

High Voltage Shunt Capacitors

Application

High voltage shunt capacitors are used to improve the power factor in the AC power system (50Hz or 60Hz) and increase the quality of the electric network. They are in full line with GB/T 11024.1 and DL/T 840 standards.



Operation condition

1. Altitude is below 1000m, if the altitude is above 1000m, please inform us in advance;
2. Environmental temperature: $-40^{\circ}\text{C} \sim +45^{\circ}\text{C}$;
3. There must be no violent vibration, no harmful gas, no conducting or explosive dust in the surrounding environment;
4. The residual voltage between the terminals must be lower than 10% of rated voltage before the capacitor is put into operation.

Technical parameters

1. Rated voltage: 1.05; 3.15; $6.6/\sqrt{3}$; 6.3; $10.5/\sqrt{3}$; 10.5; $11/\sqrt{3}$; 11; 11/2; 12/2; $12/\sqrt{3}$; 12; $24/\sqrt{3}$; 24kV;
2. Rated power: 100; 150; 200; 300; 334; 400; 417; 500; 667kVA.
3. Tolerance of capacitance: -5%~+5%; For 3 phase capacitors, the maximum capacitance value divided by the minimum capacitance value between any of the two terminals is less than 1.02;
4. The withstand voltages between the shell and the terminal is shown as the below table.

Rated voltage kV	Insulation level kV	Power frequency withstand voltage (wet and dry condition) for 10 seconds (kV)	Lightning impulse test (positive and negative) 1.2~5/50 μ s (kV)
3.15	3	18/25	40
6.6/ $\sqrt{3}$; 6.3	6	23/30	60
10.5/ $\sqrt{3}$; 10.5; 11/ $\sqrt{3}$; 11; 11/2; 12/2; 12/ $\sqrt{3}$; 12	10	30/42	75
24; 24/ $\sqrt{3}$	20	50/65	125

Different models available or custom made

No.	Model	Rated voltage (kV)	Rated power (kVA)	Rated capacitance (μ F)	Weight (kgs)
1	SBFM6.6/ $\sqrt{3}$ -50-1W	6.6/ $\sqrt{3}$	50	11.0	18
2	SBFM6.6/ $\sqrt{3}$ -100-1W	6.6/ $\sqrt{3}$	100	21.9	28
3	SBFM6.6/ $\sqrt{3}$ -200-1W	6.6/ $\sqrt{3}$	200	43.8	45
4	SBAM6.6/ $\sqrt{3}$ -334-1W	6.6/ $\sqrt{3}$	334	73.2	56
5	SBAM6.6/ $\sqrt{3}$ -400-1W	6.6/ $\sqrt{3}$	400	87.7	64
6	SBAM6.6/ $\sqrt{3}$ -417-1W	6.6/ $\sqrt{3}$	417	91.4	67
7	SBFM11-50-1W	11	50	1.32	18
8	SBFM11-100-1W	11	100	2.63	28
9	SBFM11-200-1W	11	200	5.26	45
10	SBAM11-334-1W	11	334	8.79	56
11	SBAM11-400-1W	11	400	10.5	64
12	SBAM11-417-1W	11	417	11.0	67
13	SBFM12-50-1W	12	50	1.11	18
14	SBFM12-100-1W	12	100	2.21	28
15	SBFM12-200-1W	12	200	4.42	45
16	SBAM12-334-1W	12	334	7.38	56
17	SBAM12-400-1W	12	400	8.84	64
18	SBAM12-417-1W	12	417	9.22	67
19	SBAM12-500-1W	12	500	11.1	77
20	SBFM6.6-100-3W	6.6	100	7.31	47
21	SBFM6.6-200-3W	6.6	200	14.6	56
22	SBFM6.6-300-3W	6.6	300	21.9	72
23	SBFM11-100-3W	11	100	2.63	47
24	SBFM11-200-3W	11	200	5.29	56
25	SBFM11-300-3W	11	300	7.89	72

26	SBFM12-100-3W	12	100	2.21	47
27	SBFM12-200-3W	12	200	4.42	56
28	SBAM24/2 $\sqrt{3}$ -417-1W	24/2 $\sqrt{3}$	417	27.7	69
29	SBAM24/2 $\sqrt{3}$ -500-1W	24/2 $\sqrt{3}$	500	33.2	79