urban studied music in Bremen, Huddersfield, Leeds and London, and was a member of the Bremen chamber symphony orchestra for many years. HiFi components have been a part of his life from an early age. And when he moved to Switzerland, he turned his hobby into a career. Since then, Götz Kelling-Urban has struck out on his own, opening Highend Studio in Bremen.

Doepke: Mr Kelling-Urban, how did you come to install the DFS Audio in your distribution board?

Götz Kelling-Urban: I saw the circuit-breaker for the first time in a friend's shop and was really interested to find out what it was. I've long been interested in the relationship between electricity and sound quality. A little while later, I was approached by one of your field sales executives, who gave me a run-down of the DFS Audio's features. I recognised it immediately and was keen to test it out.

Doepke: So you installed the DFS Audio and can tell us about how it compares to a standard RCCB. What differences did you notice?

Götz Kelling-Urban: I immediately noticed that the sound was much more present. It had more energy; it felt more spacious and free. More than ever before, I could sense the real weight of the instruments and their

position in space. The timing – the musical flow – was more realistic and easier to follow, while the tone was reproduced much more naturally.

My admittedly inexpert opinion is that the DFS Audio eliminates or at least significantly reduces faults in the current flow that would otherwise affect the movement of the membrane in the loudspeaker and thus its transient response.

Doepke: How big was the difference between a normal RCCB and the DFS Audio?

Götz Kelling-Urban: I sensed a huge difference between the two. They're worlds apart.

Doepke: Does this mean that you would recommend the DFS Audio to fellow audiophiles?

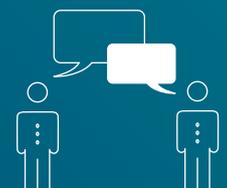
Götz Kelling-Urban: Absolutely! Of course there's a financial investment for the cus-

tomer, but that's true of any other component too. Ultimately, we're talking about an improvement in sound that is well worth the money, in my opinion.

Doepke: What do you think about the DFS Audio's appearance?

Götz Kelling-Urban: (laughs) Well, when you look into the fuse box, you can immediately tell that there's something special in there.

Thank you for talking to us! ■



Our electrical finds

Be it cable chaos, a curious installation or even 'chindogu' – the electrical curiosities we encounter have one thing in common: they are out of the ordinary and catch our eye. By the way, chindogu is Japanese and means 'unusual gadget'. The term refers to inventions that the world doesn't really need but finds very amusing. We want to make you stare in amazement, shake your head or laugh out loud by sharing our favourite electrical finds with you in this regular feature.

Decoration or just part of the electrical system? It's hard to tell in this shop in Tistedal, Norway. The hand-finished wooden cable clips could be either. Thanks to Uwe Schütze from Elektra GmbH Wittenburg for the photo.



Do you have an entertaining electrical find to show us? If so, please take a photo of it and send it to us at: kommunikation@doepke.de
Important: We can only consider photos that you have taken yourself. ■

Sabiene's travels:

Sabiene in the Netherlands

'Welkom op de Lemmer' was how Sabiene's latest trip began. She spent her summer break



in the Dutch town of Lemmer, on the shores of the IJsselmeer. The attractions at this top bathing resort include its harbour, although you have to trek through an extremely narrow access route to get there. It's also home to the world's last active steam pumping station. Lemmer sits on the shores of the IJsselmeer and several other lakes, making it a popular destination for water sports fans. Of course, our aviation specialist Sabiene thought the flight was very pleasant too. ■

Doepke in motion

Here at Doepke, we don't just work together – some of us also play sport together too. At present, Doepke has a football team and a bowling team, both of which play in the leagues of Norden's company sports association.

The Doepke football team closed out the 2021 season ranked number 4 in the table, level on points with the team from Oldenburgische Landesbank.



Meanwhile, the season is just beginning for the Doepke bowling team, who hope that they'll be able to play ten games this time around in spite of the pandemic. All bowling was suspended in 2020 due to COVID-19.

In addition to joining one of the sports teams, all Doepke employees have the opportunity to make use of Hansefit's services. For a small monthly fee, they can gain access to a range of gyms, sports courses and other offers. ■

East Frisians are world champions (of tea drinking)!

For those of us at Doepke in Norden, East Frisia, it comes as no surprise to learn that our region's fine residents out-drink everyone in the world when it comes to tea. On average, we each drink around 300 litres of black tea per year, putting us well ahead of Turkey, Libya and England. Drinking tea is an essential part of East Frisian culture and is associated with a traditional ceremony. Anyone who has visited Doepke in Norden or at one of our trade fair stands will know that

tea with 'Kluntje und Wulkje' is an indispensable greeting ritual. 'Kluntjes' are lumps of rock sugar, while 'Wulkje' is the cream that is poured into the tea anti-clockwise using a special spoon. The tea is not stirred, and at least three cups must be drunk according to East Frisian tradition. Once a tea drinker has had enough, they must put their spoon in their cup. Around five years ago, this tea culture was recognised by UNESCO as an intangible cultural heritage. ■



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QUOTE OF THE QUARTER

*Above the clouds,
the sun is shining.
(Achter de wolken schijnt den zon.)*

From the Netherlands

DATES/NOTES

Doepke Academy

Interactive webinars on our new products and latest topics.

All the dates and additional information can be found at

www.akademie.doepke.de