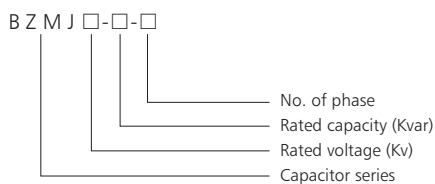


BZMJ series Self-healing Shunt Capacitor

1. General

- 1.1 Electric ratings: $\leq AC1000V$;
- 1.2 Application: For improvement of power factor and power quality;
- 1.3 Standards: IEC/EN 60831-1:1996

2. Type Designation



3. Normal Operation & Mounting 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: AC0.23~1.0kV
- 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: ≤ 0.0012 , 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	Rated capacity	Rated frequency	Rated capacity	Rated current	Enclosure height	Figure
1	BZMJ 0.23-5-3	0.23	5	50	301	12.5	190	Fig1
2	BZMJ 0.23-6-3	0.23	6	50	361	15.1	220	Fig1
3	BZMJ 0.23-7.5-3	0.23	7.5	50	451	18.8	195	Fig2
4	BZMJ 0.23-10-3	0.23	10	50	602	25.1	220	Fig2
5	BZMJ 0.23-12-3	0.23	12	50	722	30.1	250	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	315	Fig3
8	BZMJ 0.4-3-3	0.4	3	50	60	4.3	120	Fig1
9	BZMJ 0.4-5-3	0.4	5	50	99	7.2	120	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

Serial number	Type and Specification	Rated voltage	Rated capacity	Rated frequency	Rated capacity	Rated current	Enclosure height	Figure
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	195	Fig2
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	195	Fig2
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	195	Fig2
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
51	BZMJ 0.69-5-3	0.69	5	50	33	4.2	120	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	195	Fig2
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

Serial number	Type and Specification	Rated voltage	Rated capacity	Rated frequency	Rated capacity	Rated current	Enclosure height	Figure
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	220	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	315	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. Notices

- 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)

