

## CJAE SERIES



### Application

#### Intelligent measuring and control system

The sampling system of current and voltage adopts 32-bit built-in MCU made by Corex-M4, able to collect the signals quickly, it can realize the high accuracy of measuring three-phase current, voltages, active power, reactive power, transparent power and etc system parameters, calculating and analysis of harmonic waves

#### Human and machine exchange system

Displaying monitor adopts LCD panel, Chinese menu, display the inner temperature, current, voltage and harmonic parameters at real time, push keys to seek the parameters and running status, also able to set over-voltage, under-voltage, under-current, over-temperature, over/under compensation data, can be saved in case of power failure.

#### Intelligent connecting with system

Rs485 comm port, built-in MODBUS-RTU protocol, able to realize remotely monitoring and controlling. When several products are connected with system in parallel, they will automatically produce one master machine, the others become the slave machines, forming a reactive power compensation system; if one of machine is out of service it does not influence on others operating, if the master machine exit the working, the system will auto produce a new master machine, highly intelligent operation.

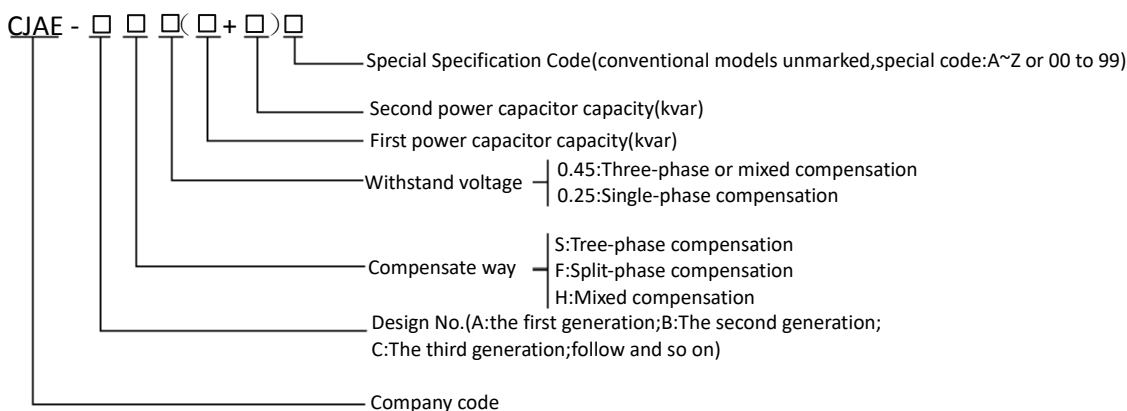
#### Intelligent switching system

Really switching through zero current, auxiliary transistor circuit is not needed, this system adopts the independent CPU to control the switching operation at passing zero, switching at zero, no surging current, no arcing, fast response, improve the reliability and service life of the equipment.

#### Power capacitors

Cooperated with high performance power capacitors, good radiation, small size, long service life, consequently it can ensure the complete-set equipment with high safety and reliability

### PART NUMBER EXAMPLE



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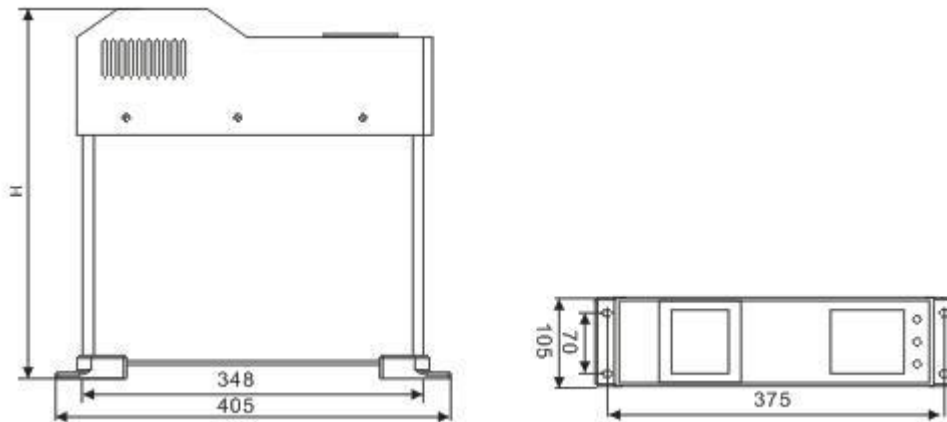
## Main Technical Data

Power Parameters	Rated voltage	AC 400V(deviation $\leq\pm 10\%$ ,distortion sine wave $<5\%$ )		
	Rated current	AC 0~5A(current harmonics $<10\%$ ,Current input impedance $\leq 0.02\Omega$ )		
	Frequency	50Hz	Power consumption	$<0.5W$
Measurement accuracy	Voltage	$\leq 0.5\%$	Current	$\leq 0.5\%$
	Power	$\leq 0.5\%$	Power Factor	$\pm 0.01\%$
	Time	$\leq 100ms$	Temperature	$\pm 1^{\circ}C$
Network	Networking Number	$\leq 128$ loops	Networking initialization time	$\leq 10s$
Environment	Temperature	$-30^{\circ}C \sim +60^{\circ}C$		
	Relative humidity	90%RH(when $20^{\circ}C$ non-condensing)		
Switching interval		Single $\geq 20s$ (increased when more than one network use)		
Capacitors single maximum capacity		Three-phase compensation(30+30kVar; Single-phase compensation 30kVar		
Capacitors decay rate		$\leq 0.5\%/Year$		
Capacitor failure rate		$\leq 5\%/Year$ (Running 60000h)		
Allows switching frequency		$\geq 1$ million times		
Communication Interface		RS 485,CAN		

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### External And Installation Size



Compensation mode	Model Specification	Dimensions			
		L	L1	W	H
Three-phase Compensation (Single)	CJAE-CS0.45(5)	405	375	105	315
	CJAE-CS0.45(10)	405	375	105	315
	CJAE-CS0.45(15)	405	375	105	315
	CJAE-CS0.45(20)	405	375	105	315
	CJAE-CS0.45(25)	405	375	105	315
	CJAE-CS0.45(30)	405	375	105	315
Three-phase Compensation (Dual)	CJAE-CS0.45(5+5)	405	375	105	315
	CJAE-CS0.45(10+10)	405	375	105	315
	CJAE-CS0.45(10+20)	405	375	105	315
	CJAE-CS0.45(20+20)	405	375	105	315
	CJAE-CS0.45(20+30)	405	375	105	375
	CJAE-CS0.45(30+30)	405	375	105	375
	CJAE-CS0.45(30+40)	405	375	105	500
Single-phase compensation	CJAE-DF0.25(10)	405	375	105	315
	CJAE-DF0.25(15)	405	375	105	315
	CJAE-DF0.25(20)	405	375	105	315
	CJAE-DF0.25(30)	405	375	105	315
Mixed compensation	CJAE-CH/450/5+250/5	405	375	105	315
	CJAE-CH/450/10+250/5	405	375	105	315
	CJAE-CH/450/10+250/10	405	375	105	315
	CJAE-CH/450/15+250/15	405	375	105	375
	CJAE-CH/450/20+250/20	405	375	105	375