

Three-phase protection chokes for capacitor battery 3x440V in distribution network 3x400V with 3EI lamination, covering IP00 ($p=7\%$, $f_{rez}=189\text{Hz}$). Inductance tolerance $\pm 2\%$. The chokes include thermal cut-off 130°C, 250V, 2,5A.

We desing chokes with another parameters (than parameters in table below) after consultation with designers.

Rank of protection chokes for compensating devices <i>basic construction</i>					
Max. level of higher harmonics $I_1=I_n = 100\%$, $I_3 = 2,3\%$, $I_5 = 33\%$, $I_7 = 9,8\%$, $I_{11} = 3,8\%$ $I_{ef}/I_n = 1,06$, $I_{sat}/I_n > 1,65$, Overload / $I_n = 1,1$					
Marking	Output power of capacitor block	Compensating block		Losses at I_n	Weight (orientation)
	Q_c [kVAr]	Q_{kb} [kVAr]	I_n [A]	[W]	[kg]
TTC 3x2030	2,5	2,2	3,2	20	2,5
TTC 3x2525	5	4,4	6,4	36	3,5
TTC 3x2541	6,25	5,6	8	44	4,7
TTC 3x3031	10	8,9	12,8	54	6,1
TTC 3x3041	12,5	11,1	16	56	7,3
TTC 3x3840	20	17,8	25,7	82	11,5
TTC 3x4040	25	22,2	32,1	102	12,8
TTC 3x4060	30	26,7	38,5	105	18,3
TTC 3x4460	40	35,5	51,3	120	22,4
TTC 3x4460	45		57,7	120	24,5
TTC 3x5052	50	44,4	64,1	150	25

Rank of protection chokes for compensating devices <i>with increased overload resintance and higher harmonics resistance (decreased losses and heating)</i>					
Max. level of higher harmonics $I_1=I_n = 100\%$, $I_3 = 4,5\%$, $I_5 = 66\%$, $I_7 = 19,5\%$, $I_{11} = 7,5\%$, $I_{ef}/I_n = 1,22$, $I_{sat}/I_n > 1,65$, Overload / $I_n = 1,2$					
Marking	Output power of capacitor block	Compensating block		Losses at I_n	Weight (orientation)
	Q_c [kVAr]	Q_{kb} [kVAr]	I_n [A]	[W]	[kg]
TTC 3x2030	2,5	2,2	3,2	12	2,8
TTC 3x2525	5	4,4	6,4	19,5	4,2
TTC 3x2541	6,25	5,6	8	22,4	5,5
TTC 3x3031	10	8,9	12,8	33	7
TTC 3x3041	12,5	11,1	16	36	9
TTC 3x3840	20	17,8	25,7	45	14,8
TTC 3x4050	25	22,2	32,1	48	19
TTC 3x4060	30	26,7	38,5	55	22,4
TTC 3x5052	40	35,5	51,3	78	27
TTC 3x5052	50	44,4	64,1	95	28
TTC 3x50103	60	53,3	77	86	57



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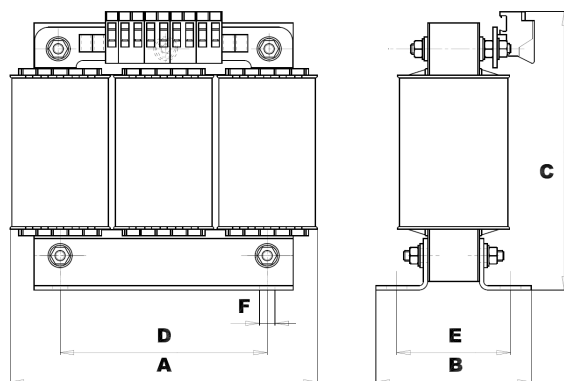


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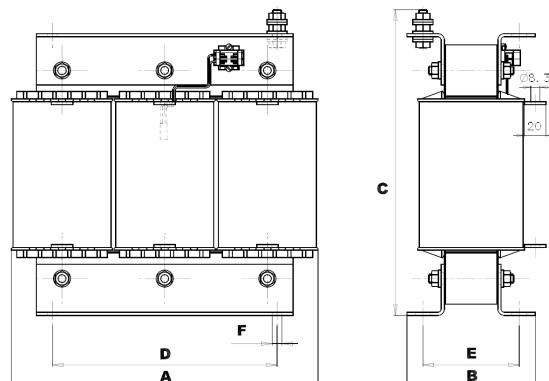
SV

Terminal block - 4mm²



PR

Cu flag 3x20 diam. 8,4mm



Marking	Design	Dimensions [mm]					
		A	B	C	D	E	F
TTC 3x2030	SV	120	90	120	80	63	6,2
TTC 3x2525	SV	150	87	142	100	60	6,5
TTC 3x2541	SV	150	102	142	100	75	6,5
TTC 3x3031	SV	178	92	165	120	66	9
TTC 3x3041	SV	178	102	165	120	76	9
TTC 3x3840	SV	226	123	207	152	96	9
TTC 3x4040	PR	240	97	248	180	75	10
TTC 3x4050	PR	240	110	248	180	85	10
TTC 3x4060	PR	240	120	248	180	95	10
TTC 3x4460	PR	261	122	268	200	92	9
TTC 3x4850	PR	290	122	290	210	90	9
TTC 3x5052	PR	297	125	303	224	95	9
TTC 3x50103	PR	294	173	303	224	146	9