

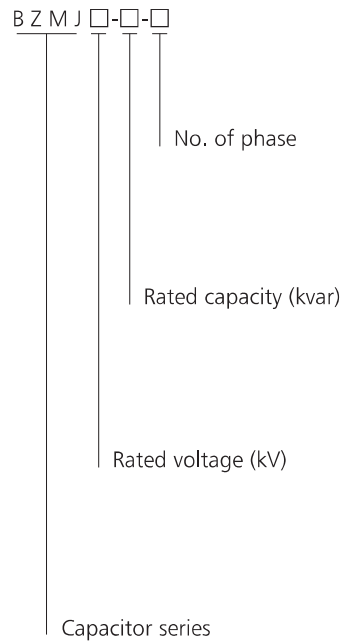


BZMJ Self-healing Shunt Capacitor

1. General

- 1.1 Electric ratings: $\leq AC1000V$;
- 1.2 Application: For improvement of power factor and power quality
- 1.3 Standards: IEC/EN 60831-1:2002

2. Type designation



3. Operating conditions

- 3.1 Ambient temperature: $-25^{\circ}C \sim +50^{\circ}C$
- 3.2 Relative humidity: $\leq 50\%$ at $40^{\circ}C$, $\leq 90\%$ at $20^{\circ}C$
- 3.3 Altitude: $\leq 2000m$
- 3.4 Environmental conditions:
without dangerous gas & steam,
insulated and explosive dust
and dramatic mechanical vibration.

4. Technical data

- 4.1 Rated voltage: AC(0.23~1.0)kV
- 4.2 Rated frequency: 50Hz or 60Hz.
- 4.3 Rated capacity: 1~60Kvar
- 4.4 Capacity error: $-5\% \sim +10\%$
- 4.5 Dielectric loss tangent value:
 $\leq 30kvar$ $tgs \leq 0.0012$
 $> 30kvar$ $tgs \leq 0.0015$
at rated power frequency voltage.
- 4.6 Max. Allowed over-voltage: $1.1U_n$
- 4.7 Max. Allowed over-current: $1.3I_n$
- 4.8 Having Self-discharging property: power off,
voltage reduces from $\sqrt{2} U_n$ to 75V and below within 3min.
- 4.9 Specific data

Serial number	Type and Specification	Rated voltage (kV)	Rated capacity (kvar)	Rated frequency (Hz)	Rated capacitor (μF)	Rated current (A)	Enclosure height (mm)	Figure
1	BZMJ 0.23-5-3	0.23	5	50	301	12.5	140	Fig1
2	BZMJ 0.23-6-3	0.23	6	50	361	15.1	190	Fig1
3	BZMJ 0.23-7.5-3	0.23	7.5	50	451	18.8	190	Fig1
4	BZMJ 0.23-10-3	0.23	10	50	602	25.1	195	Fig2
5	BZMJ 0.23-12-3	0.23	12	50	722	30.1	220	Fig2
6	BZMJ 0.23-15-3	0.23	15	50	903	37.7	250	Fig2
7	BZMJ 0.23-20-3	0.23	20	50	1203	50.2	250	Fig3
8	BZMJ 0.4-3-3	0.4	3	50	60	4.3	95	Fig1
9	BZMJ 0.4-5-3	0.4	5	50	99	7.2	95	Fig1
10	BZMJ 0.4-6-3	0.4	6	50	119	8.7	120	Fig1
11	BZMJ 0.4-7.5-3	0.4	7.5	50	149	10.8	120	Fig1
12	BZMJ 0.4-8-3	0.4	8	50	159	11.5	120	Fig1
13	BZMJ 0.4-10-3	0.4	10	50	199	14.4	140	Fig1
14	BZMJ 0.4-12-3	0.4	12	50	239	17.3	190	Fig1
15	BZMJ 0.4-14-3	0.4	14	50	279	20.2	190	Fig1
16	BZMJ 0.4-15-3	0.4	15	50	298	21.7	190	Fig1
17	BZMJ 0.4-16-3	0.4	16	50	318	23.1	190	Fig1
18	BZMJ 0.4-18-3	0.4	18	50	358	26.0	220	Fig1
19	BZMJ 0.4-20-3	0.4	20	50	398	28.9	220	Fig1
20	BZMJ 0.4-25-3	0.4	25	50	497	36.1	220	Fig2
21	BZMJ 0.4-30-3	0.4	30	50	597	43.3	250	Fig2
22	BZMJ 0.4-40-3	0.4	40	50	796	57.7	250	Fig3
23	BZMJ 0.4-50-3	0.4	50	50	995	72.2	315	Fig3
24	BZMJ 0.4-60-3	0.4	60	50	1194	86.6	315	Fig3
25	BZMJ 0.45-3-3	0.45	3	50	47	3.8	120	Fig1
26	BZMJ 0.45-5-3	0.45	5	50	79	6.4	120	Fig1
27	BZMJ 0.45-6-3	0.45	6	50	94	7.7	120	Fig1
28	BZMJ 0.45-7.5-3	0.45	7.5	50	118	9.6	120	Fig1
29	BZMJ 0.45-8-3	0.45	8	50	126	10.3	120	Fig1
30	BZMJ 0.45-10-3	0.45	10	50	157	12.8	140	Fig1
31	BZMJ 0.45-12-3	0.45	12	50	189	15.4	190	Fig1
32	BZMJ 0.45-14-3	0.45	14	50	220	18.0	190	Fig1
33	BZMJ 0.45-15-3	0.45	15	50	236	19.2	190	Fig1
34	BZMJ 0.45-16-3	0.45	16	50	252	20.5	190	Fig1
35	BZMJ 0.45-18-3	0.45	18	50	283	23.1	220	Fig1
36	BZMJ 0.45-20-3	0.45	20	50	314	25.7	220	Fig1
37	BZMJ 0.45-25-3	0.45	25	50	393	32.1	220	Fig2
38	BZMJ 0.45-30-3	0.45	30	50	472	38.5	250	Fig2
39	BZMJ 0.45-40-3	0.45	40	50	629	51.3	250	Fig3
40	BZMJ 0.45-50-3	0.45	50	50	786	64.2	315	Fig3
41	BZMJ 0.45-60-3	0.45	60	50	943	77.0	315	Fig3
42	BZMJ 0.525-5-3	0.525	5	50	58	5.5	120	Fig1
43	BZMJ 0.525-10-3	0.525	10	50	115	11.0	140	Fig1
44	BZMJ 0.525-15-3	0.525	15	50	173	16.5	190	Fig1
45	BZMJ 0.525-20-3	0.525	20	50	231	22.0	220	Fig1
46	BZMJ 0.525-25-3	0.525	25	50	289	27.5	220	Fig2
47	BZMJ 0.525-30-3	0.525	30	50	346	33.0	250	Fig2
48	BZMJ 0.525-40-3	0.525	40	50	462	44.0	250	Fig3
49	BZMJ 0.525-50-3	0.525	50	50	577	55.0	315	Fig3
50	BZMJ 0.525-60-3	0.525	60	50	693	66.0	315	Fig3



Serial number	Type and Specification	Rated voltage (kV)	Rated capacity (kvar)	Rated frequency (Hz)	Rated capacitor (μF)	Rated current (A)	Enclosure height (mm)	Figure
51	BZMJ 0.69-5-3	0.69	5	50	33	4.2	95	Fig1
52	BZMJ 0.69-10-3	0.69	10	50	67	8.4	140	Fig1
53	BZMJ 0.69-15-3	0.69	15	50	100	12.6	190	Fig1
54	BZMJ 0.69-20-3	0.69	20	50	134	16.7	220	Fig1
55	BZMJ 0.69-25-3	0.69	25	50	167	20.9	220	Fig2
56	BZMJ 0.69-30-3	0.69	30	50	201	25.1	250	Fig2
57	BZMJ 0.69-40-3	0.69	40	50	267	33.5	250	Fig3
58	BZMJ 0.69-50-3	0.69	50	50	334	41.8	315	Fig3
59	BZMJ 0.69-60-3	0.69	60	50	401	50.2	315	Fig3
60	BZMJ 1.14-10-3	1.14	10	50	25	5.1	220	Fig1
61	BZMJ 1.14-15-3	1.14	15	50	37	7.6	250	Fig2
62	BZMJ 0.4-7.5-3YN	0.4	7.5	50	149	10.8	195	Fig2*
63	BZMJ 0.4-10-3YN	0.4	10	50	199	14.4	195	Fig2*
64	BZMJ 0.4-15-3YN	0.4	15	50	298	21.7	250	Fig2*
65	BZMJ 0.4-20-3YN	0.4	20	50	398	28.9	250	Fig3*

Note: The specifications marked with "*" are used for compensating the individual phase, the bigger one of the four terminals should be connected to the neutral line.

5. Features

- 5.1 Compact design and reliable quality thanks to advanced technology and excellent imported material;
- 5.2 Available for use in places with higher ambient temperature and voltage variation ;
- 5.3 Having good sealing properties; amd outgoing terminals for convenient wiring and reliable connection;
- 5.4 Fixed type, convenient for mounting and elegant appearance due to novel mounting pins;
- 5.5 No painting thanks to coated metal Enclosure used ;

6. Note

- 6.1 Please guarantee that the capacitors are operated under specified conditions, including the proper temperature, voltage and current, as over-voltage and over-current may shorten the life of the capacitor;
- 6.2 Please pay attention to the points following when the capacitor is shuntly connected in the system
 - a. For the system of current regulating system and the electric equipments system, the capacitor should not be directly connected;
 - b. Operational current of the capacitor should be less than the off-load current of the shuntly connected motor;
 - c. When the transformer is off-load, the capacitor should stop operating.
- 6.3 Specific switches, contactors and over-current relays should be adopted when the capacitor is shuntly connected in the system.

7. Overall and mounting dimensions (mm)

Figure 1

Figure 2

Figure 3

