

CJAC SERIES

**DESCRIPTION:**

JINPEI CJCA intelligent integrated low-voltage filtering capacitor (hereinafter referred to as product) is designed for situations where the power grids have certain harmonic content, is mainly applied to locations where the harmonic current is 40% below (such as frequency converter, and other equipment), it not only meets the requirements of reactive compensation and improving power factor, but also eliminates influence of high-order harmonic to the system, improves the electricity quality. its main characteristics as follows:

1. High quality type low-voltage capacitor, oil-free design, high safety;
2. Adoption of no-surge switching switch, with advanced technology, stable and reliable performances;
3. Adoption of special technology and process, effectively suppress high-order harmonic and surge,
has obvious efficiency in suppressing harmonic of order 3, 5, 7, 9 and above;
4. Modular structure, flexible combination, convenient capacity expansion, simple installation,
convenient for maintenance; Intelligent network,
5. 485 communication interface, can switch in backstage computer, to carry out integrated management of distribution;
6. Adoption of decentralized control mode, 200,000 times of fault-free switching, with high reliability;
7. Humanized human-machine interface, simple operation, convenient maintenance, it is convenient for fault shooting on site;
8. It is equipped with SH explosion-proof device and temperature control device inside,
which improves the running reliability in severe harmonic locations;
9. Outstanding energy-saving efficiency, it effectively increases the power factor,
reduces electric power consumption and improves the electric energy quality.



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**TECHNICAL PARAMETER****Ambient conditions**

Ambient temperature: $-25\sim 55^{\circ}\text{C}$;

Relative temperature: 40°C , $20\sim 90\%$;

Altitude: $\leq 2000\text{m}$ (give clear indications when placing an order if there is any special situation).

Power supply conditions

Rated voltage: $-220\text{V}/\sim 380\text{V}$;

Voltage deviation: $\pm 20\%$;

Voltage waveform: sine wave, total distortion rate not exceed 7% ;

Rated frequency: $50\text{Hz}\pm 5\%$;

Power consumption: $< 2\text{W}$.

Electrical safety

Electrical clearance, creepage distance, insulation strength, safety protection, short-circuit strength, sampling and control circuit protection should all be in conformity with the corresponding clauses of standard DL/T842-2003 Ordering specification for low-voltage shunt capacitor installation.

Measurement error

Voltage: $\leq 0.5\%$ (within $80\sim 120\%$ of rated voltage);

Current: $\leq 1\%$ (within $5\sim 20\%$ of rated current),

Power factor: $\pm 1.5\%$;

Temperature: $\pm 1^{\circ}\text{C}$.

Protection error

Voltage: $\leq 0.5\%$;

Current: $\leq 1\%$;

Temperature: $\pm 1^{\circ}\text{C}$.

Time: $\pm 0.01\text{s}$.

Reactive compensation parameters

Switching interval of capacitor: $> 10\text{s}$ ($1\text{s}\sim 10\text{s}$ customized);

Reactive capacity: common compensation $\leq 40\text{kvar}$, separate compensation $\leq 20\text{kvar}$;

Online quantity: $\leq 20\text{pcs}$.

Reliability

Control accuracy: 100% ;

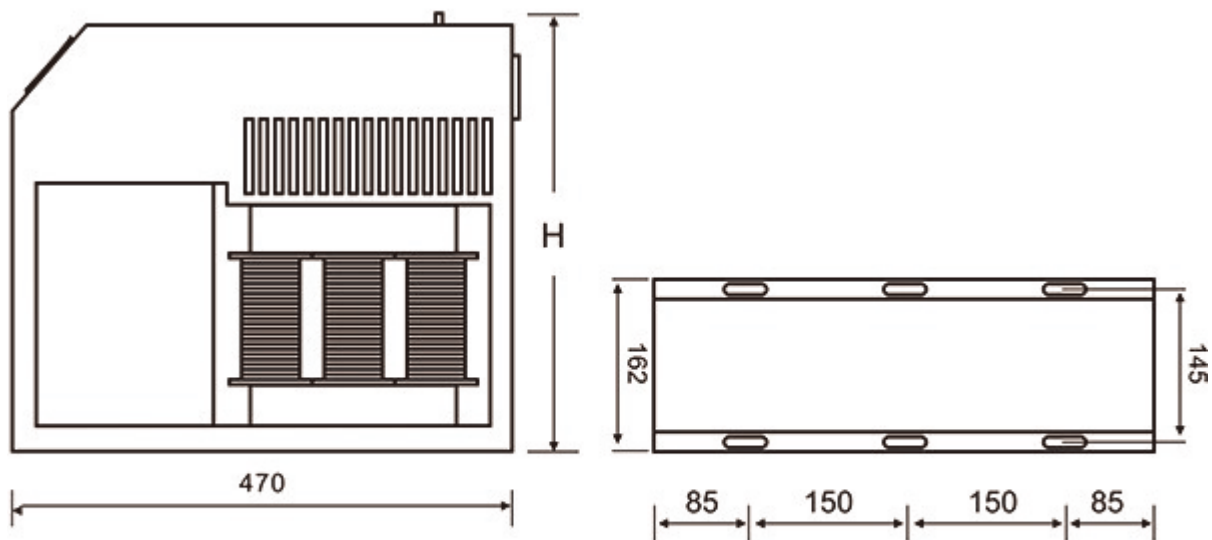
Permissible switching times: $200,000$ times;

Attenuation rate of running time of capacitor capacity: $\leq 1\%/\text{year}$;

Attenuation rate of switching of capacitor capacity: $\leq 0.1\%/\text{ten thousand times}$;

Annual fault rate: $\leq 1\%$

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Model specification		Overall dimension(D×W×H)
Total compen sation	10kVar	470×162×410
	15kVar	
	20kVar	
	25kVar	
	30kVar	
	35kVar	
Separate compen sation	40kVar	470×162×450
	5kVar	470×162×410
	15kVar	
	20kVar	
30kVar	470×162×450	