

HJKL Series Reactive Power Compensation Controller
 Standard: IEC 61000-6-2

Function

The reactive power compensation controller is a specified controller that can match all kinds of capacitors in low-voltage system. It adopts MCU controlling and uses numerical techniques to compute the phase difference between the fundamentals of current and voltage, enabling precise power factor measurement with quick response.

Key Benefits

- Loop setting is available: loop number can be set according to actual request;
- Threshold of input and cut-off can exceed power factor 1.00, which makes a wider application range;
- Automatic phase detection and flexible wiring methods;
- Microprocessor based intelligent auto switching control: overcompensation, undercompensation, overvoltage, undervoltage, undercurrent;
- Strong anti-interference ability and automatic reset function (WDT);
- Intelligent anti zero-input function;
- DC output type products can be selected to realize non-impact "flexible compensation".

Application Conditions

- The rated operating voltage is AC 380V/220V and the fluctuation range is no more than 15%;
- Ambient temperature: -25°C to +40°C;
- Relative Humidity: not exceeding 90% at 20°C.
- The surrounding environment is free from corrosive gases, conductive dust and flammable and explosive media;
- No severe vibration at the installation site;
- The altitude does not exceed 2000m (special requirements can be negotiated).

Coding System

HJKL5C Series

Product Name	Loop Number	Output voltage	Encloure
HJKL5C	Q4	DC	S
	↓	↓	↓
	Q4: 4 loops Q6: 6 loops Q8: 8 loops Q10: 10 loops Q12: 12 loops	Default: none DC: DC circuit	S: Molded case

HJKL2C Series

Product Name	Loop Number	Output voltage	Encloure
HJKL2C	M4	DC	S
	↓	↓	↓
	M4: 4 loops M6: 6 loops M8: 8 loops M10: 10 loops M12: 12 loops	Default: none DC: DC circuit	S: Molded case

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Technical Parameters

Category	Parameter value	Default Value
Sampling voltage	380V(HJKL5C) / 220V(HJKL2C)±15%	
Sampling current	n/5A (Is≤5A)	
Frequency	50~60(Hz)	
Sensitivity	50mA	
Input threshold	lag 0.80~lead-0.82 adjustable step 0.01	0.95
Cut-off threshold	lead-0.80 ~lag0.82 adjustable step 0.01	-0.99
Loop setting	1~12 adjustable step 1	
Time setting	1s~120s adjustable step 1s	30s
Overvoltage setting	400~450V (HJKL5C) adjustable step 5V	430V
	235~260V (HJKL2C) adjustable step 5V	245V
Undervoltage protection	300V(HJKL5C) / 170V(HJKL2C)	
Undercurrent setting	0mA~500mA adjustable step 50mA	200mA (0 is for close)
COS display	Lead & Lag (0.00~0.99) resolution 0.01	
Working methods	Continuous working, circular switching	
Output loops	4, 6, 8, 10, 12 loops	
Capacity of output	Each group 5A, 220V resistive / 3A, 380V resistive	
IP grade	IP30 for cover	
Weight	< 0.85kg	

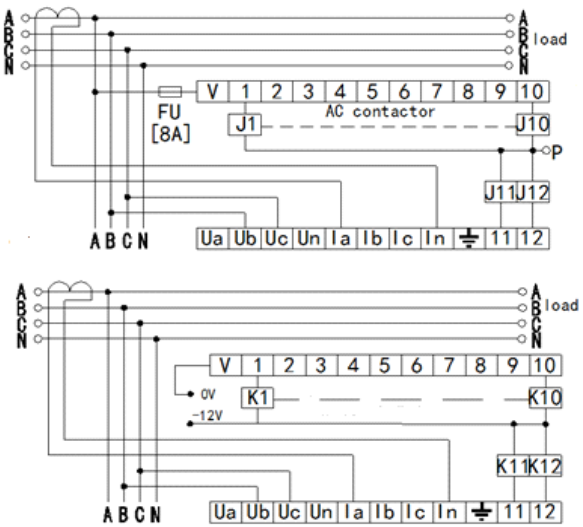


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Wiring Diagram

HJKL5C series

HJKL5C
Ub, Uc: input of voltage signal
Ia, In: input of current signal
V: common terminal of control output
e.g. Contactor 380V: point P is connected to phase B or phase C;
e.g. Contactor 220V: point P is connected to phase N

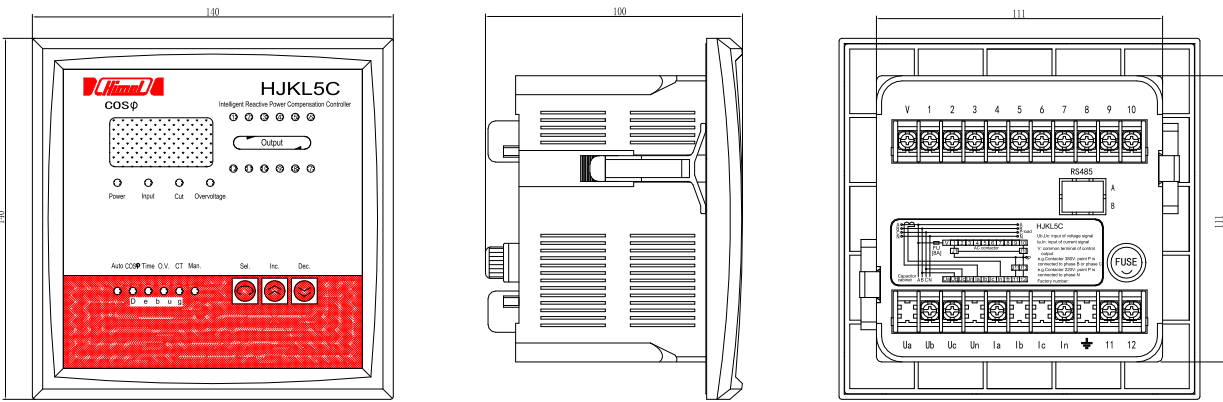


HJKL5C-DC
Ub, Uc: input of voltage signal
Ia, In: input of current signal
V, K(1-12): output of DC control signal
V: 0V
K(1-12): output -12V

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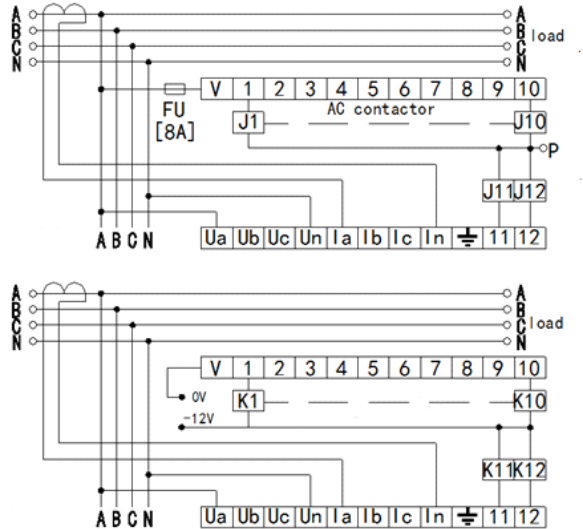
Dimension

HJKL5C



HJKL2C series

HJKL2C
Ub, Uc: input of voltage signal
Ia, In: input of current signal
V: common terminal of control output
e.g. Contactor 380V: point P is connected to phase B or phase C;
e.g. Contactor 220V: point P is connected to phase N



HJKL2C-DC
Ub, Uc: input of voltage signal
Ia, In: input of current signal
V, K(1-12): output of DC control signal
V: 0V
K(1-12): output -12V

HJKL5C

