

# DIZ Doepke-Info-Zeitung

The free customer newsletter by Doepke Schaltgeräte GmbH



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## Electromobility

### New IEC 62955 standard – certification for Doepke RCCBs

The new IEC 62955 product standard for residual current protection devices in charging devices for electric vehicles came into effect in March. Our DFS residual current circuit-breakers with an EV design are based on the DIN EN 61008-1 standard that applies to residual current circuit-breakers. They also have an active additional function, meaning they can be relied upon to detect smooth DC residual currents and isolate them at a maximum of 6 mA. As a result, they comply fully with the requirements for residual direct current protective devices (RDC-PD) as set out in the IEC 62955 standard. Our EV switches will therefore now be granted VDE certification in line with the new standard. To provide you with some background information, the installation regulations for electromobility charging points – DIN VDE 0100-722 – specify that every socket used

to charge an electric vehicle must be protected by its own residual current device (RCD). Mode 3 charging points must include protection against smooth DC residual currents. This protection can be provided by electrical separation (isolating transformer) or Type B residual current operated protective device or Type A + 6 mA DC detection (RDC-DD). Requirements for RDC-DD protection devices for Mode 3 charging, are detailed in the new Standard IEC62955 for residual current protection (single- or multi-phase charging with alternating current).

The IEC 62955 standard includes residual direct current protective devices (RDC-PD) and residual direct current monitoring devices (RDC-MD) under the umbrella term RCD-DD. Residual direct current monitoring devices consist, for example, of a monitoring module (RDC-

M-module) for detecting smooth DC residual currents and a switching device that may or may not have an isolation feature. When working with this particular combination, the person or company responsible for the installation must, however, always carefully follow the switch-off criteria required in the event of a fault and a Type A or F residual current operated protective device must always be provided. Alternatively, they can use a single residual direct current protective device (RDC-PD) as a convenient means of protection for each of the charging device's sockets provided that it detects DC residual currents and isolates at a maximum of 6 mA. Our DFS residual current circuit-breakers with an EV design would be ideal for this purpose. ■

## Congratulations!

Uwe Schanzenbecher from the company Schanzenbecher Installationstechnik in Lambshiem in Germany has been announced as the lucky winner of our 2019 customer survey competition.

His prize was a DFS 4 B SK HD construction site power switch, which was awarded to him by Florian Schmitt, our Field Sales Executive for the Southwest Region.





▲ The highly coveted ELMAR Brand Award.

Image source: 'Electronics brands – strong partners' initiative

## ELMAR Brand Award

### Applications open now

ELMAR will be running the 'Electronics brands – strong partners' initiative once again in 2019.

The annual Brand Award sees electrical companies being recognised for exceptional trade services, innovative brand concepts and outstanding brand awareness. ELMAR prizes are awarded across five categories: three based on company size plus one for newcomers and one recognising the work of excellent employers. The winners are rewarded with a comprehensive marketing package that includes a video

and a dialogue marketing campaign amongst other things. Newcomers may optionally be given prize money totalling EUR 10,000, whilst employers can walk away with EUR 5000. The money is to go towards recruiting new members of staff or taking care of existing employees.

The application documents for ELMAR 2019 can be downloaded from the following website: [www.elektromarken.de/downloads](http://www.elektromarken.de/downloads).

Warning: The closing date for applications is 15 July 2019. ■

## Everyday questions

### Can I use a 4 pole residual current circuit-breaker on a single phase circuit as well?

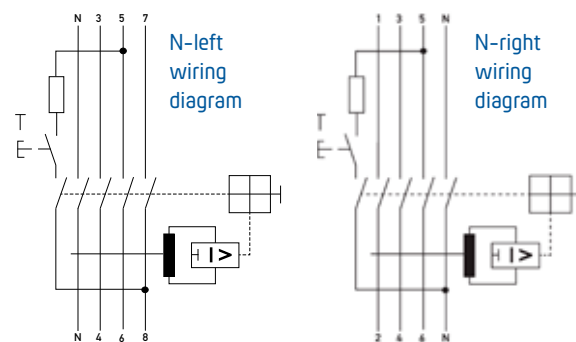
Residual current detection works on the basis of the total current principle – even when operating a 4 pole residual current circuit-breaker on a single phase circuit. However, making sure that a residual current circuit-breaker is functioning properly also involves ensuring that it can be tested on a regular basis using the test button.

In the case of 4 pole residual current circuit-breakers in the DFS series, the test circuit is located between connections 5 and 8. This means that it is between two phases (alternating voltage = 400 V) in N-left devices and between the phase and neutral conductor (230 V) in N-right devices. If the test circuit

is to function properly, its operating voltage range must match the applied voltage.

The operating voltage range limits the internal test current, which, according to the DIN VDE 61008-1 product standard, depends on the rated residual current of the relevant residual current circuit-breaker.

If a standard N-left device is operated on a single phase circuit, no voltage is applied to the test circuit (N + 3) or it is too low (5 + 7). In both cases, the switch will not trip when the test button is pressed. If, however, a N-right device is operated on a



single phase circuit, 230 V will be applied to the test circuit as during normal operation and the test button will work as expected. ■

## Differential current analysis for safe products

### Leifert Induction in Oldenburg relies on DRCA 1

Electromagnetic induction is an energy-efficient and time-saving heating method that comes in very handy in an industrial setting.

Leifert GmbH, a company based in Oldenburg, develops and produces induction systems for industrial heating processes. These have an extremely wide range of uses, with one of the main areas of application being bonding and debonding shrink joints. This process involves the outer part of a joint being heated evenly. Heating can be made super speedy using individually produced inductors, allowing for

workpieces to easily be installed and removed in no time.

This technique is put to use, for instance, in the railway industry when retrofitting wheelset bearings, when building wind power stations, in steel and roller mills, for turbines in the aeronautics sector and to speed up assembly processes within the automotive industry. Induction also allows for workpieces to be brought up to the right temperature before welding begins, preventing unwanted changes to materials and avoiding the risk of cold

cracking. This method is used when constructing pipelines, for example.

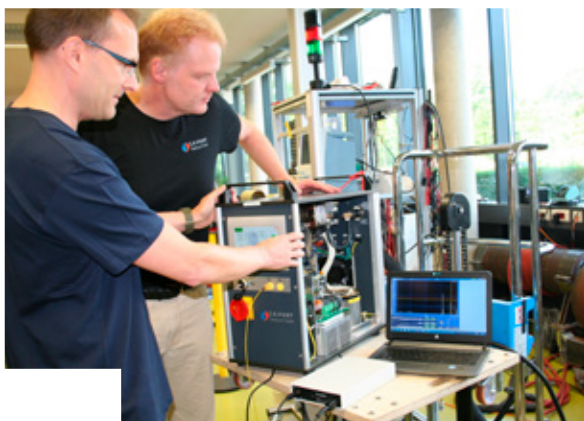
Regardless of whether induction is being used on a small or large scale, there are always special requirements as far as the electrical installations are concerned. High frequencies are required for the induction process, but they cause operation-related leakage currents. This can pose quite a challenge to standard residual current circuit-breakers, as they cannot differentiate between

residual current and leakage current and are caused to trip by the relevant residual current as per their intended function. Surge residual currents can also cause accidental tripping. Selecting a suitable RCCB helps to reduce this by some considerable margin or even avoid it altogether. A precise understanding of the leakage currents that occur is required if the right switch is to be sourced.

Leifert Induction develops solutions tailored to suit customers' specific requirements, meaning that the leakage currents occurring are always different. That is why the staff at the company test each induction device using the DRCA 1 differential current analysis system from Doepke.

This makes it possible for Leifert Induction to give their customers specific details on the leakage currents occurring and recommend the best way to set up the electrical system as well as the perfect residual current circuit-breaker for the job as required.

Induction devices from Leifert Induction can then be simply connected to a socket on site and operation can begin. Protection is provided by the electrical installation in place. ■



# Salam alaikum – Doepke in Dubai

Trade fair season is well underway



It is important to us that we keep in touch and communicate with our customers at home and abroad. So it's no surprise that March saw us head along to Middle East Electricity, the leading trade fair for the energy sector in the Arab world. We were also treated to product presentations, lively discussions and opportunities to exchange views and ideas at eltec in Nuremberg in January, at elektrotechnik in Dortmund in February, at eltefa in Stuttgart in March and at Hannover Messe at the start of April. You can find out where we are off to next by checking out the Dates & Notes section on page 4. ■

◀ Volkert Kamotzke (FTG), Edgar Eichmann, Andreas Müller, Gerhard Janssen (all three from Doepke Schaltgeräte GmbH), Peter Minoo and José Cleetez (Doepke Middle East).

## Full package for your online shop

Doepke product data now available on OXOMI

Doepke has been using OXOMI from the very beginning and we have now added even more to the portal. From now on, we will be providing you with all of our product data alongside catalogues, price lists, brochures and DIZ issues.

This means you can access the product image, promotional text, data sheet, operating instructions, wiring diagram, dimensional drawing

and technical information for each of our products. Wholesalers with shop systems using OXOMI will benefit most, as this data will be available to them automatically. The newly widened scope of data available will also make it much easier to share master data, whilst speeding up the process too. It goes without saying that we will keep all data published on the portal up-to-date. ■



## Now available in large poster format

There are so many different types and designs to choose from when it comes to residual current circuit-breakers. In fact, it can be quite a challenge navigating this maze of options. Our guidelines for selecting residual current circuit-breakers provides reliable assistance in finding your way. And they are now also available on an A2-sized poster. You can order your copy by sending an email to [bestellungen@doepke.de](mailto:bestellungen@doepke.de) or by using the document delivery service on our website. If you'd rather print off your own copies in (almost) any size, you can find the instructions in the Downloads area of our website. ■



## Our electrical finds

Be it cable chaos, a curious installation or even 'chindogu' – the electrical curiosities we encounter have one thing in common: they catch the eye and are out of the ordinary. Chindogu, by the way, is Japanese and means 'unusual tool'. 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, so we are going to share our favourite electrical finds with you in a regular feature.

Teddy grill or dangerous decoration posing a fire risk? Even in the era of LED technology, it's important to remember that other lights can get very hot.

Luckily it was only the teddy bear that ended up with a hot bottom this time. Rather ironically, these photos were actually taken at an emergency response centre... Thank you to Udo Reinmann from the Centre for Occupational Safety and Medical Environmental Technology at the Carl Korth Institute in Erlangen for sending them in to us!



Do you have an entertaining electrical find to show us? Take a photo of it and send it to us: [kommunikation@doepke.de](mailto:kommunikation@doepke.de)  
Important: We can only consider photos that you have taken yourself. ■



New to the Accounts department:  
Heike Lübbers

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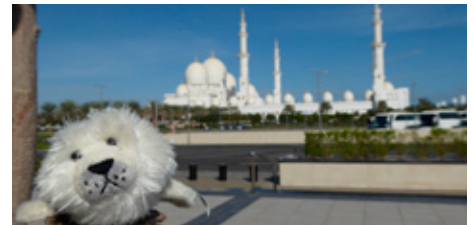
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### Pinni's travels:

## Pinni in Abu Dhabi

As part of the United Arab Emirates, Abu Dhabi – the emirate and its capital city – is reminiscent of Dubai. It boasts ultra-modern architecture, with buildings reaching staggering heights and skylines that simply take your breath away. Pinni was certainly very impressed on a recent trip to Abu Dhabi and Dubai. But a mosque standing proud with its minarets undoubtedly oozes much more Middle Eastern charm, so Pinni decided to get a photo in front of the Sheikh Zayed Grand Mosque this time. It's the biggest mosque in the



United Arab Emirates and the eighth biggest in the whole world. There is space for as many as 40,000 worshippers inside. As if those superlatives weren't enough, the world's largest hand-knotted carpet can be found in the mosque alongside the world's largest chandelier. ■

## Sales representative days and new sales agency Schardt



We invited staff from our sales agencies over at the end of January and in the middle of March. On each of the two days, the agenda included a factory tour, company updates, product training and opportunities for discussion. We also welcome Schardt OHG since the

company started representing us in the Düsseldorf area on 1 February. We are excited about beginning what we hope will be a fruitful partnership. You can find the contact details for all of our national and international sales agencies in the Contact section of our website. ■



New to the Dispatch team:  
Insa Quaschny

## Shipping all over the world

Insa Quaschny has been in charge of arranging global delivery of our products and trade fair and marketing materials for just under a year now. With training as a forwarding merchant under her belt, she is responsible for all countries. The 31-year-old appreciates the variety this brings to her role.

In her spare time, she loves to explore the great outdoors with her partner and two dogs and she also enjoys meeting up with friends. ■

## Keeping the numbers in check

Heike Lübbers joined the Doepke team in July 2018.

She is responsible for keeping our accounting records and paying all incoming invoices on time. Her past work experience includes a long stint at a tax consultancy firm. She really appreciates the fact that she has the flexibility to maintain a healthy work-life balance here at Doepke and she enjoys going swimming lots in her free time. ■

### QUOTE OF THE QUARTER

*Think for too long  
and you won't begin.  
Don't begin  
and you surely won't win.*

*Arabic saying*

### DATES/NOTES

**Seminar covering expert knowledge  
on residual current devices (RCDs) and  
measurement procedures**  
21–22 May 2019, Glotttertal

**EnTec**  
6 June 2019, Heilsbronn

**de-Normentagung**  
10–11 July 2019, Munich

**Doepke works holidays**  
15–26 July 2019

Our Production department will be closed during this time. You can contact all other departments as usual.