Intelligent Reactive Compensation





JKW series Intelligent Reactive Compensation Controller



General Description

JKW series intelligent low voltage reactive auto compensation controller (abbr. Controller) is the special device for compensating reactive power for low voltage distribution system. Its sampling physical quantity is reactive power, with various specifications of 1~16 step dynamic output(JKWD15, JKWD2C) and static output(JKW15、JKW2C、 JKW1BF、JKW1BJ、JKW3B、JKW2B) etc, as well as with characteristics of novel design, multifunction, fine control performance and high reliability etc. It is at the leading position among similar products in domestic market and supplies a brand new device for distribution automation. This series product showing type face "2500" when power on denotes the program version of product.

Functional characteristics	 Real time displays network state: including reactive power, power factor, secondary current, primary current and system voltage etc. Automatically recognize the polarity of sampling signal, to avoid non-polarity connection. With power down memory function by setting parameter. Data will not lose after power down. With over voltage and under voltage protection functions. With input and resect delay can be adjusted separately, with applicable capacity for electric network. Re-inputting locking time can be set to ensure the capacitor with enough discharge time before inputting. Output group quantity can cut off one group or start one group at will through the button. Whole digital of all kinds of parameters is adjustable, can be widely used in different electric network. With strong anti-interference capacity, can directly resist the interfering impulse with total amplitude value of 2000V from periphery.
Service condition	Power voltage: Rated value is AC 380V, fluctuation should not exceed ±10%. Ambient temperature: -25°C ~55°C. Relative humidity: Max 90% (at 20°C). Altitude: not exceed 2000m. Environmental condition: without explosive and flammable dangerous medium, without corrosive metal gas and the conductive dust that may damage the electric insulation.

Basic technical parameters

Rated current: AC 0~5A Current input impedance: ≤0.02 Ω Frequency: 50Hz/60Hz Rated voltage: AC 220V/380V Protection grade of shell: IP30 Power: Max 8W Sensitivity: 50mA

Ex-store setting	Code	Meanings	Setting value	Adjustable range
value for each	P-01	Input threshold for power factor	0.950	0.800~1.000
parameter	P-02	Resect threshold for power factor	1.000	0.900~900
parameter	P-03	Input delay	30	1~250s/0.1~60.0s
	P-04	Cut delay	30	1~250s/0.1~60.0s
	P-05	Over voltage protection	440/245	400~500/230~27
	P-06	Re-inputting locking time	30	0~240s
	P-07	Transformation ratio of transformer	500	5~10000
	C-01~C-12	Output of each controlled capacitor	5	0~200kvar

Operation method for manual function capacitor.

Model	Rated voltage	Tapping size	Output
JKW15	380V	113 x 113	1-12 step static output
JKW2C	220V	113 × 113	1-12 step static output
JKW1BF	380V	140 × 102	1-12 step static output
JKW1BJ	220V	140 × 102	1-12 step static output
JKW3B	380V	162 × 102	1-12 step static output
JKW2B	220V	162 × 102	1-12 step static output
JKWD15	380V	113 × 113	1-12 step dynamic output
JKWD2C	220V	113×113	1-12 step dynamic output

JKW series Intelligent Reactive Compensation Controller

Contact capacity: Dynamic state DC12V/50Ma(Staic state AC220V/7A) each branch

Click the set key 🔳 to perform fast transfer between automatic and manual operation. AUTO/MAN signal lights flash frequently under manual state. Operate ▲ can input one group. Operate ▼ can cut the group of input

JKWF series **Intelligent Reactive Compensation Controller**



General

JKWF series reactive power compensation controller (hereinafter referred to as controller), taking 8-position SCM as core, adopting the control scheme of phase splitting sampling, phase splitting compensation and common compensation plus phase splitting compensation, is used for controlling reactive compensation devices in unbalance three-phase load electric system with AC50Hz, 0.4KV. (JKW18 Is single-phase sampling, with same basic functions, to use referring to the instruction).

Functional characteristics

- 1. Real time displays three-phase network state: including system voltage, system current, active power, reactive power, apparent power, power factor and electric network frequency, control parameter etc.
- 2. Automatically recognize the polarity of sampling signal, to avoid non-polarity connection.
- 3. With power down memory function by setting parameter. Data will notlose after power down.
- 4. With over voltage and under voltage protection functions.
- 5. With double input threshold: Input just can be performed only the power factor and reactive power are lower than set value, to avoid input-resect vibration.
- 6. With input and resect delay can be adjusted separately, with applicable capacity for electric network.
- 7. With 5 kinds of input-resect program: sequential input-resect, code input-resect and optimized inputresect modes.
- 8. Re-inputting locking time can be set to ensure the capacitor with enough discharge time before inputting.
- 9. Output group quantity can cut off one group or start one group at will through the button.
- 10. Whole digit of all kinds of parameters is adjustable, can be widely used in different electric network.
- 11. With strong anti-interference capacity. can directly resist the interfering impulse with total amplitude value of 2000V from periphery.
- 12. Compensation modes: phase splitting compensation can be set, phase splitting compensation plus threephase compensation, three-phasecompensation.
- 13. Output modes: static, dynamic and compound etc.

Service condition

Power voltage: Rated value is AC 220V, fluctuation should not exceed ±10%. Ambient temperature: -25°C~55°C. Relative humidity: Max 90% (at 20°C) Altitude: Not exceed 2000m. Environmental condition: Without explosive and flammable dangerous medium, without corrosive metal gas and the conductive dust that may damage the electric insulation.

Basic technical parameters

Rated current: AC 0~5A Frequency: 50Hz/60Hz Protection grade of shell: IP40 Contact capacity: Dynamic state DC12V/50Ma(Static state AC220V/7A)each branch Sensitivity: 20mA

Ex-store setting	Code	Meanings	Setting value	Adjustable range
value for each parameter	P-01	Input threshold for power factor	0.950	0.800~1.000
	P-02	Resect threshold for power factor	1.000	0.900~900
	P-03	Input delay	10s	0.1~100s
	P-04	Cut off delay	10s	0.1~100s
	P-05	Over voltage threshold	245V	220V~300V
	P-05	Capacitor discharge delay	0	0~240s
	P-07	Sampling current transformer ratio	500	5~9000
-	P-8	Compensation scheme	3F07(2F06)	OF16-5F01(OF12~4F00)
	C-01~C-16	Output of each controlled capacitor	5	0~200kvar

JKWF series Intelligent Reactive Compensation Controller

PFC series Monitoring Intelligent Compensation Controller



Safety operation PFC type distribution monitoring controller should be installed and operated by the electrician with certain and installation experience. Please carefully read the instruction before using. According to the modes and steps stipulated in the instruction when debugging and musn't confuse the connection diagram and terminal label at back of the controller. 1. Altitude: not exceed 2500m. Service 2. Ambie nt tempe rature: -25°C~50°C.

3. Air humidity should not exceed 50% at 40°C and not exceed 90% at 20°C.

4. No corrosive gas, conductive dust and flammable and explosive medium around the ambient. 5. No fierce vibration at installation site. 1. Basic parameter **Technical** Power voltage: AC220V±10% Power frequency: 45-65Hz parameters Signal frequency: 45-65Hz Signal voltage: AC50-260V Signal current: AC0-5A Power consumption of machine: <10VA 2. Measure precision Voltage: ±0.5% Current: ±0.5% Active power: $\pm 1.0\%$ Power factor: $\pm 1.0\%$ Active coulom: $\pm 1.0\%$ Reactive power: $\pm 1.0\%$ Electric network frequency: ±0.01Hz Reactive coulom: $\pm 1.0\%$ System clock: ±4ppm, yearly error less than 2min

Main functions

- and capacitor capacity etc can be set.
- function and portable computer data can be performed.

Analysis system software for upper position computer

- 1. Running environment (operating system) windows 98/2000/xp
- 2. Communication functions
- 3. Analysis functions time interval through table curve or bar diagram form.
- 4. Simplo opcration mouse and detailed operation instruction is attached.

conditions

PFC series **Monitoring Intelligent Compensation Controller**

1. PFC distribution monitoring controller is mainly used for auto controlling to capacitance reactive compensation devices in low voltage distribution system, to make the power factor of electric network be optimal.

2. Full big screen display (contain back light, the back light is bright by operating any key. If within 1min there is n't any operation, the back light will extinguish automatically), with friendly human machine interface and visual and simple Chinese present operation. Actual time calculation displays three-phase power factor, three-phase active power, three-phase reactive power, three-phase voltage, three-phase current, zero sequence current, three-phase voltage distortion rate, three-phase current distortion rate, 3-13 times voltage and current harmonic wave contain rate, real time clock, active electrical degree and reactive electrical degree etc.

3. PFC type distribution monitoring controller can widely store 24 integral points data and the daily statistical data reaching min 200 days, and also can be extended to 800 days according to user's requirement. Data includes the three-phase voltage, three-phase current, three-phase power factor, three-phase active power, three-phase reactive power, three-phase voltage distortion rate, three-phase current distortion rate, active electrical degree and reactive electrical degree of everyday integral hours. Calculate everyday max and min three-phase voltage and the time of occurrence, daily max and min three-phase current and the time of occurrence, daily min three-phase power factor and the time of occurrence, daily max and min three-phase active power and the time of occurrence, daily max and min three-phase reactive power and the time of occurrence, daily max and min three-phase voltage distortion rate and the time of occurrence, daily max and min three-phase current distortion rate and the time of occurrence, daily three-phase voltage on the high and low side time, daily three-phase voltage percent of pass, daily three-phase voltage distortion rate standardexceeding time, daily three-phase current distortion rate standard-exceeding time, daily three-phase power factor less than 0.95 time, load unbalance rate standard-exceeding time, running total time of 1-6 step capacitor, input-resect times of 1-6 step capacitor, power failure moment, incoming power moment, power failure times incoming power times, daily max current value for 15 min and the time of occurrence.

4. Various control parameter functions of full digital pre-set, password, ID number (for communication),PT transformation ratio, CT transformation ratio, over voltage threshold, under voltage threshold, target power factor threshold, input-resect delay, distortion rate threshold, clock, compensation schemes, input-resect codes

5. Communication functions: with RS232 and Rs485 communication port of hardware conventions, adopting 101 or MODEBUS-RTU communication conventions, on site or long-distance communication can be executed. Can realize real time, summon various electric parameter by timing, modify control parameter and input-resect capacitance through long-distance. On site operation through short-distance (30-50m) wireless communication

6. With manual input-resect capacitance function, manual input and resect capacitor under the condition without voltage and current signal. Integrated protection function. PFC distribution monitoring compensator has functions of protecting against over voltage, phase loss, under voltage, harmonic wave overflow etc. and it can allow or forid alarm relay drawing and closing through control parameters.

Adjust the control parameter and clock of PFC with long-distance by making use of the communication functions of analysis system software, can monitor all parameters of electric network and the input-resect states of capacitors under real time, input-resect the capacitors under long-distance control, also can display all electric parameters including harmonic wave under real time and download the history recorded data etc.

The analysis functions will downlad history data in large quantities and store, classify and collate according to the device No. orderly. It can display or print any electric network parameter according to user's indicated

With menu and shortcut toolbar, visual and lucid, and its majority part of operation can be achieved by the

JKW18G Series **High Voltage Reactive Power Compensation Controller**



General Description

JKW18G high voltage reactive power compensation controller is a new generation distribution test control device as integrating data acquisition, power network parameter analysis, reactive power compensation communication as a unit, which is suitable for controlling the high voltage power network system parameter monitors and reactive compensation, can offer the perfect and accurate data basis for power network safety running, reasonable distributing load improving electric energy quality ect.

Service 1. Altitude: not exceed 2500m. conditions 2. Ambient temperature: -25°C~50°C. 3. Air humidity should not exceed 50% at 40°C and not exceed 90% at 20°C. 4. No corrosive gas, conductive dust and flammable and explosive medium around the ambient. 5. No fierce vibration at in stallation site.

Main specification	Product model	Tapping size	Power voltage	Signal frequency	Control circuit	Display
model	JKW18G	139×139	AC220V	50/60Hz	1~6	LCD

Technical	Power voltage: AC220V±10%
parameters	Power frequency: 45-65Hz
1. Basic parameter	Signal frequency: 45-65Hz
	Signal voltage: AC50-260V
	Signal current: AC0-5A
	Power consumption of machine: <10V/

Technical parameters 2. Measure precision

Voltage: ±0.5% Current: ±0.5% Power factor: ±1.0% Active power: $\pm 1.0\%$ Reactive power: $\pm 1.0\%$ Active coulom: $\pm 1.0\%$

Reactive coulom: ±1.0% Electric network frequency: ±0.01Hz System clock: ±4ppm, yearly error less than 2min

Function characteristic

to be optimal.

- and capacitor capacity etc can be set.
- function and portable computer data can be performed.

JKW18G Series **High Voltage Reactive Power Compensation Controller**

1. suitable for controlling the high voltage power network system, to make the power factor of electric network

2. Full big screen display (contain back light. The back light is bright by operating any key. If within 1min there isn`t any operation, the back light will extinguish automatically), with friendly human machine interface and visual and simple Chinese present operation. Actual time calculation displays three-phase power factor, three-phase active power, three-phase reactive power, three-phase voltage, three-phase current, zero sequence current, three-phase voltage distortion rate. Three-phase current distortion rate, 3-13 times voltage and current harmonic wave contain rate, real time clock, active electrical degree and reactive electrical degree etc.

3. JKW18G type distribution monitoring controller can widely store 24 integral points data and the daily statistical data reaching min 200 days. And also can be extended to 800 days according to user's requirement, Data includes the three-phase voltage, three-phase current, three-phase power factor, three- phase active power, three-phase reactive power, three-phase voltage distortion rate, three-phase current distortion rate. active electrical degree and reactive electrical degree of everyday integral hours. Calculate everyday max and min three-phase voltage and the time of occurrence, daily max and min three-phase current and the time of occurrence. daily min three-phase power factor and the time of occurrence, daily max and min three-phase active power and the time of occurrence, daily max and min three-phase reactive power and the time of occurrent, daily max and min three-phase voltage distortion rate and the time of occurrence, daily max and min three-phase current distortion rate and the time of occurrence. daily three-phase voltage on the high and low side time. daily three-phase voltage percent of pass. daily three-phase voltage distortion rate standards exceeding time. daily three-phase current distortion rate standard-exceeding time, daily three-phase power factor less than 0.95 time, load unbalance rate standard-exceeding time. running total time of 1-6 step capacitor, input-resect times of 1-6 step capacitor, power failure moment, incoming power moment. Power failure times, incoming power times. daily max current value for 15min and the time of occurrence.

4. Various control parameter functions of full digital pre-set, password, ID number (for communication), PT transformation ratio, CT transformation ratio, over voltage threshold, under voltage threshold, target power factor threshold, input-resect delay, distortion rate threshold. Clock. Compensation schemes. Input-resect codes

5. Communication functions: with RS232 and RS485 communication port of hardware conventions. Adopting 101 or MODEBUS-RTU communication conventions. On site or long-desiance communication can be executed. Can realize real time, summon various electric parameter by timing, modify control parameter and input-resect capacitance through long-distance. On site operation through short-distance (30-50m) wireless communication

6. With manual input-resect capacitance function, manual input and resect capacitor under the condition without voltage and current signal. Integrated protection function. JKW18G distribution monitoring compensator has functions of protecting against over voltage. Phase loss. under voltage. Harmonic wave overflow etc. And it can allow or forbid alarm relay drawing and closing through control parameters.

JKW18G Series High Voltage Reactive Power Compensation Controller

Connection drawing High voltage side 10 11 12 13 2 3 1 4 5 6 7 8 9 sampling 2A AC220V voltage sampling 2IN 212 2I1 1I2 1I1 1IN Power input 1IN, 111, 112 is capacitor 1 current sampling, 1IN is common port 2IN, 211,212 is capacitor 2 current sampling, 2IN is common port If do not use the controller protecion function, do not need connect the wire Current СТ PT 8 C6 C5 C4 C3 C2 C1 v Alarm relay 33 32 31 20 19 18 17 16 15 14 L3 L2 L1

1.3: Power input

- 2: Earth the ground(can not connect)
- 4.5.6: Any two phase of capacitor 2 current sampling input, one side of the second output line of two current transformers connect to 4 and 5, the other side shunt to 6 port

7.8.9 Any two phase of capacitor 1 current sampling input, one side of the second output line of two current transfermers connect to 7 and 8, the other side shunt to 9 port

- 10.11 Sampling current signal input AC0-5A
- 12.13 Sampling voltage signal
- 14: The common port of output control signal
- 15-20: 6 Step drive output, AC220V/5A each step
- 31、33: Alarm output contact capacity of passive normal open switch: AC220A 5A



Flush type and guide rail type



Switch-over Capacitor Http://www.zhiyue.com Contactor





General Description

CJ16(19)switch-over capacitor contactor is new type of components for electric appliances, which is developed and produced on the basis of the introduced foreign technology of the same kind. The device is widely applied to the low voltage reactive power compensation screen to replace the subassembly composed of three Xd1 current-limiting reactors and a CI10 contactor, and it is also can be used in the general control circuit to limit flashy flow.

Work condition

1. The altitude of installation place can not exceed 2000m 2. The air temperature around can not exceed 40° C, not lower than -5° C 3. Humidity: 50% at 40 °C, 90% at 20°C 4. Install condition: can not incline 5° to vertical plane 5. Class of pollution: 3degree 6. No impact and shake

Structure 1. The contactor has install current-limited resistor, can restrain the switch on inrush current. characteristics 2. The contactor is direct-acting and double-break structure, operation flexible, conveniently manual operation inspect. 3. The contactor connection terminal has insulating boot, very safe. 4. The contactor can be instal by screw, also can instal in the bus bar.

Connection Drawing



Main technical		Mode		CJ19-25	CJ19-32	CJ19-43	CJ19-63	CJ19-95	CJ19-115	CJ19-150	CJ19-170
data	Conventional thermal current Ith A		25	32	43	63	108	250	250	250	
	Rat	ed current(A)	AC-6b A	17	25	29	43	74	87	115	130
	Cox	ntrolled	230V-250V	6	9	10	15	29	35	45	52
	cap	pacitor	400V-450V	12	15	20	30	50	60	80	90
		kvar	690V	10	15	20	30	45	55	65	75
	Cap	pability to r	estrain surge				20	Din			
		Working volt	age Us 50Hz V		220	、380 acc	ording to th	ne custome	r's requirem	ent	
1	Operating		range	0.85~1.1Us							
	¥:	Consumed	Start		115 200 300			300			
		power VA	holding		11		2	0		22	
	Electrical endurance10 ⁴ times			10		8	6		2		
	Me	chanical life	10 ⁴ times		100		80	60		20	
	The max operation frequency times/h			300 120							
	ins	ulation volta	ige (V)		50	V		660V		1000V	
	Ap	Convention th	nermal current (A)	10							
	Auxiliary	Electrical	AC-15 360VA					12			
	8 10 ⁴ tin		DC-13 33W	12							
			load to connect				6V×	10mA			
	curre	ent-limited resist	or input time(ms)				7	~9			



CJ19 Series Switch-over Capacitor Contactor





CJ19-63.95

Φ6.

Overall and installation size



CJ19 Switch-over Capacitor Contactor	
CJ19-25	
CJ19-32	
CJ19-43	
CJ19-63	
CJ19-95	
CJ19-115	
CJ19-150	
CJ19-170	

35 <<< **ZHIYUE**

CJ19 Series Switch-over Capacitor Contactor



CJ19-115.150.170

Amax	Bmax	Cmax
47	80	124
58	90	132
58	90	136
79	132	150
87	132	160
121	220	156
121	220	156
121	220	156





Brief

introduction

ZUKCS series reactive dynamic compensation regulator is an electronic type power device module that can be used for fast input-cutting for power shunt capacitor. Its electric structure is mainly composed of high-power inverse parallel thyristor module, isolating circuit, trigger circuit, sync circuit, protection circuit and drive circuit. It is equipped with the connecting terminals through control switch on and off, to control logical voltage 0V(off) and 12V(on). The switch has the characteristics of simple installation, convenient maintenance, quick response speed, no rush current for input-cut, no noise during working, running reliably and stabbly and with phase lack protection etc. It is the ideal device for input-cut capacitor groups used for reactive power dynamic compensation device.

Working conditions	 Ambient air temperature:-25°C to +50°C, the average temperature Should not exceed +30°C in 24h. The relative humidity can reach 100% in short time at +25°C. Altitude should not exceed 2000m. The installation site should be with clean air, without explosive, flammable and dangerous articles and without the gas which may damage insulation and erode metals at a sufficient quantity, no conductive dust and rain and snow exist. No obvious overrun harmonic wave company.
	5. No obvious over un namonic wave company.

Rated voltage: 380V(220V) Main technical Ratedfrequency: 50Hz parameters Control capacity: 380V Grade: 1kvar to 50kvar 220V grade: 1kvar - 15kvar



Model



IFT2: NV when temperature switch below 75°C EV: Blower fan K1、K2、K3: Control signal from controller ZYKCS1A only connect K1 ZYKCS3F: K1 contral C1 K2 contral C2 K3 contral C3

1. Whole control method drawing

ZUKCS Series Dissolve switch w/o contact

- ☐ 1 for single-phase
- 3 for three-phase
- Max reactive power to control Ex:10(Kvar)
- Voltage grade Ex: 0.4(KV) or 0.25(KV)
- 1A one product can control one group of three-phase capacitor
- 2F one product can control two groups of single-phase capacitor
- ^L 3F one product can control three groups of single-phase capacitor
- Product sort code

Can control capacitor
(1-20)kvar three phase capacitor
(21-30)kvar three phase capacitor
(31-40)kvar three phase capacitor
(41-50)kvar three phase capacitor
3×(1-10)kvar split capacitor
$3 \times (11-15)$ kvar split capacitor

V: Common terminal of control signal+12V N: ZYKCS3F connect netrual ZYKCS1A disconnect





2、Semi-control method drawing





ZUFK Series Intelligent Combination Switch

ZUFK Series Intelligent Combination Switch

Product model	Can control capacitor	time interval between cut off and put on
ZUFK-60-380-∆	(1-20)kvar three phase capacitor	At least 60s
ZUFK-80-380-∆	(21-30)kvar three phase capacitor	At least 60s
ZUFK-100-380-∆	(31-40)kvar three phase capacitor	At least 60s
ZUFK-60-220-Y	$3 \times (1-7)$ kvar splitting compensation capacitor	At least 60s
ZUFK-80-220-Y	3×(7-10)kvar splitting compensation capacitor	At least 60s
ZUFK-100-220-Y	$3 \times (11-15)$ kvar splitting compensation capacitor	At least 60s

Indicator indicating instruction

 SWITCH ON and SWITCH OFF light only lighten one in the same time to indicate the switch working state.
 PHASE LACK light means there are at least one phase is not together, conglutinative compensating type has the function of cutting off when phase lack.

3. Delay indicator on means after the switch has putting on controller signal, the PUTTING ON indicator light, but if not reach the set capacitor discharge delay time, it can not putting on immediately, this time, the delay indicator flicker, after discharge delay time, the delay indicator off, and put on the switch.

Function characteristic

Voltage across zero put on, current across zero cut off, no harmonic current, do not appear over voltage.
 Low power dissipation after power on, do not need add air-cooling fin.
 Do not produce harmonic, do not need series connecting reactor.
 Put in signal isolated with switching optical, high EMC protection, good capacity of resisting disturbance.
 Can match with our dynamic compesation controller.
 Built-in power , no need add outside power.
 Switch operation state has two type, put on and cut off , has indicator for phase not together and delay.
 Have strong compositive protection capacity, include system input voltage phase not together protection,

power voltage phase not together protection, undervoltage protection, power off protection, and so on.

Main technique data

 Rated voltage 380V ± 20%, lifespan : 300 thousand times
 Switch withstand voltage ≥2000V, switch power dissipation ≤2W
 Switch pressure drop: ≤0.05V, put and cut alternation: ≥30S
 Insulation strength: 2.5kv/1 min arrowd harmonic ≤10%
 Control circuit control storge battery 5-24VDC input current <10mA
 Electromagnetic compatibility measurement, pulse group IEC255-22-1 2degree, Fadiation field IEC 60255-22-3 2degree. electrostatic discharge IEC255-22-2 3 degree. Fast transient IC61000-4-4 3degree.

Drawing

Outline



dimension 101 Attention than 30 sec. sealing fix. Notice: together. we adopt common positive pole port output. 80A, 31-40kvar use 100A.

ZUFK Series

Drawing instruction:

L1,L2,L3: three phase input port, connect the power net C1,C2,C3:three phase output port, connect the capacitor or reactor

K1,K2,K3: from the controller's negative electrode control signal, conglutinative compensation switch only need connect K1, control three phase output splite compensation switch K1 control C1 output, K2 control C2 output, K3 control C3output V: control signal common port positive pole input N: power net null line input port



Outline dimensions: $160(L) \times 96(W) \times 101(H)mm$ Ashing eye dimension: $142(L) \times 80(W)mm$ Across corner install

1. splitting compensation switch connect the capacitor by Y type connection, the three output of the switch connect one port of three pcs single phase capacitor, the other port of capacitor connect null line.

when use the switch in the condition of harmonic more than 5%, we suggest you adopt some harmonic solution.
 the combination switch do not fit for frequently cut an put place, we suggest the cut and put alternation is more

4. vertical installation, across corners fixed. Use up and down two layer U type steel to fix, do not use iron for

5. when use combination switch, please choose the right capacity and specification, well connected. Usually can use MCB as the cut point, the capacity can choose 1.1-1.3 of capacitor's capacity.

when use single phase combination switch, please do well connect the single phase capacitor's null line, or will make the combination switch power null line overload, the null line will damage.

1. For the splitting compesation switch, the capacitor capacity means three pcs single phase capacitors' capacity

Splitting compensation switch has two control method: one adopt the controller use common positive pole port output. The other use common negative port output. If use our reactive power compensation controller, we adopt common positive pole port output.

3. Combination thermal current choose: usually, the capacity smaller than 20kvar, use 60A, 21kvar-30kvar use