POWER FACTOR CORRECTION

HJKL Power Factor Correction Controllers

Standard: IEC60831

Range Presentation

HJKL is Himel range of reactive power compensation controllers, matching all kinds of capacitors in low-voltage system. It adopts MCU controlling to compute the phase difference between the fundamentals of current and voltage, enabling precise power factor measurement with quick response.

Features

- New control algorithm designed to reduce the number of switching operations and quickly attain the targeted power factor.
- Quick and simple mounting and wiring.
- Direct viewing of installation electrical information and capacitor condition.
- Direct reading and easy setup
- Alarm indication.

Online Content

HJKL

Selection Code

Range name	Sampling voltage	Output loops	Circuit type	Enclosure material
HJKL	2CM	4	DC	S
HJKL	**2CM:** 220V **5CQ:** 380V	**4:** 4 loops **6:** 6 loops **8:** 8 loops **10:** 10 loops **12:** 12 loops	**Default:** AC circuit **DC:** DC 12V	**S:** Molded case

Technical Parameters		
Power Factor Correction Controllers	**HJKL**	
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	

POWER FACTOR CORRECTION

HJKF Power Factor Correction Controllers

Standard: IEC60051

Range Presentation

HJKF is Hime range of the reactive power compensation controller. It is a special controller used for three-phase low-voltage power grid. Automatic generation of multiple alarm events, which can remind users through nodes or sounds. Temperature adjustment function is involved in all models, which can save 1 pcs temperature-control regulator in capacitor cabinet. Harmonics detecting and protection functions are included as well. All parameters are protected by password to avoid any unexpected modifications.

Features

- Elegant LCD display with rich contents
- Wiring identification by manual assistance is included for easy wiring
- Current dotted terminal identification is included for easy wiring switch
- Output code can be arbitrary coding, and it can be compatible with various capacity configurations
- Four running output modes: circulate switching, coding switching, cut-on first and then cut-off, optimization switching
- Temperature control node included is easy to adjust ambient temperature of the reactive power compensation cabinet
- Alarm node included is easy for users to temperature control, remote monitoring and fault protection
- Built-in buzzer alarm function, and alarm events can be optional which will be convenient for users on-site to find abnormal cases
- RS485 port is for communication type model which can be arbitrary wiring without differentiating A and B. It's easy for users to do wiring with master computers.

Selection Code

Range Name	Sampling Voltage	Output Loops	Function
HJKF5C	V	12	Z
HJKF5C	**V:** 400V	**12:** 12 loops	**Default:** wiithout communication **Z:** Communication type

Technical Parameters	
Rated operating voltage	AC400V (±15%)
Frequency	50 / 60Hz
Rated current	≤5A
Sensitivity	≤50mA
Compensation method	Common three-phase compensation
Power loss	<5VA
Response time	1s~120s
Output capacity	220V/5A
Output loop number	12 loops
Hole size	113*113(mm)
Weight	<0.6kg

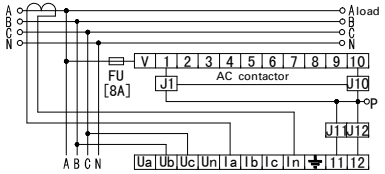
Wiring Diagram

Standard: IEC60831

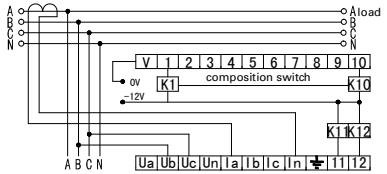
Wiring Diagram

HJKL5C

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

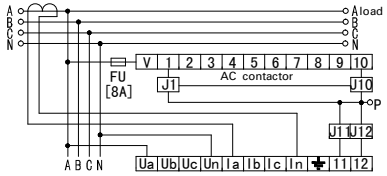


HJKL5C-DC
Ub, Uc: input of voltage signal
Ia, In: input of current signal
V, K(1-12): output of DC control signal
V: 0V
K(1-12): output -12V

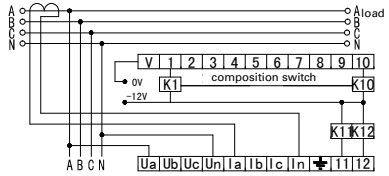


HJKL2C

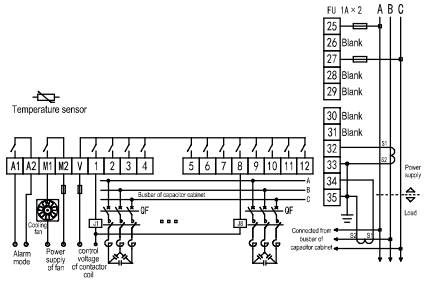
HJKL2C
Ub, Uc: input of voltage signal
Ia, In: input of current signal
V: common terminal of control output
e.g. Contactor 380V: point P is connected to phase B or phase C;
e.g. Contactor 220V: point P is connected to phase N



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



HJKF5C

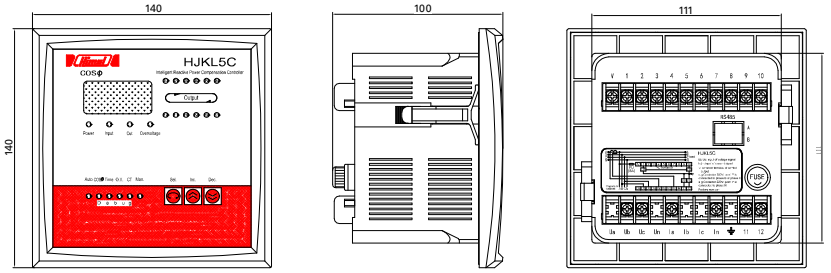


Dimensions

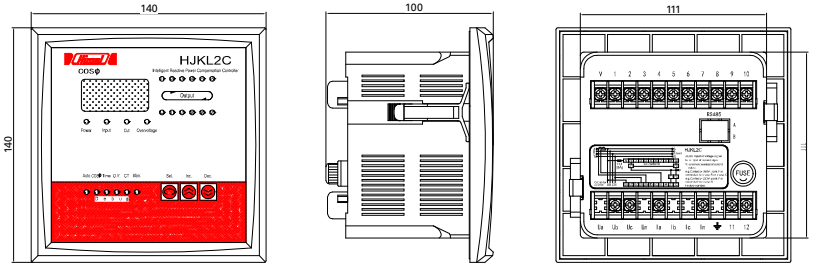
Standard: IEC60051

Dimensions

HJKL5C



HJKL2C



HJKF5C