

Reactive Power Autocompensation Controller

General description

The reactive power auto-compensation controller is the auxiliary product for low voltage capacity screen. According to the different demands of users, the company developed successively the JKG2B, JKL1B, JKL5C, and so on three types of intelligent series of controllers; Number of the circuits controlled is 4, 6, 8, 10 and 12 available. All of these devices are controlled by the microcomputer. With the advanced techniques, they have complete range of functions, rather strong anti-interference capability, stable and reliable operation, accurate compensation, and good appearance, so they are the preferred products of capacitor panel manufacturers.



Service conditions

1. Altitude not higher than 2500m.
2. Ambient temperature $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$.
3. Relative humidity $\leq 50\%$, and $40^{\circ}\text{C} \leq 90\%$ at 20°C .
4. No corrosive gas, inductive dust, and inflammable and explosive mediums in the ambient environment.
5. The mounting position should be protected against violent vibration.

Main technical parameter

Items	JKL1B	JKL5C	JKL2B
Rated working voltage	$380 \pm 10\%$, 50Hz	$380 \pm 10\%$, 50Hz	$220 \pm 10\%$, 50Hz
Sampled input current	AC (Ii \leq 5A)	AC (Ii \leq 5A)	AC (Ii \leq 5A)
Output contact capacity	220V \times 5A, 380V \times 3A	220V \times 5A, 380V \times 3A	220V \times 5A, 380V \times 3A
Dielectric strength	AC 3000V	AC 3000V	AC 3000V
Working method	Continuous	Continuous	Continuous
Switchon threshold	$>1.1\text{IC}$, $<\text{Cos}\phi$ Preset	$>1.1\text{IC}$, $<\text{Cos}\phi$ Preset	$\text{Cos}\phi < 0.93$
Switchoff threshold	$>0.5\text{IC}$	$>0.5\text{IC}$	$\text{Cos}\phi < 0.98$
Switching time delay	10 - 100s Adjustable	10 - 100s Adjustable	10 - 100s Adjustable
Overvoltage protection	400 - 440V Adjustable	400 - 440V Adjustable	230 - 450V Adjustable
Phase sequence of sampling signal	Automatic identifying	Automatic identifying	Automatic identifying
Self-checking function	Yes	Yes	Yes
Number of circuits controlled	4, 6, 8, 10	4, 6, 8, 10, 12	4, 6, 8, 10
Overall function	10W	10W	15W
Overall weight	1.5Kg	1.35Kg	1.8Kg
Size of mounting hole	140 \times 102	113 \times 113	162 \times 162