

BSMJ series self-healing LV Shunt capacitors



Brief

It is used in an AC power system with rated voltage less than 1.2kV to increase power factor to reduce reactive loss and to improve voltage quality.

Main Features

a. Novel in structure, light in weight

It is produced with Zinc-and-aluminum metallized polypropylene film as the medium so the dimension and the weight is respectively only the 1/4 and 1/5 of the old.

b. Low loss

Because the actual value is less than 0.12%, energy loss of the capacitor itself is few, the raised temperature is low, operation life is long and it has outstanding saving energy result.

c. Good self-healing performance

Medium partial impulse caused by the over voltage can be healed by itself to operate as before.

d. Safety

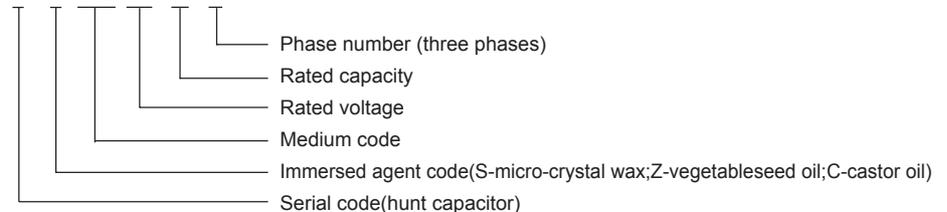
It is very reliable because the discharge and insurance devices are installed in it.

e. No omitted oil

Its main immersed agent is the micro-crystal wax, which is solid at normal temperature, its drop-point and dissoluble-point are both above 70°C and it won't omit operating, so it won't pollute the surroundings.

Mode & Implication

B S MJ₂ 0.4 -15 - 3



The subscript 2 of BSMJ₂ represents impedance coil in the capacitor.

Main Technical Parameter

- Usage environment: surrounding temperature is -25°C ~ +50°C, the humidity is less than 85%, the altitude is below 2000m.
- Rated voltage: 0.23~1.2kV, AC.
- Rated capacity: 1 ~ 60kvar.
- Capacity deviation: 0 ~ +10%.
- Tangent of the dielectric loss angle: In the power frequency rated voltage, 20°C is less than 0.2%.
- Withstand voltage between the poles: the rated voltage is 5s if the voltage between the poles is 2.15.
- Maximum permitted over-voltage: it is 1.10 as the rated voltage.
- Permitted over-current: it is 1.30 as the rated current.
- Automatically discharge: It is less than 50V in 3min after power broke down when the Dc is $\sqrt{2}U_n$ as the before increased by the capacitors.
- It conforms to the standards GB12747-1991 and IEC60831-1996.

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Table of The Main Specification And the Overall Dimension

The overall dimension of the single-phase products and the products installed impedance coil is equal to the three-phase ones. Order by the contract if the other specification is needed.

Main Specification & Overall Dimension

NO.	Type BSMJ BZMJ BCMJ BGMJ	Rated Volt. age (kV)	Rated Capacity (kvar)	Tatel capacitance (μ F)	Rated current (A)	Type & Heiht H(mm)
1	0.23-3-1	0.23	3	180.7	13	A Type 110
2	0.23 \bar{A} 3-3-3	0.23	3	60.2	4.3	A Type 110
3	0.23-5-1	0.23	5	301.2	21.7	A Type 220
4	0.23 \bar{A} 3-5-3	0.23	5	100.4	7.2	A Type 220
5	0.23-7.5-1	0.23	7.5	451.8	32.6	A Type 220
6	0.23 \bar{A} 3-7.5-3	0.23	7.5	150.6	10.8	A Type 220
7	0.23-10-1	0.23	10	602.4	43.5	B Type 220
8	0.23 \bar{A} 3-10-3	0.23	10	200.8	14.5	B Type 220
9	0.23-15-1	0.23	15	903.6	65.2	B Type 270
10	0.23 \bar{A} 3-15-3	0.23	15	301.2	21.7	B Type 270
11	0.4-3-3	0.4	3	59.7	4.3	A ₁ Type 105
12	0.4-5-3	0.4	5	99.5	7.2	A ₂ Type 110
13	0.4-6-3	0.4	6	119.4	8.7	A ₂ Type 130
14	0.4-7.5-3	0.4	7.5	149.2	10.8	A ₂ Type 130
15	0.4-8-3	0.4	8	159.2	11.5	A ₂ Type 130
16	0.4-10-3	0.4	10	198.9	14.4	A Type 185
17	0.4-12-3	0.4	12	238.7	17.3	A Type 185
18	0.4-14-3	0.4	14	278.5	20.2	A Type 185
19	0.4-15-3	0.4	15	298.4	21.7	A Type 185
20	0.4-16-3	0.4	16	318.3	23.1	A Type 185
21	0.4-18-3	0.4	18	358.1	26	A Type 220
22	0.4-20-3	0.4	20	397.9	28.9	A Type 245
23	0.4-25-3	0.4	25	497.4	36.1	B Type 210
24	0.4-30-3	0.4	30	596.8	43.3	B Type 240
25	0.4-40-3	0.4	40	795.8	57.7	C Type 210
26	0.4-50-3	0.4	50	994.7	72.2	C Type 230
27	0.4-60-3	0.4	60	1193.7	86.6	C Type 270
28	0.415-3-3	0.415	3	55.4	4.2	A ₁ Type 105
29	0.415-5-3	0.415	5	92.4	7	A ₂ Type 110
30	0.415-6-3	0.415	6	110.9	8.3	A ₂ Type 130
31	0.415-7.5-3	0.415	7.5	138.6	10.4	A ₂ Type 130
32	0.415-8-3	0.415	8	147.9	11.1	A ₂ Type 130
33	0.415-10-3	0.415	10	184.8	13.9	A Type 185
34	0.415-12-3	0.415	12	221.8	16.7	A Type 185
35	0.415-14-3	0.415	14	258.6	19.5	A Type 185
36	0.415-15-3	0.415	15	277.2	20.9	A Type 185
37	0.415-16-3	0.415	16	295.7	22.3	A Type 185
38	0.415-18-3	0.415	18	332.7	25	A Type 220
39	0.415-20-3	0.415	20	369.6	27.8	A Type 245
40	0.415-25-3	0.415	25	462	34.8	B Type 210
41	0.415-30-3	0.415	30	554.5	41.7	B Type 240
42	0.415-40-3	0.415	40	739.3	55.6	C Type 210
43	0.415-50-3	0.415	50	924.1	69.6	C Type 230
44	0.415-60-3	0.415	60	1108.9	83.5	C Type 270
45	0.45-3-3	0.45	3	47.2	3.9	A ₁ Type 105
46	0.45-5-3	0.45	5	78.6	6.4	A ₂ Type 110
47	0.45-6-3	0.45	6	94.3	7.7	A ₂ Type 130
48	0.45-7.5-3	0.45	7.5	117.9	9.6	A ₂ Type 130
49	0.45-8-3	0.45	8	125.8	10.3	A ₂ Type 130
50	0.45-10-3	0.45	10	157.2	12.8	A Type 185
51	0.45-12-3	0.45	12	188.6	15.4	A Type 185
52	0.45-14-3	0.45	14	220.1	18	A Type 185



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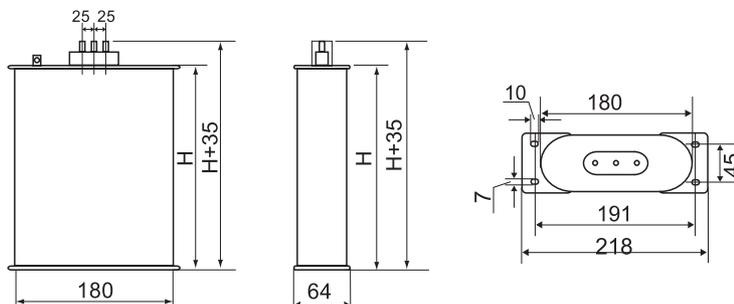


Main Specification & Overall Dimension

NO.	Type BSMJ BZMJ BCMJ BGMJ	Rated Volt. age (kV)	Rated Capacity (kvar)	Tatel capacitance (μ F)	Rated current (A)	Type & Heiht H(mm)
53	0.45-15-3	0.45	15	235.8	19.2	A Type 185
54	0.45-16-3	0.45	16	251.5	20.5	A Type 185
55	0.45-18-3	0.45	18	282.9	23.1	A Type 220
56	0.45-20-3	0.45	20	314.4	25.7	A Type 245
57	0.45-25-3	0.45	25	393	32.1	B Type 210
58	0.45-30-3	0.45	30	471.6	38.5	B Type 245
59	0.45-40-3	0.45	40	628.6	51.3	C Type 210
60	0.45-50-3	0.45	50	785.9	64.2	C Type 230
61	0.45-60-3	0.45	60	943.1	77	C Type 270
62	0.525-10-3	0.525	10	115.5	11	A Type 185
63	0.525-12-3	0.525	12	138.6	13.2	A Type 185
64	0.525-14-3	0.525	14	161.7	15.4	A Type 185
65	0.525-15-3	0.525	15	173.2	16.5	A Type 185
66	0.525-16-3	0.525	16	184.8	17.6	A Type 185
67	0.525-18-3	0.525	18	207.9	19.8	A Type 220
68	0.525-20-3	0.525	20	231	22	A Type 245
69	0.525-25-3	0.525	25	288.7	27.5	B Type 210
70	0.525-30-3	0.525	30	346.5	33	B Type 240
71	0.525-40-3	0.525	40	461.9	44	C Type 210
72	0.525-50-3	0.525	50	577.4	55	C Type 230
73	0.525-60-3	0.525	60	692.9	66	C Type 270
74	0.69-10-3	0.69	10	66.9	8.4	A Type 185
75	0.69-12-3	0.69	12	80.2	10	A Type 185
76	0.69-14-3	0.69	14	93.6	11.7	A Type 185
77	0.69-15-3	0.69	15	100.3	12.6	A Type 185
78	0.69-16-3	0.69	16	107	13.4	A Type 185
79	0.69-18-3	0.69	18	120.3	15	A Type 220
80	0.69-20-3	0.69	20	133.7	16.7	A Type 245
81	0.69-25-3	0.69	25	167.1	20.9	B Type 210
82	0.69-30-3	0.69	30	200.6	25.1	B Type 240
83	0.69-40-3	0.69	40	267.4	33.5	C Type 210
84	0.69-50-3	0.69	50	334.3	41.8	C Type 230
85	0.69-60-3	0.69	60	401.1	50.2	C Type 270
86	1.2-12-3	1.2	12	26.5	5.8	A Type 220
87	1.2-15-3	1.2	15	33.2	7.2	A Type 245

Note: the above overall size is for your reference only, we accept special orders of other specifications, and the sizes are subject to change in improved design.

The installation and size of shape



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