

## TBBX Low Voltage Reactive Power Local Compensator

### General description

Reactive local compensator is a kind of energy-saving product developed through the self-healing type of shunt capacitor by the company. The device is mounted beside the inductive load and shunted with it in field to operate synchronously so as to do reactive compensation directly. As a result, the power factor of the electric network is promoted, the line loss reduced, the supply voltage of the end load improved, and the supply potential of the distribution system developed fundamentally. The device is widely applied to the low voltage distribution system of industrial and mining enterprises, emporiums and buildings, and electric network of countries to do local reactive comensation for inductive load.

### Main characteristics

1. Flexible, direct and high efficient compensation layout.
2. Making high profit by small amount of investment. In general, the electricity fees saved by using the device in half a year are equal to the investment amount, so the economic benefit is obvious.
3. Small volume and light weight.
4. Convenient installation and safe and reliable operation.

### Main technical characteristics

1. Service conditions: Altitude  $< 2000\text{m}$ ; Ambient temperature  $-25^{\circ}\text{C} \sim 45^{\circ}\text{C}$ , humidity  $< 90\%$  at  $35^{\circ}\text{C}$ .
2. Rated voltage:  $400\text{V}$ ,  $50\text{Hz}$ .
3. Rated output:  $1 \sim 100\text{Kvar}$ .
4. Capacitance Tolerance:  $0 \sim +15\%$ .
5. Tangent of the loss angle:  $< 0.2\%$ .
6. Max allowable over voltage:  $110\%$  rated voltage.
7. Max allowable over current:  $130\%$  rated current.
8. Insulating property: More than  $1000\text{M}\Omega$  between the pole and the enclosure.
9. Self-discharging characteristics: After switching off for 3 minutes, the residual voltage decreases to less than  $50\text{V}$ .

### Overall dimension & installation wiring diagram

Spec	A	B	H	K
1-10Kvar	220	100	300	20
11-16Kvar	220	100	400	20
17-22Kvar	230	140	400	20
23-40Kvar	300	230	400	20
45-60Kvar	300	250	550	20
65-100Kvar	500	250	550	30

