

DVDT-22-690-XXX dv/dt-filters

Datasheet Rev. A
4.3.2011

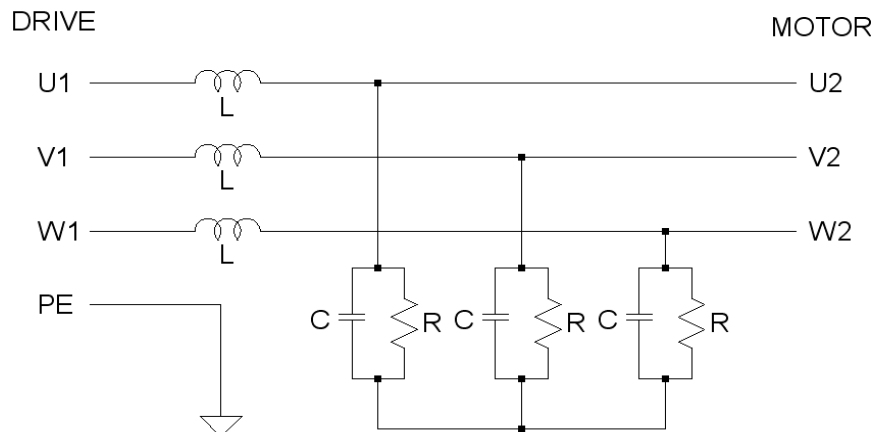
Trafomic

General Parameters

Nominal voltage	230...690 V
Motor frequency	50...150 Hz (see current derating curve)
Switching frequency	3,6 kHz @ $U_n \leq 525$ V; 1,5 kHz @ $U_n > 525$ V
Max. motor cable length	500 m*
Impedance (u_k)	2,2 % @ I_N , 50 Hz & 400V
Insulation voltage	3000 V
ED	100 %
L_{in}	0,95 % @ $1,5 \times I_n$
T_a	50 °C
Temperature class	B / F
Enclosure class	00
Design corresponding to	IEC/EN 61558-2-20
Materials	UL/CSA approved

*Depends on motor and switching frequencies, cable type and system stray parameters.

Electrical Schematic



Filter selection table

Trafomic product code	I_N [A]	L [uH]	C [pF]	P_{loss} [W]**	dT @ I_n [K]**	Drawing	H [mm]	W [mm]	w [mm]	D [mm]	d [mm]	Ø [mm]	Terminal	Weight [kg]
DVDT-22-690-008	8	2022	330	25	55	Fig. 1	142	96	50	46	34	4,5x8,5	CBD.4	1,2
DVDT-22-690-015	15	1078	680	40	65	Fig. 1	165	120	65	54	41	5x10	CBD.10	2,1
DVDT-22-690-023	23	703	1000	45	70	Fig. 1	165	120	65	64	51	5x10	CBD.10	2,8
DVDT-22-690-042	42	385	1500	65	90	Fig. 1	193	150	80	67	49	5x10	CBD.16	4,0
DVDT-22-690-062	62	261	2200	70	90	Fig. 1	196	150	80	82	64	5x10	CBD.35	6,0
DVDT-22-690-100	100	162	4700	75	90	Fig. 1	212	180	100	96	78	7x13	CBD.35	10
DVDT-22-690-160	160	101	6800	120	90	Fig. 2	235	230	173	138	64	8,5x18	OL25-95	18
DVDT-22-690-220	220	74	10000	140	90	Fig. 2	265	265	190	152	74	8,5x18	OL25-95	25
DVDT-22-690-325	325	50	15000	170	90	Fig. 2	265	265	190	188	100	8,5x18	OL95-185	35
DVDT-22-690-430	430	38	15000	200	90	Fig. 2	295	300	220	162	82	8,5x18	2xOL25-95	45
DVDT-22-690-510	510	32	22000	230	90	Fig. 2	295	300	220	202	122	8,5x18	2xOL25-95	60
DVDT-22-690-600	600	27	22000	250	90	Fig. 2	361	365	264	228	139	10x18	2xOL25-95	80
DVDT-22-690-750	750	22	33000	330	90	Fig. 2	415	425	316	201	141	12x18	2xOL95-185	110
DVDT-22-690-840	840	19	33000	350	90	Fig. 2	415	425	316	214	171	12x18	2xOL185-300	130

**Temperature rises and power losses based on harmonic currents $I_{15} = 2,0$ %, $I_{3*15} = 0,7$ % & $I_{5*15} = 0,4$ %

Dimensions

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Technical drawings

Fig. 1:

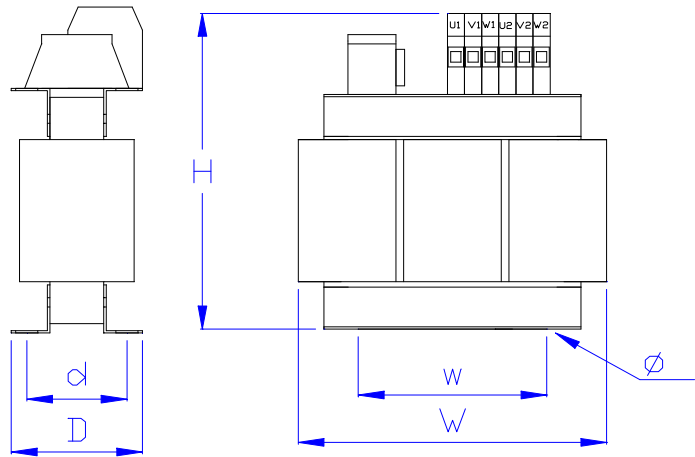
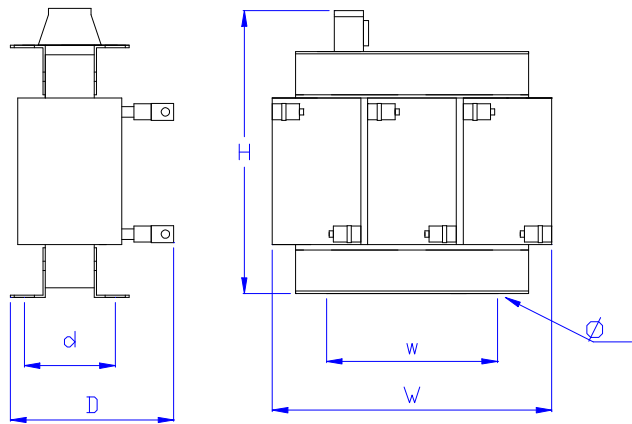
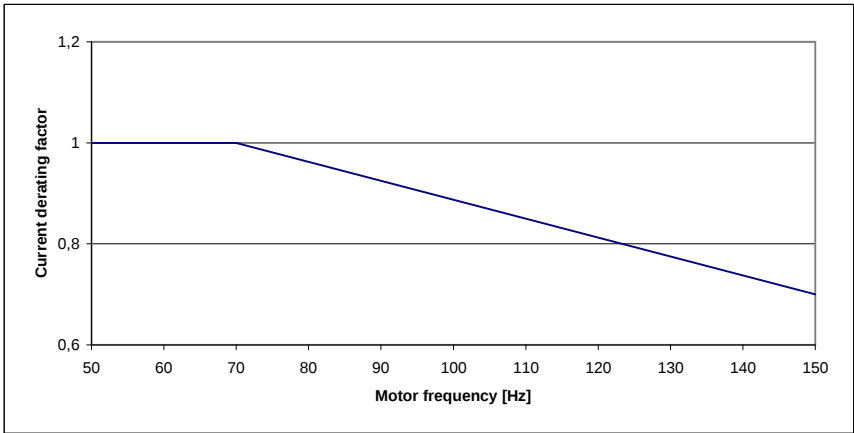


Fig. 2:



Current derating curve



Compatibility table

Platthaus			Trafomic (Un = 690 V)		
type	Un [V]	In [A]		type	In [A]
910-920	500	8	→	DVDT-22-690-008	8
914-932	690	14	→	DVDT-22-690-015	15
914-931	500	15			
917-932	690	23	→	DVDT-22-690-023	23
918-952	690	35			
918-951	500	42	→	DVDT-22-690-042	42
923-928	690	62	→	DVDT-22-690-062	62
923-927	500	96			
928-937	690	100	→	DVDT-22-690-100	100
943-970	690	145			
942-1044	500	160	→	DVDT-22-690-160	160
945-1001	500	220			
945-1002	690	222	→	DVDT-22-690-220	220
957-931	690	287			
957-930	500	325	→	DVDT-22-690-325	325
968-912	690	360			
968-911	500	410	→	DVDT-22-690-430	430
969-911	690	430			
970-918	500	510	→	DVDT-22-690-510	510
976-903	500	600	→	DVDT-22-690-600	600
982-907	500	750	→	DVDT-22-690-750	750
983-909	500	840	→	DVDT-22-690-840	840