

Industrial Converter Solutions

REOunity - System Solutions
for Variable Speed Drives

REOUnity

The principle of compatibility and synergy.

REO's philosophy has always been the pursuit of the system concept - to provide system solutions to customers, thus enabling enhanced functionality with optimal performance.

REOUnity provides drive peripheral components of an inductive or resistive nature. Whether line reactor or harmonic filter on the input side, DC reactor or braking resistor for the DC link, chokes, and dv / dt filter, sine filter or current transformers for the output side – REO offer a multitude of solutions, according to the principle: REOUnity - all from one single source.

REOUnity

Drive Peripheral Components (1 - 350 kW)



REO Choke-Filter Combination
(500 V / 3 - 180 A)*

– for suppression of RFI noise with simultaneous reduction of harmonics (THD <60%) and line commutation issues



REOWAVEpassive (400/480 V / 6-1200 A)*

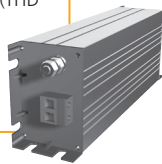
– is a harmonic filter for nonlinear loads in B6 rectifier applications to reduce harmonics to a THD of <5%



Silicium plate rectifier with press-fit diodes
(up to 510 Vdc and 1050 Adc)*

–for conversion from alternating voltage to direct voltage

–The supply of direct current operated electrical consumers from the alternating current mains.
– Insensitive to overload in short-time and high temperature change resistance.



REO EMC Filter*

– with high attenuation (upto 100 dB attenuation) in practical housings for installation flexibility and to ensure low heat dissipation.



Water-cooled base mains filter (CNW D 458 CP)

Compact base EMC filters with integrated water cooling for cold plate inverter in drive technology, industrial applications, test facilities and rail technology with water cooling. With a cooling surface, the components of the customer can be simultaneous cooled. (protection up to IP65)



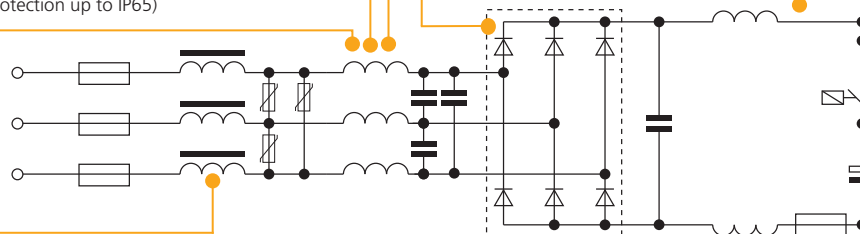
REO DC Link Chokes
(< 1000 V / 100 A)*

– to smooth the DC link current, and reduce system disturbances

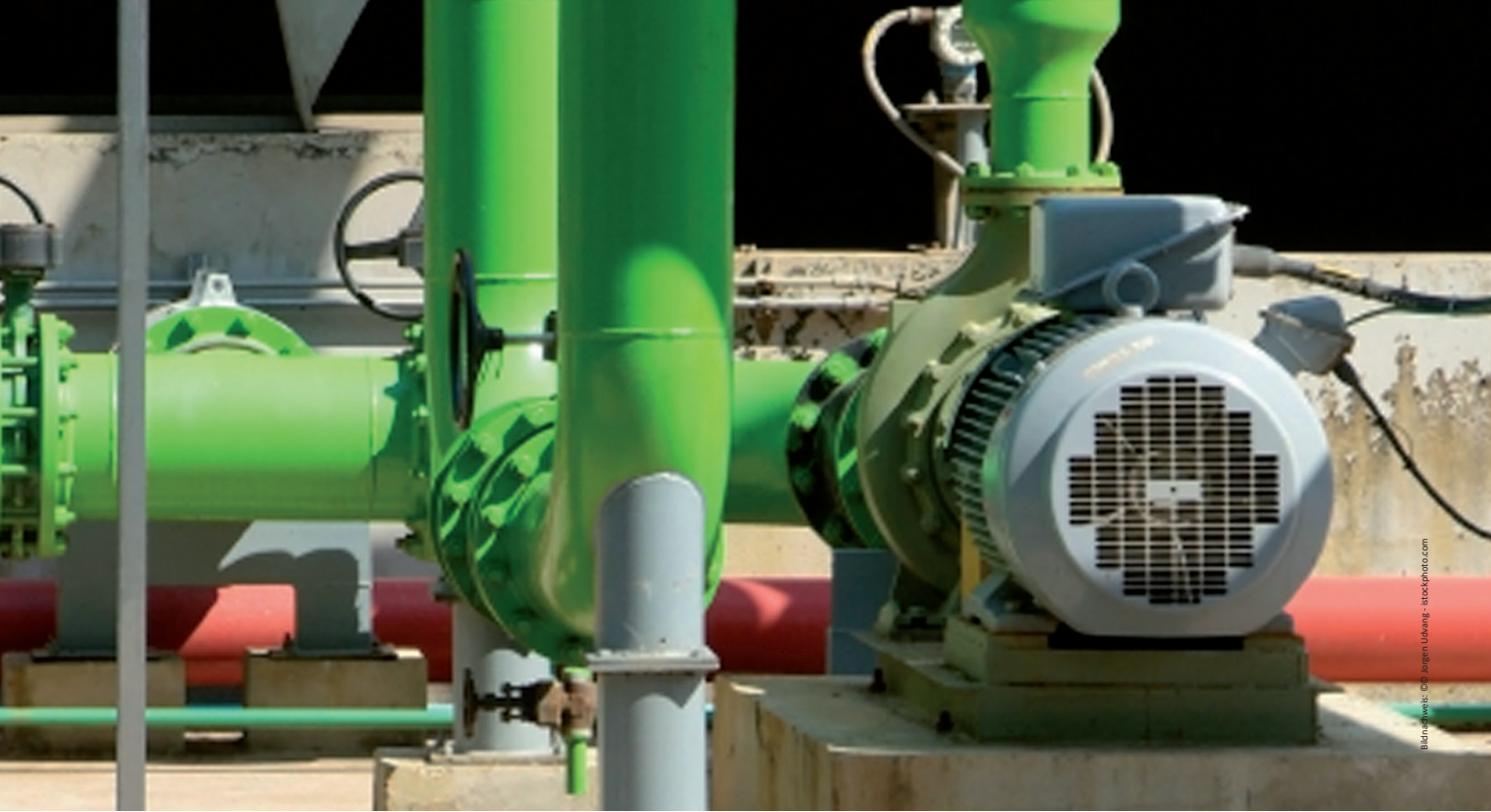


REO Line Reactors (up to 690 V / 3 - 1200 A)*

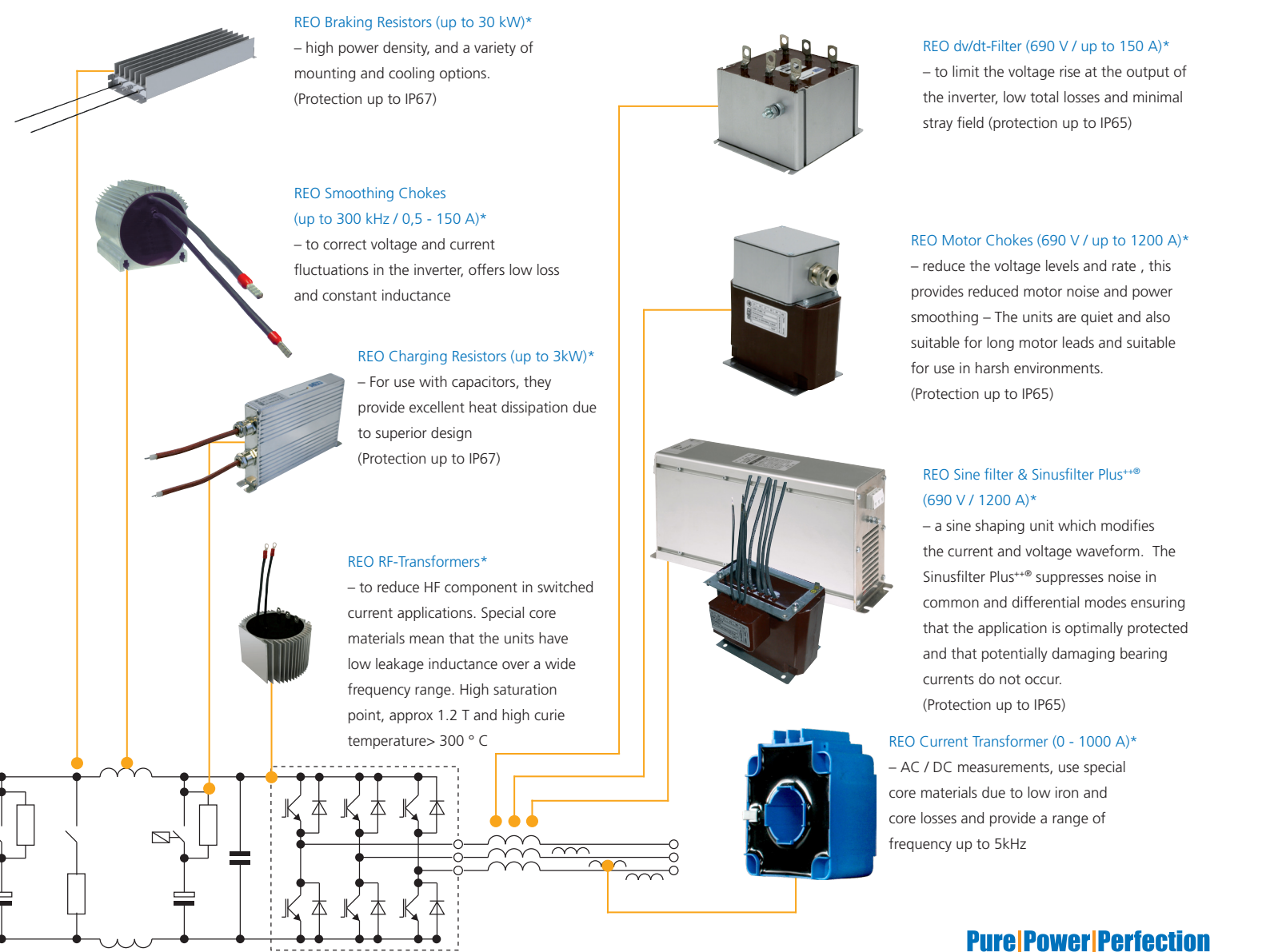
– open and encapsulated designs for protection up to IP64; used to reduce commutation losses and harmonics, very robust and with good thermal properties



*higher ratings on request



Bildnachweis: © Jorgin Udwang - iStockphoto.com



REO Braking Resistors (up to 30 kW)*

– high power density, and a variety of mounting and cooling options.
(Protection up to IP67)

REO Smoothing Chokes (up to 300 kHz / 0,5 - 150 A)*

– to correct voltage and current fluctuations in the inverter, offers low loss and constant inductance

REO Charging Resistors (up to 3kW)*

– For use with capacitors, they provide excellent heat dissipation due to superior design
(Protection up to IP67)

REO RF-Transformers*

– to reduce HF component in switched current applications. Special core materials mean that the units have low leakage inductance over a wide frequency range. High saturation point, approx 1.2 T and high curie temperature > 300 ° C

REO dv/dt-Filter (690 V / up to 150 A)*

– to limit the voltage rise at the output of the inverter, low total losses and minimal stray field (protection up to IP65)

REO Motor Chokes (690 V / up to 1200 A)*

– reduce the voltage levels and rate , this provides reduced motor noise and power smoothing – The units are quiet and also suitable for long motor leads and suitable for use in harsh environments.
(Protection up to IP65)

REO Sine filter & Sinusfilter Plus (690 V / 1200 A)***

– a sine shaping unit which modifies the current and voltage waveform. The Sinusfilter Plus** suppresses noise in common and differential modes ensuring that the application is optimally protected and that potentially damaging bearing currents do not occur.
(Protection up to IP65)

REO Current Transformer (0 - 1000 A)*

– AC / DC measurements, use special core materials due to low iron and core losses and provide a range of frequency up to 5kHz



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