

***FOCUS ON THE NEXT
GENERATION OF DRIVE
TECHNOLOGY!***





Dear Trade Fair visitors,

In today's world of constant change and innovation, drive technology plays a crucial role in almost all industries.

Our vision is to work closely with our customers to shape the future of power transmission by providing innovative solutions that increase productivity, promote energy efficiency and minimize environmental impact.

Talk to us, we are at your side.

INNOVATION THROUGH SIMULATION:

Our products excel in extreme environments, from icy -50°C in the Canadian Rocky Mountains to scorching $+40^{\circ}\text{C}$ in the Nevada deserts. We ensure this reliability through strict quality standards and comprehensive testing, starting in the planning phase, advanced computer and software solutions allow our engineers to simulate temperature changes, heat conduction, and radiation, reducing costs and enhancing quality. Our cutting-edge engineering programs enable us to calculate lifespans and analyze weaknesses even before prototypes are made, offering customized solutions promptly and cost-effectively.

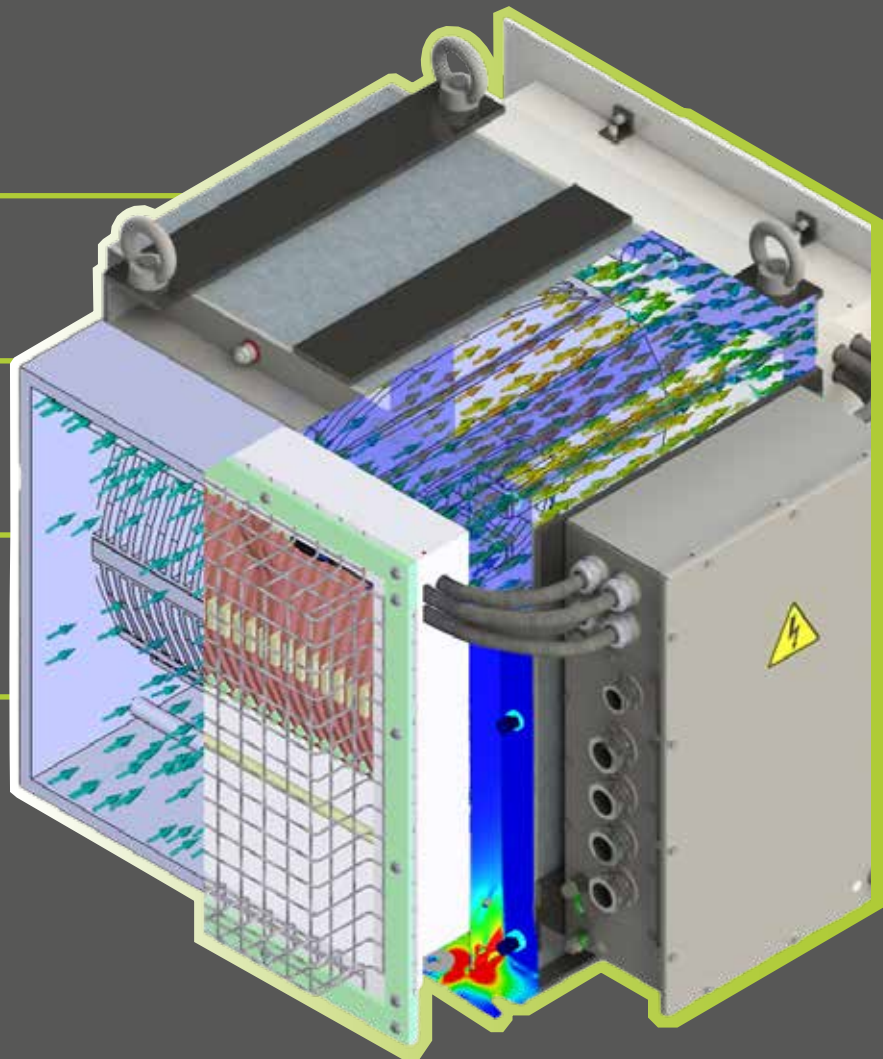
At REO, we rely on simulation technology to optimize product performance and extend lifespan, ensuring the highest possible quality.

» **CUSTOMIZED DESIGN** – Adaptation through targeted simulations.

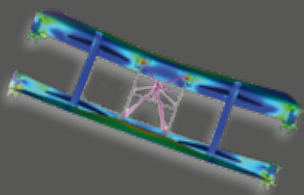
» **RELIABILITY** - early detection of weak points for extreme conditions.

» **COST EFFICIENCY** - material savings and shortened development times.

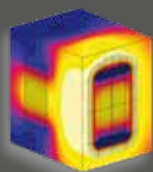
» **BEST PRODUCT QUALITY** - service life calculations and load analyses.



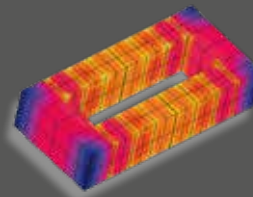
For more information



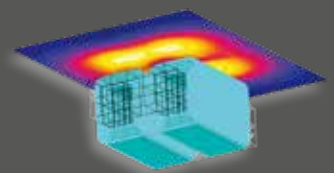
Stress analysis using FEM



3D thermal simulation Thermal distribution the warmth



3D magnetic field simulation Distribution of magnetic flux density



3D magnetic field simulation Determination of the magnetic stray field density

PROTECTION RATING: YOUR KEY TO SAFETY

Electrical equipment is often required to work safely and reliably for many years under the most difficult conditions. In industry, aggressive substances are often used - for example fuels, gases, and corrosive substances - and it is necessary to ensure that electronic devices work properly there too. In addition, the ingress of dust and water must be prevented.

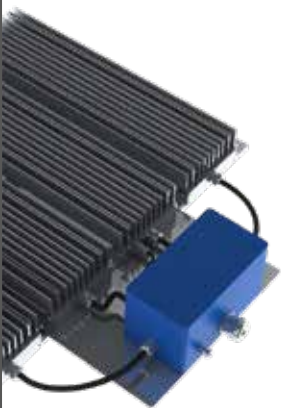
PROTECTION RATING
UP TO IP 69 K



RESISTOR BW D 330

Provides the highest degree of protection IP 69 K according to IEC standards for extreme conditions.

For more information



RESISTOR BW 155 COMBI

Excellent corrosion and salt water protection for maritime environments.

CHOKES AND FILTERS IN CNW M DESIGN

By using the IP 66 protection rating, expensive control cabinets are no longer necessary and costs can be saved.



HEAVY-DUTY HIGH PERFORMANCE



For more information



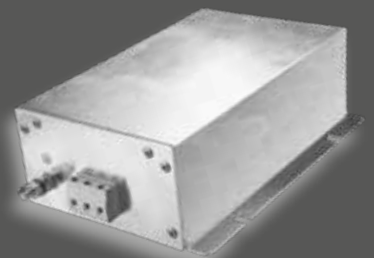
REO products are used worldwide under the harshest conditions - at over 40 °C in deserts or at -50 °C in mountainous regions. Water, salt, corrosive substances, and mechanical influences such as shock and vibrations must not have a negative impact either and REO components from the Heavy Duty range are specially designed for these environmental conditions. Their special design ensures maximum protection against mechanical, chemical, or atmospheric influences and enables high levels of functional reliability and a long service life.

Thanks to our experience, REO products are renowned for being reliable even under the most adverse conditions.

Robust watercooled braking resistor with optimum heat dissipation for reliable braking systems.

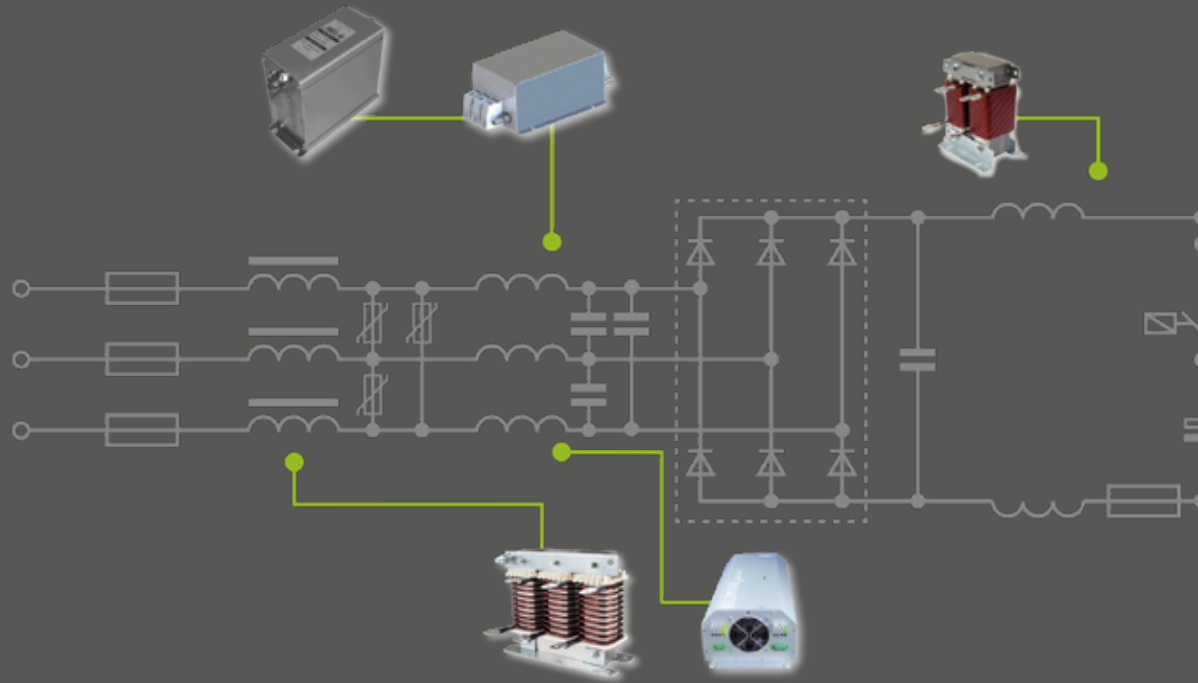
New choke to relieve the load on the supply network and improve network quality.

New EMC filter provides maximum efficiency and reliability



INCREASE NETWORK QUALITY - REDUCE ENERGY COSTS

EMC FILTERS - CHOKES - RESISTORS - CURRENT TRANSFORMERS



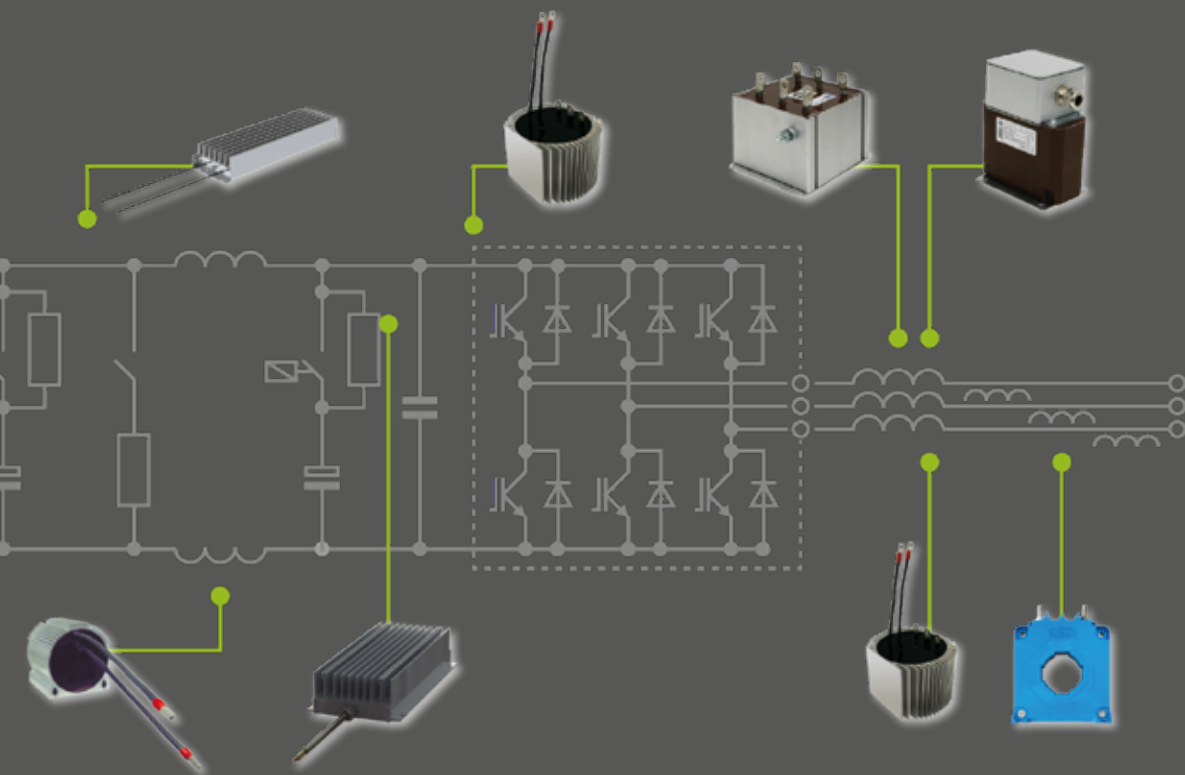
Energy efficiency

In times of rising energy costs and increasing CO2 emissions, minimizing losses in the transmission network are becoming increasingly important. An important factor here are inductive reactive currents, which are generated by harmonics and the resulting reactive power.

Lower efficiency means higher environmental impact as well as increased costs due to greater energy requirements.

Line chokes, DC link chokes or harmonic filters from REO reduce disturbing harmonics and thus help to counteract the reactive current that arises. This allows the proportion of reactive power to be reduced and both energy and costs can be saved.





e.g. save energy with the REOWAVEpassive!

UPTO **30%**

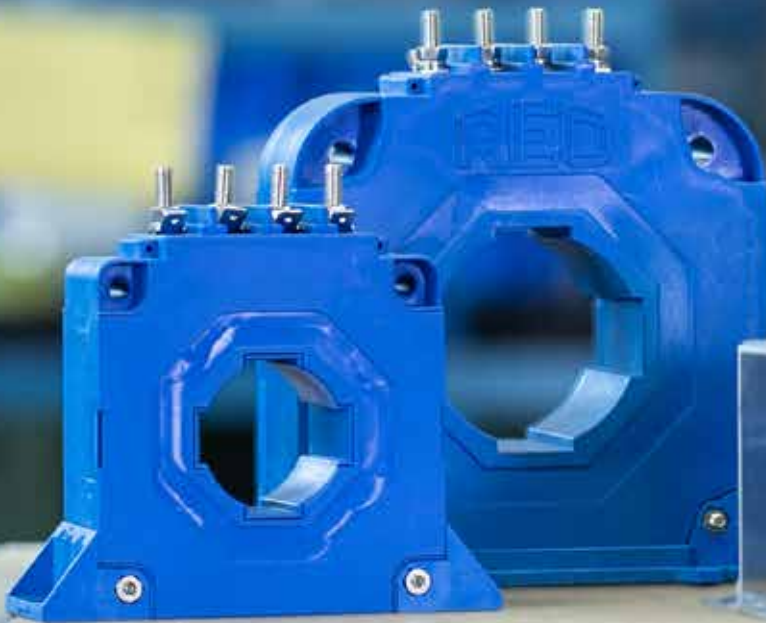


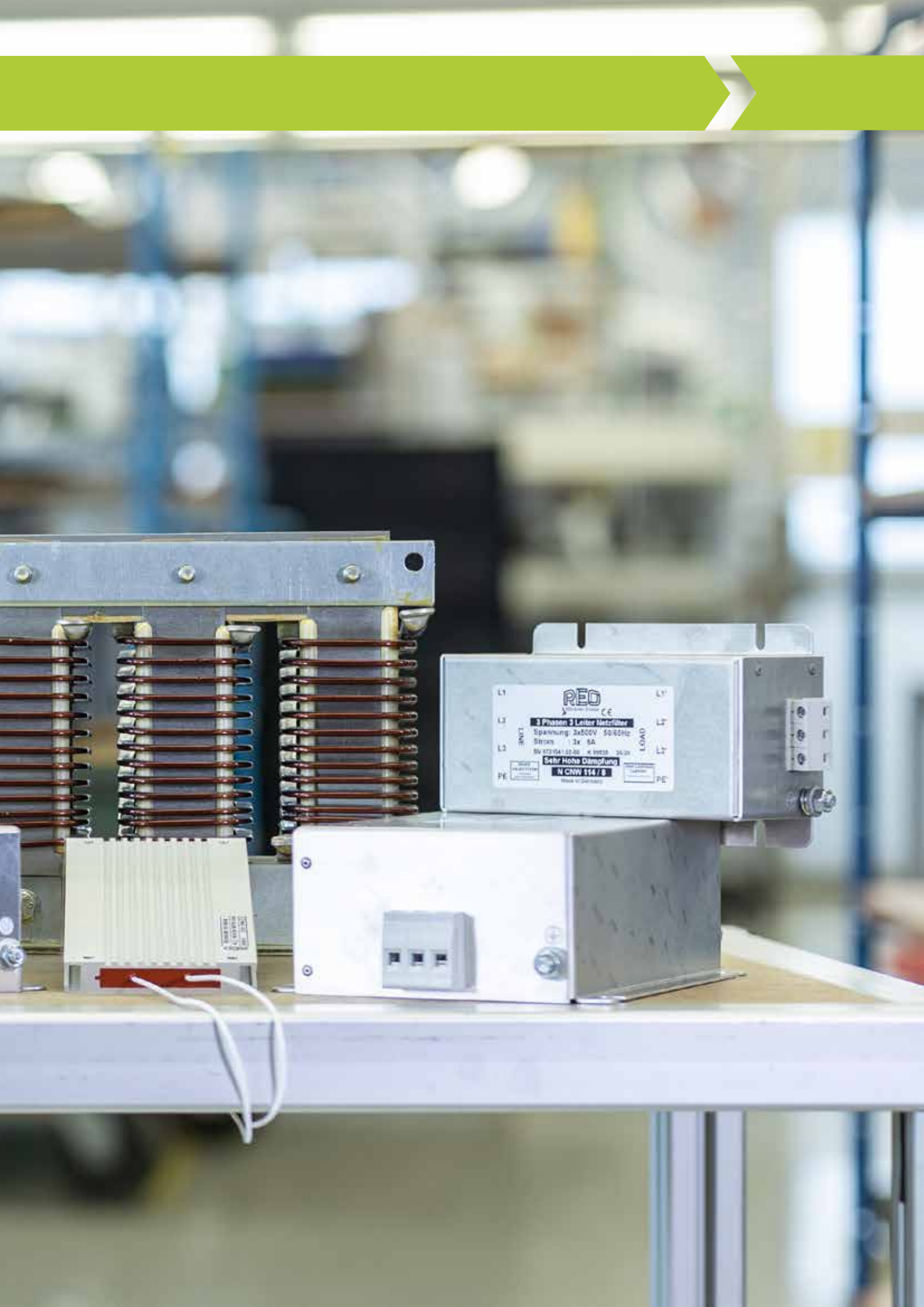
For more information



HIGH-PERFORMANCE AND ENERGY-SAVING

- » *SINGLE AND SERIES PRODUCTION*
- » *RESOURCE-REDUCTION*
- » *LATEST MANUFACTURING TECHNOLOGIES*
- » *CUSTOMISED DEVELOPMENT*





PEO
3-Phasen 3-Leiter Netzfilter
Spannung: 3x500V 50/60Hz
Strom: 3x 5A
Sehr Hohe Dämpfung
N CHW 114 / 8

REOWAVE®passive

REOWAVE®passive not only provides protection from the effects of harmonics, but the operating costs of the connected load can also be significantly reduced. Due to the filter's mode of operation, current and current harmonics are reduced, so that fuses, circuit protection, wiring, connectors and transformers can be rated for the reduced rms current. In this way, not only electricity costs but also material and installation costs can be minimized.

Advantages

- » Damping of very high current peaks by up to 40%
- » Reduced distortion of sinusoidal mains voltages
- » Improvement of the performance factor to 0.9
- » Reduction of the effective current up to 60%
- » Reduced burden on the supply network by compensation of the harmonics reactive power
- » The harmonics are greatly reduced.
- » Energy savings of up to 20%

HARMONIC FILTER CNW 8981 -50/60 HZ



For more information

RELIABLE TESTING TECHNOLOGY FOR YOUR SUCCESS

REO, as a leading company, specializes in the design and manufacture of a wide variety of testing systems to meet the specific needs of our customers. Our diverse offering includes a wide range of products and solutions to help you ensure the quality and reliability of your components and systems.

Our testing systems are characterized by their versatility. They are equipped with sources that provide precise voltage, current and frequency control. These features are critical for accurate and efficient testing of a wide variety of electronic components and devices. Whether you need to test printed circuit boards, semiconductors, electrical drives or other electronic products, our test systems are the right choice.

At REO, we understand that each test system has unique requirements.

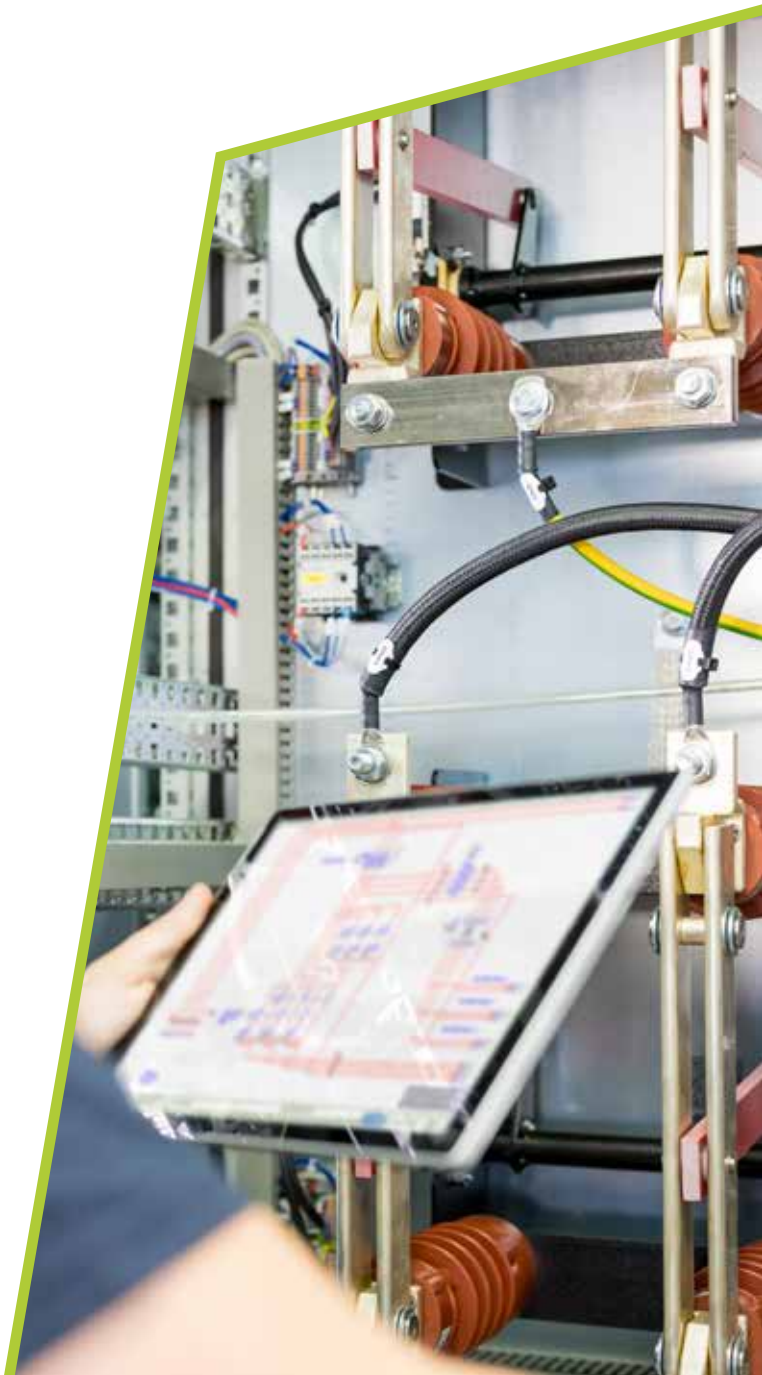
That's why we work closely with our customers to develop customized solutions that meet their exact needs. Our experienced engineers are available to assist you from concept development, through to implementation to ensure you receive the best test systems for your specific applications.

ADVANTAGES

- » *Testing systems from manual to fully automated operation.*
- » *Long-lasting functionality of the components.*
- » *Ensuring reliable test results.*
- » *Precise measurements for accurate results.*
- » *Protection against tampering and errors.*



For more information



SUSTAINABLE PRODUCTION FOR A GREENER FUTURE

SUSTAINABLE PRODUCTION AND PRODUCTS

REO takes responsibility for our environment and sees itself as an active participant in the decarbonization process. Therefore, we invest in CO2-neutral production at our sites and continuously develop our products. With the help of new technologies and new ways of thinking, we can thereby continuously reduce energy consumption and emissions.

INNOVATIONS FOR CO2 NEUTRALITY

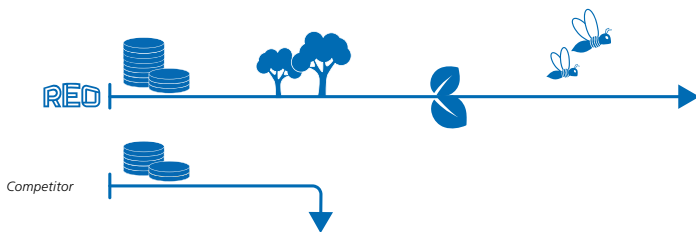
REO is on a consistent path to greater sustainability. We have set the course for a sustainable future and stand behind our ambitious goals. Our claim to be one of the leading suppliers of resistive and inductive components is based on a holistic strategy that includes all production and business areas. Learn more about our goals and our important milestones towards CO2-neutral production.

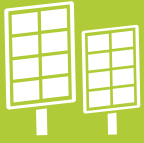
REO PRODUCTS CONSERVE RESOURCES

With REO products, you can play a part in minimizing the waste of resources and ensuring that your devices and machines benefit from a long service life and low maintenance requirements. As a result, your products and applications are provided without compromise and you can assume a working life of up to 30 years, saving financial resources just by the reduced maintenance costs.

WHAT WE PASS ON TO OUR CUSTOMERS

- » Energy saving
- » Energy efficiency
- » Cost reduction
- » Increased service life
- » Space saving
- » High functional safety and reliability
- » Fewer components are needed
- » Comprehensive protection functions





PV systems

We obtain energy through our own PV systems on the roofs of our buildings and the open spaces on our premises.



Heat pumps

With our heat pumps we rely on sustainable technology to reduce CO2 emissions in our company and protect the environment.



Renewable Energies

Renewable energy sources are a crucial part of our energy mix in Kyritz. We are actively examining the expansion and increased use of these sources at other locations in order to further reduce our CO2 emissions.



Water use

We establish systems at our locations that enable the use and recycling of rainwater and wastewater.

21%
SAVING CO2

PV-Installation at
REO AG

THE FUTURE OF VIBRATORY CONVEYOR TECHNOLOGY

MOST ENERGY-EFFICIENT CONTROL SYSTEM WORLDWIDE



REOVIB MFS 368 frequency converters

REOVIB AC-Magnets



More about
REOVIB

The REOVIB product family combines different series of control units for the most diverse requirements for the correct function of a vibrating conveyor and its material flow, no matter the application.

The controllers are available as chassis mount versions for integration into your enclosures and control boxes, as control cabinet modules for DIN-rail mounting, or self-contained units, up to IP54 and IP65 versions for direct mounting on the machine within the production area. With the help of specific inputs and outputs, the control devices of individual stations can be combined to feeding systems.

The analogue interface and numerous available fieldbus options, such as Profinet, EtherCAT and EtherNet/IP, enable the connection to higher-level controllers.

Certain versions are available with UL/CSA certification as an option.

REOVIB SMART-MIC



High quality economic phase angle controller

REOVIB MFS 268 HP



Frequency converter for high power

REOVIB MTS 443



Programmable phase angle controllers

REOVIB SWM 4000



Vibration amplitude meter

REO DIGITAL CONNECT 4.0 READY FOR INDUSTRY 4.0

With REO, you have a competent partner at your side to master the challenges of Industry 4.0. REO has equipped selected device types to be IIoT-ready for this and has launched hardware and software solutions developed in-house.



REO

REO AG

Brühler Strasse 100
D-42657 Solingen

Tel.: 0049-(0)2 12-88 04-0
Fax: 0049-(0)2 12-88 04-188

E-Mail: info@reo.de

