Our goal is the sea of stars!

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Capacitor product manual



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ZHEJIANG ZHEGUI ELECTRIC CO., LTD.

Giantele®

BSMJ SERIES

Self-healing low voltage
shunt capacitor



Self-healing low-voltage shunt capacitor is suitable for 50Hz or 60Hz frequency power system, using advanced polypropylene metallized film as the medium material, excellent self-healing performance, built-in self-discharge resistance and safety device, can disconnect the power supply in time to ensure safety, mainly used to improve power factor, reduce reactive power loss, improve voltage quality.

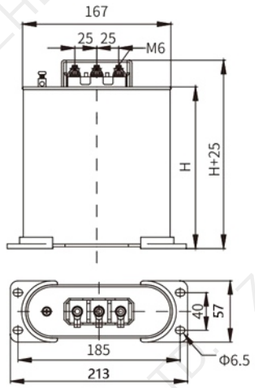
Main technical indicators

- Operating conditions: Ambient temperature -25℃~+50℃, humidity ≤ 85%, below 2,000 meters above sea level.
- Rated voltage: 250VAC, 400VAC, 450VAC, 480VAC, 525VAC, 690VAC, 750VAC, 1050VAC.
- Rated capacity: 1-50kvar
- Capacity tolerance: -5~+10%
- Loss Angle tangent value: tg δ ≤0.1% at 20℃ at rated power frequency voltage.
- AC withstand voltage: 2.15 times rated voltage 10 seconds between poles, 3kv 10 seconds between poles.
- Maximum allowable overvoltage: 1.1 times rated voltage.
- Maximum allowable overcurrent: 1.30 times rated current.
- Self-discharge: Add √2Un DC voltage to the capacitor. After 3 minutes of disconnection, the remaining voltage will be reduced by 75V or less.
- Standard: GB12747 IEC60831

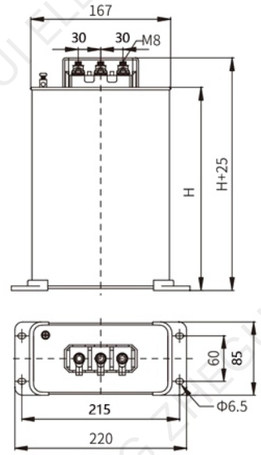
Model specification

B	W	MJ	L	0.4	15	3
Serial code B: Shunt capacitor M: energy storage capacitor C: Series capacitor	Impregnation code S represents micro crystalline wax Z represents rapeseed oil G represents silicone oil	Medium code (Metallized polypropylene film)	With a reactance coil No reactance coil is not marked	Rate voltage (0.4KV)	Rate current (15kvar)	Phase 3: 3 Phase 1: 1 Phase

Product dimensions



A



B

The main specifications

NO.	Specifications	Rated voltage KV	Rated capacity Kvar	Rated frequency Hz	Rated capacity HF	Rated current A	Shell height	Drawing no.
1	BSMJ0.4-5-3	0.4	5	50	99.5	7.2	115	A
2	BSMJ0.4-10-3	0.4	10	50	199	14.4	125	A
3	BSMJ0.4-15-3	0.4	15	50	298.5	21.6	180	A
4	BSMJ0.4-20-3	0.4	20	50	398	28.8	210	A
5	BSMJ0.4-25-3	0.4	25	50	497.5	36	240	A
6	BSMJ0.4-30-3	0.4	30	50	597	43.2	210	B
7	BSMJ0.4-40-3	0.4	40	50	796	57.6	250	B
8	BSMJ0.4-50-3	0.4	50	50	995	72	300	B
9	BSMJ0.45-5-3	0.45	5	50	78.65	6.4	115	A
10	BSMJ0.45-10-3	0.45	10	50	157.3	12.8	125	A
11	BSMJ0.45-15-3	0.45	15	50	235.95	19.2	180	A
12	BSMJ0.45-20-3	0.45	20	50	314.6	25.6	210	A
13	BSMJ0.45-25-3	0.45	25	50	393.25	32	240	A
14	BSMJ0.45-30-3	0.45	30	50	471.9	38.4	210	B
15	BSMJ0.45-40-3	0.45	40	50	629.2	51.3	250	B
16	BSMJ0.45-50-3	0.45	50	50	786.5	64	300	B
17	BSMJ0.48-5-3	0.48	5	50	69.1	6	125	A
18	BSMJ0.48-10-3	0.48	10	50	138.2	12	125	A
19	BSMJ0.48-15-3	0.48	15	50	207.3	18	210	A
20	BSMJ0.48-20-3	0.48	20	50	276.4	24	210	A

NO.	Specifications	Rated voltage KV	Rated capacity Kvar	Rated frequency Hz	Rated capacity HF	Rated current A	Shell height	Drawing no.
21	BSMJ0.48-25-3	0.48	25	50	345.5	30	210	B
22	BSMJ0.48-30-3	0.48	30	50	414.6	36	250	B
23	BSMJ0.48-40-3	0.48	40	50	552.8	48	300	B
24	BSMJ0.48-50-3	0.48	50	50	691	60	300	B
25	BSMJ0.525-5-3	0.525	5	50	57.7	5.5	115	A
26	BSMJ0.525-10-3	0.525	10	50	115.5	11	125	A
27	BSMJ0.525-15-3	0.525	15	50	173.3	16.5	180	A
28	BSMJ0.525-20-3	0.525	20	50	231	22	210	A
29	BSMJ0.525-25-3	0.525	25	50	288.9	27.5	210	B
30	BSMJ0.525-30-3	0.525	30	50	346.6	33	210	B
31	BSMJ0.525-40-3	0.525	40	50	462.2	44	250	B
32	BSMJ0.525-50-3	0.525	50	50	577.7	55	300	B
33	BSMJ0.69-20-3	0.69	20	50	134	16.7	240	A
34	BSMJ0.69-30-3	0.69	30	50	200.7	25.1	250	B
35	BSMJ0.25-5-3YN	0.25	5	50	254.5	6.7	115	A
36	BSMJ025-10-3YN	0.25	10	50	509	13.3	180	A
37	BSMJ025-15-3YN	0.25	15	50	763.5	20	240	A
38	BSMJ0.25-20-3YN	0.25	20	50	1018	26.7	210	B
39	BSMJ0.25-25-3YN	0.25	25	50	1275	33.3	250	B
40	BSMJ0.25-30-3YN	0.25	30	50	1527	40	300	B

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LJ7C SERIES

Cylindrical capacitors



LJ7C series cylindrical capacitors are suitable for increasing power factor, reducing reactive power loss and improving voltage quality in power frequency AC power system with nominal voltage of 1000V and below.

Main technical indicators

- High quality oxidation treated aluminum material housing, circular design, convenient installation, small duty cycle.
- The unique design ensures that the product can adapt to higher ambient temperatures and places with large fluctuations in system voltage.
- Built-in discharge resistor and safety device. When the internal pressure of the capacitor increases or a fault occurs, the safety device can automatically disconnect it from the power supply to avoid accidents! Therefore, it is expanded.

Types of meaning

LJ7C □-□-□

- Phase number
- Rated capacity (Kvar)
- Rated voltage (Kv)
- Cylindrical capacitor

Main technical indicators

- Loss angle tangent value: lower than 0.0012 at rated power frequency voltage;
- Capacitance deviation: The difference between the measured value and the rated value of the capacitor shall not exceed 0~+10%, and the ratio of the maximum to minimum capacitance measured between any two line terminals in a three-phase capacitor shall not be greater than 1.08;
- Withstand voltage: pole to pole: power frequency 2.15Un, 2S;
- Pole to shell: rated voltage 600V and below, applied voltage 3.6Kv, 5S; Rated voltage: 600V or above, applied voltage: 7.2Kv, 5S;
- Maximum allowable overvoltage: 1.1Un, not exceeding 8h every 24h;
- Maximum allowable overcurrent: 1.3In;
- Self-discharge characteristics: the capacitor is equipped with discharge devices, which can reduce the residual voltage of the capacitor from √2Un to 75V or below within 3min after disconnecting the power supply;
- Executive standards: IEC60831, GB/T12747

Install and run

- The capacitor is installed indoors and used at an altitude below 2000M;
- The ambient air temperature during use is - 25~+50 ℃, and the humidity is less than 85%; Note: The product can be customized for use in low temperature environments of - 40~+50 ℃.
- The installation plant should not be exposed to direct sunlight or be soaked in rain, and avoid places with excessive dust and severe vibration. The distance between them should be greater than 30mm; When the ambient temperature is high in summer, effective measures should be taken to ensure good ventilation and heat dissipation;
- Before installation, it is necessary to fully consider the factors such as high voltage rise caused by capacitor operation to prevent long-term operation of the capacitor under overvoltage;
- Before installing capacitors, attention must be paid to detecting voltage waveforms and network characteristics. If there are harmonic sources (such as installing large rectifiers, frequency converters, intermediate frequency furnaces, etc.) that may affect them, appropriate measures should be taken to limit them based on the severity of the harmonics;
- When a capacitor is connected in parallel with an induction motor, it is recommended to select a distribution container based on the capacitor current being less than 90% of the motor no-load current;
- Flexible copper wires should be used as far as possible for the wiring at the capacitor line terminals and ground terminals, and good contact should be ensured. It is recommended that users regularly inspect the capacitor wiring terminals to prevent damage outside the capacitor caused by poor contact;
- The time interval between capacitor switching off and re switching on shall be more than 3min (self-discharge time), otherwise high overvoltage may occur and the capacitor may be damaged;

Main product model specifications and data sheet

Specifications	Outer hulk outer diameter M(mm)	Shell height H(mm)
LJ7C0.45-15-3	76	240
LJ7C0.45-20-3	86	240
LJ7C0.45-25-3	106	240
LJ7C0.45-30-3	106	280
LJ7C0.48-15-3	76	240
LJ7C0.48-20-3	86	240
LJ7C0.48-25-3	106	240
LJ7C0.48-30-3	106	280
LJ7C0.525-15-3	76	240
LJ7C0.525-20-3	86	240
LJ7C0.525-25-3	106	240
LJ7C0.525-30-3	106	280
LJ7C0.28-10-1	96	280
LJ7C0.3-10-1	96	280
LJ7C0.28-15-1	96	280
LJ7C0.3-15-1	96	280
LJ7C0.28-20-1	96	280
LJ7C0.3-20-1	96	280

