



Self-healing Type Low Voltage Shunt Capacitor

General description

Self-healing type low voltage shunt capacitor, made of the advanced metallized film, is produced strictly in accordance with the National standard and IEC standard by the introduced advanced foreign techniques and equipment. The device is mainly suitable for low voltage electric network to improve power factor, reduce reactive loss, and better the voltage quality.

Main characteristics

1. Small volume and light weight It is only 1/4 and 1/5 of the volume of the outdated product respectively
2. Low loss with the actual loss less than 0.1%, the capacitor, itself, has low consumption of energy, little radiation effect.
3. Excellent self-healing so as to continue the normal operation, therefore the reliability is improved greatly.
4. Safety Equipped with self-discharging resistant and safety devices inside, it is safe and reliable.
5. Without oil leakage in order to avoid oil leakage during operation so as to protect the environment, it employs the microcrystalline wax as the impregnant, which remains solid at ordinary temperature and has a drip melting point higher than 70°C.

Main technical characteristics

1. service conditions: ambient temperature -25°C ~ 45°C, humidity < 85%, and altitude lower than 200m.
2. Rated voltage: 250VAC, 400VAC, 525VAC, 690VAC, 750VAC, 1050VAC.
3. Rated output: 1 ~ 30kvar.
4. Capacitance Tolerance: 0 ~ +15%.
5. Tangent of the loss angle: with the power frequency rated voltage, $\text{tg}\delta \leq 0.1\%$ at 20°C.
6. Withstand voltage: capable of withstanding 1.75 times of rated voltage between poles for 10s, $R > 1000M\Omega$.
7. Max allowable voltage: 1.10 times of the rated voltage.
8. Max allowable current: 1.30 times of the rated current.
9. Self-discharging characteristics: Apply $\sqrt{2} U_n$ DC voltage to the device and switch off the power supply for 3min, and then the residual voltage is 50V or less.
10. Standards: In conformity with GB12747-1991, IEC831-1988.

Main specifications & overall dimension

Model	Rated voltage KV	Rated output Kvar	Total capacitance μF	Height of type A H(mm)	Height of type B H(mm)
BSMJ0.4-5-3	0.4/50Hz	5	99	130	
BSMJ0.4-6-3	0.4/50Hz	6	199	130	
BSMJ0.4-8-3	0.4/50Hz	8	159	130	
BSMJ0.4-10-3	0.4/50Hz	10	199	185	
BSMJ0.4-12-3	0.4/50Hz	12	239	185	
BSMJ0.4-14-3	0.4/50Hz	14	278	220	
BSMJ0.4-15-3	0.4/50Hz	15	298	220	
BSMJ0.4-16-3	0.4/50Hz	16	318	220	
BSMJ0.4-20-3	0.4/50Hz	20	398		220
BSMJ0.4-25-3	0.4/50Hz	25	497		270
BSMJ0.4-30-3	0.4/50Hz	30	597		270

