

From standard to innovative solutions:
**High quality Transformers,
 Power Supplies and Reactors**

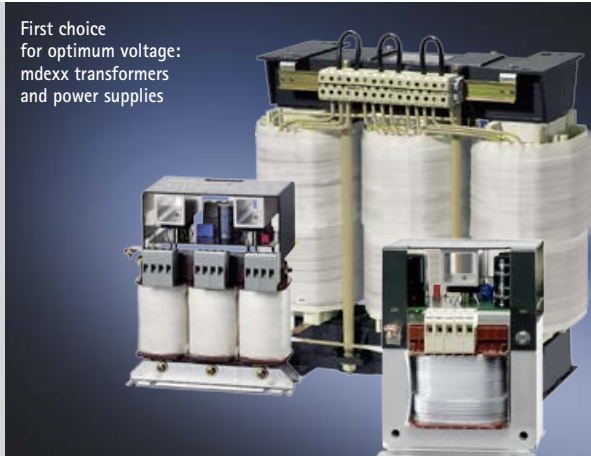
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When reliability counts:
mdexx reactors and filters



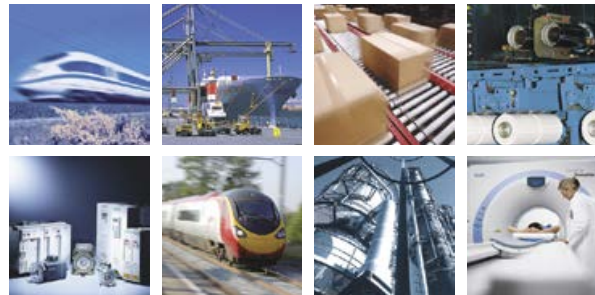
First choice
for optimum voltage:
mdexx transformers
and power supplies



Line reactors and filters for mains connection of non-linear loads, output reactors and output filters to adapt the cable length and as motor protection and filter reactors for reactive power compensation systems as standard and as well as customized products for variable speed drives and other applications

Step-up / Step-down and control transformers as well as power supplies as standard products and customized products for machines, plants and controls, drives, traction systems, ships and many other applications

Besides of our standard products we offer our know-how for customer specific products, too. Well-known customers, such as from the industries Oil & Gas, Renewable Energies, Rail Technology, Industrial Automation or Data Processing Centers rely on products of mdexx.



Reactors and filters at a glance

						
Product	Line/commutation reactors TEM, TEP, TEU	Output reactors TEP, TEU	Smoothing reactors TEM, TET	Filter reactors TEP, TEU	du / dt filter	Sine-wave filter TEF11
Function	Reduction of harmonics in the power system and of current rise speeds in the input circuit of the converter.	Increase of motor service life. Increase of system availability, option of using longer motor cables.	Reduction of harmonics and current rise speeds, permitting the use of high-speed DC switches.	Choking of reactive-power compensation systems. They form a defined resonant circuit with the power factor correction capacitors.	Reduction of the voltage rise speed at the motor terminals.	Motor supply with almost sinusoidal-like current and voltage. Increase of the motor service life and system availability.
Operating voltage	1 AC 230 V 50 Hz 1 AC 400 V 50 Hz 3 AC 480 V 60 Hz 3 AC 500 V 50 Hz 3 AC 690 V 50 Hz 3 AC 750 V 50 Hz	3 AC 500 V	TET: DC 1150 V TEM: DC 750 V	3 AC 400 V	upon request	3 AC 500 V
Power range ¹⁾	For drives of 0 to 1500 kW	For drives of 1,5 to 75 kW	For drives up to 30 kW, energy contents of 0,38 Ws to 6300 Ws	For filter bank rating of 5 to 100 kvar	upon request	For drives of 1,5 to 132 kW
Currents ¹⁾	1,5 to 5500 A	4 to 1580 A	1,75 to 15 EA	8 to 1128 A		4 to 265 A
Frequency ¹⁾	50 Hz (60 Hz) max. 200 Hz	200 Hz ¹⁾		50 Hz		150 Hz ¹⁾
Rated temperature	t _a 40 °C	t _a 40 °C	t _a 40 °C	t _a 40 °C	t _a 40 °C	t _a 40 °C
Degree of protection	IP00	IP00	IP00	IP00	IP00	IP00
Connection	Terminal, flat connector	Terminal, flat connector	Terminal, flat connector	Terminal, flat connector	Terminal, flat connector	Terminal, flat connector
Approval						
Special features	Voltage drop of 2% related to model, and/or 4%. Permissible voltage stressing: TEM 690 V AC, TEU/TEP 1000 V AC, TEP with	Applicable: • Clock frequency 4 kHz to 8 kHz • Motor cable max. 300 m unshielded, 200 m shielded	Ripples of the overlaid AC current 30%. Permissible voltage stressing: TEM 690 V AC, TET with terminals 800 V AC, TET with flat connectors 1s000 V.	Considered harmonic load: Basic wave I1 (50 Hz) = 110% 5th harmonic I5 (250 Hz) = 6% 7th harmonic I7 (350 Hz) = 5% 11th harmonic I11 (550) = 3.5% Permissible overload 5%	upon request	Applicable: • Clock frequency 4 kHz to 8 kHz • Motor cable max. 300 m unshielded, 200 m shielded