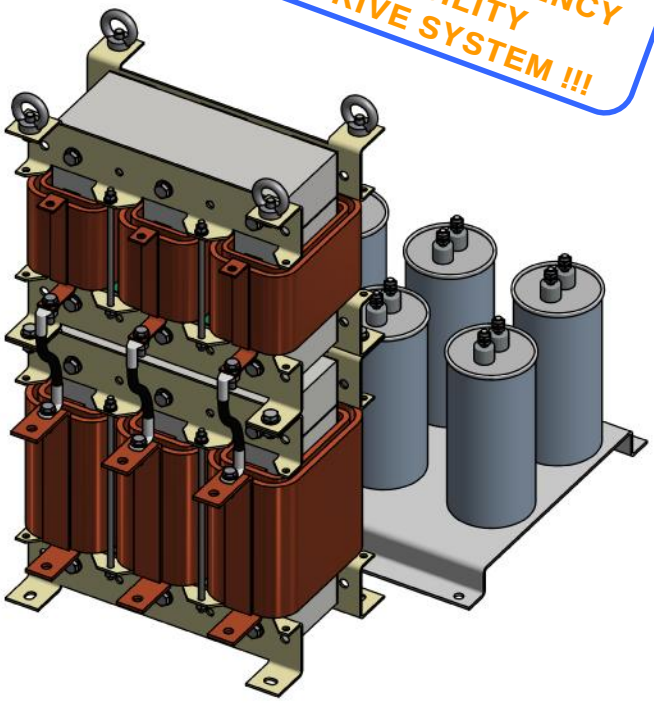
ELHANDHF ™

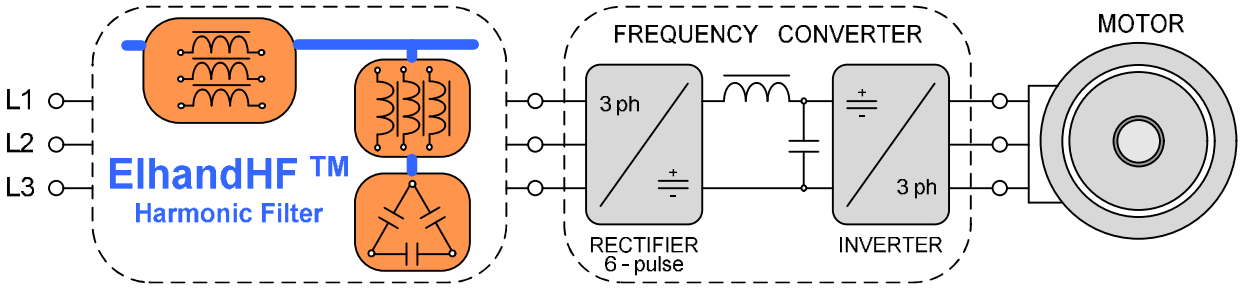
HARMONIC FILTER

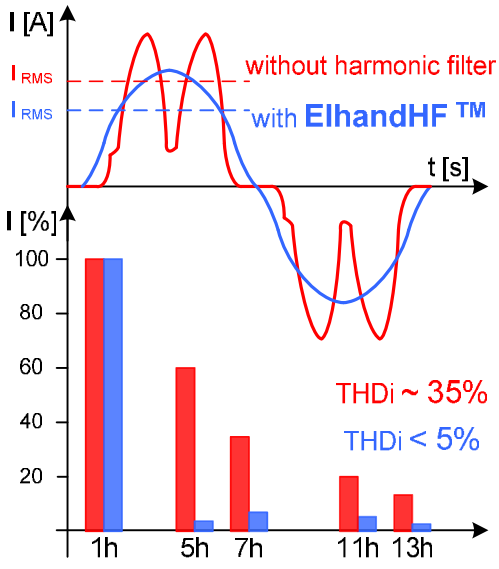
TURN ON THE POWER-SAVING MODE !!!
INCREASE THE EFFICIENCY AND RELIABILITY OF YOUR DRIVE SYSTEM !!!

- high efficiency of filtration and harmonic currents mitigation
- energy saving
- efficient alternative to multi-pulse systems
- reduction of negative impact of the inverter on the network
- compatibility of the drive according to IEEE 519-1992 and PN-EN 61000-3-12



TYPICAL APPLICATIONS :





EXAMPLES OF APPLICATIONS :

- at the input of 6-pulse frequency inverter rectifiers
- power systems with a high concentration of non-linear receivers connected to the same transformer
- as a cheaper and more efficient alternative to the 12- and 18-pulse systems
- UPS systems and industrial automation equipment
- rectifier chargers
- other nonlinear receivers

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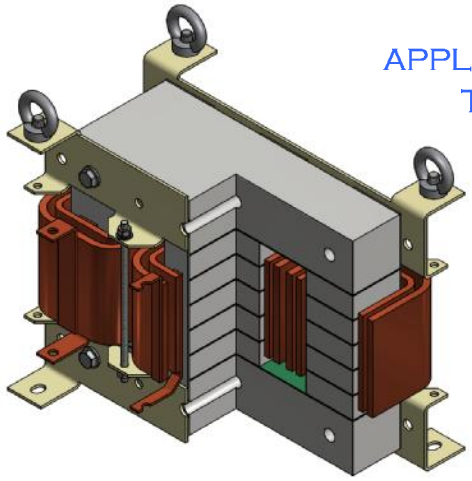
WHAT DISTIGUISHES ELHANDHF ™ FILTERS ?

- effective reduction and mitigation of harmonic currents within a wide range of load levels
- definitely lower losses, noise reduction and elimination of external leakage field resulting from the use of innovative, low-loss technology: ElhandCutCore ™
- very low consumption of capacitance current (<30%In) thanks to the use of smaller capacity
- high efficiency + natural convective cooling – this results in energy saving, longer durability and reliability (much higher than in the case of often unreliable fans)
- easy activation and operating costs reduced to a minimum
- compact design and high quality of performance



ElhandCutCore ™ TECHNOLOGY

APPLICATION OF MULTI-GAP CORES DESIGNED ACCORDING TO ElhandCutCore ™ TECHNOLOGY MEANS:

- lower losses and temperature
- low noise level
- elimination of the external magnetic field
- elimination of additional losses in structural elements
- a constant value of the filter's parameters within a wide range of changing current values

TECHNICAL SPECIFICATION:

Rated voltage	up to 690Vac ± 10%
Operating frequency	up to 60Hz ± 1Hz
Source impedance	from 1,5% up to 6%
Load	6-pulse rectifier
Rated power	up to 1200kW
Efficiency	> 98,5% for nominal power
Total harmonic current distortion THDi	< 5% for nominal power
Capacitance current	< 30% of the input current
High potential test voltage	2,5kVac (1min)
Overload capability	110% continuous 160% rated current for 1min, once per hour
Cooling	natural AN
Ambient temperature range	-25°C do +55°C during continuous work -25°C do +85°C during transport and storage
Isolation class	F(155°C) or H(180°C)
Degree of protection	IP00, IP23, IP44, IP54, IP66

* filters can be made with different parameters extending beyond the ranges given above

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