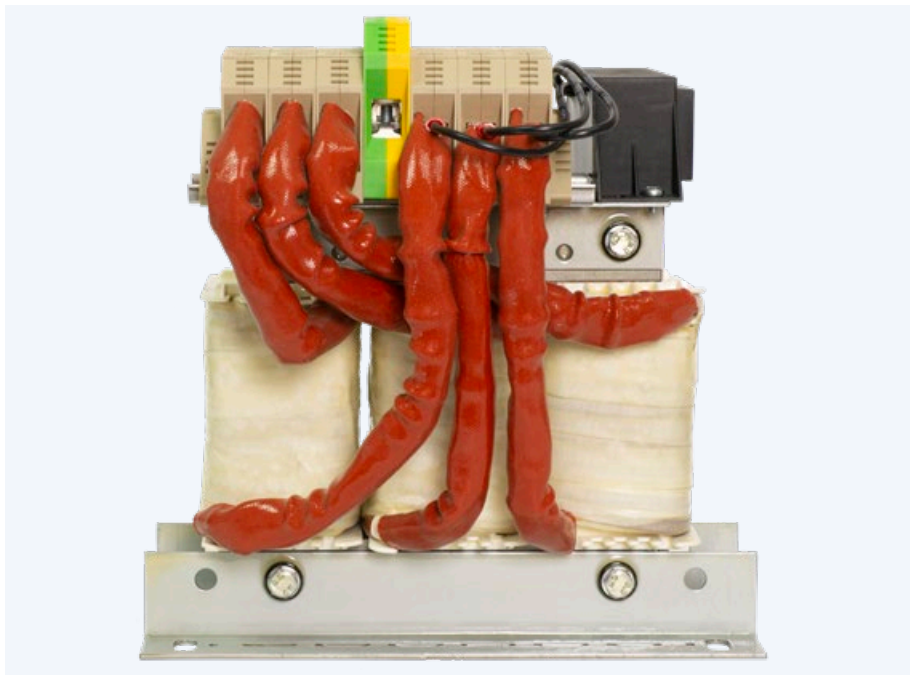


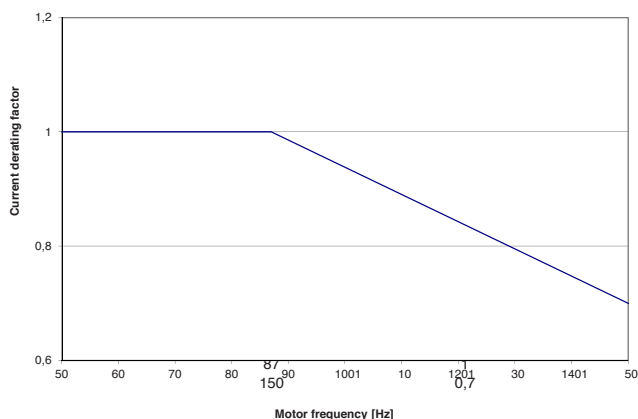
DU/DT FILTERS

Protects electric motor-reducing DU/DT value of the drive output voltage



Nominal voltage	230...690 V
Switching frequency	2-4 kHz
Impedance (uk)	1,1 % @ I _N , 50 Hz & 400V
Insulation voltage	3000 V
ED	100 %
L _{lin}	0,95 % @ 1,5 x I _N
T _a	50 °C
Temperature class	B / F
Enclosure class	0
Design corresponding to	IEC/EN 61558-2-20
Materials	UL/CSA approved

87Hz Current derating curve



Features and benefits.

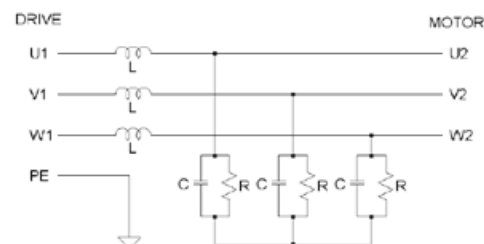
- Reduction of drive output voltage dv/dt
- Increased service life of electric motors
- Less interference propagation towards neighboring equipment or lines
- Wall-mount enclosures available for different IP-classes like IP21, IP21, IP34
- UL-listed materials
- Standards: EN 61558-2-20

DU/DT filters are differential-mode filters which reduce motor terminal phase-to-phase voltage spikes and reduce the rise time to the level that lowers the stress on the insulation of motor windings.

Compared to sine-wave filters the dU/dt filters have a cut-off frequency above the switching frequency.

They are smaller, weigh less and have a lower price compared to sine-wave filters. Because of the smaller inductance and capacitance the dU/dt are suitable for high dynamic applications.

Electrical Schematic



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Fig 1.

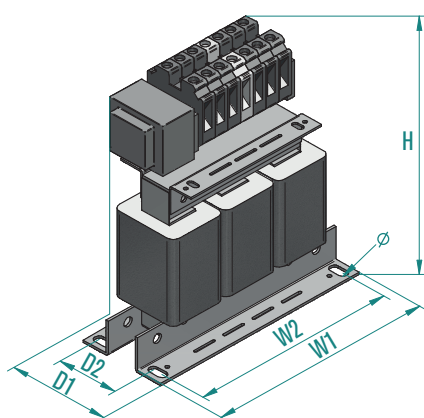
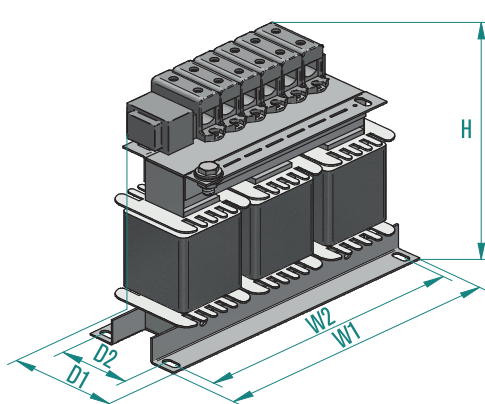


Fig 2.



FILTER SELECTION
TABLE

DIMENSIONS

Trafomic product code	IN [A]	fmax [Hz]	L [uH]	C [pF]	Drawing	H [mm]	W1 [mm]	W2 [mm]	D1 [mm]	D2 [mm]	Ø [mm]	Terminal	Earthing Terminal	Weight [kg] approx.
DVDT-11-500-003	3	200	2200	330	Fig. 1	146	125	100	73	38	5x10	6 mm ²	6 mm ²	1,2
DVDT-11-500-004	4	200	1200	680	Fig. 1	146	125	100	73	38	5x10	6 mm ²	6 mm ²	1,2
DVDT-11-500-006	5,5	200	870	680	Fig. 1	146	125	100	73	38	5x10	6 mm ²	6 mm ²	1,2
DVDT-11-500-011	11	200	600	1000	Fig. 1	146	125	100	73	38	5x10	6 mm ²	6 mm ²	1,2
DVDT-11-500-014	14	87	450	1500	Fig. 1	146	125	100	73	38	5x10	6 mm ²	6 mm ²	1,2
DVDT-11-500-020	20	200	350	1500	Fig. 1	171	150	128	81	48	5x10	10 mm ²	10 mm ²	2,6
DVDT-11-500-027	27	87	250	2200	Fig. 1	171	150	128	81	48	5x10	10 mm ²	10 mm ²	2,6
DVDT-11-500-036	36	200	180	4700	Fig. 1	199	190	173	90	52	8x16	16 mm ²	16 mm ²	5
DVDT-11-500-048	48	87	150	4700	Fig. 1	199	190	173	90	52	8x16	16 mm ²	16 mm ²	5
DVDT-11-500-072	72	200	100	6800	Fig. 1	223	220	190	105	59	8,5x18	35 mm ²	35 mm ²	7
DVDT-11-500-092	92	200	75	10000	Fig. 1	223	220	190	105	59	8,5x18	35 mm ²	35 mm ²	7
DVDT-11-500-108	108	87	70	10000	Fig. 2	251	260	243	122	65	8,5x18	95 mm ²	M10	14
DVDT-11-500-120	120	200	60	10000	Fig. 2	251	260	243	122	65	8,5x18	95 mm ²	M10	14
DVDT-11-500-168	168	87	40	15000	Fig. 2	251	260	243	122	65	8,5x18	95 mm ²	M10	15
DVDT-11-500/2-168	168	200	40	15000	Fig. 2	251	260	243	122	65	8,5x18	95 mm ²	M10	15