



**PCM series distribution module** 



♦ Shortest Delivery Period

♦ Optimal Service

### **Corporate Culture**

#### Vision:

To make our company to be one of the leading enterprises in the industry of our domestic master-control electrical appliances with low-voltage and the construction machinery lighting.

#### Our Mission:

To provide customers with the best quality, the shortest delivery period, the best cost-effective products and optimal service!

#### Values:

Customer-oriented, never forget the mission; Pragmatic innovation, win-win cooperation!



### **Company Profile**



Jiangyin Changjiang was built in 1992, the first company who designed the low voltage signal lamp with LED technology, and it was been used and produced. At the same time, created the brand of "Changjiang Electric Appliance" and gradually build it into a famous brand in China.

After 30 years of trials and hardships, the company has developed into a leader in the lighting industry of electrical appliances and construction machinery. The main products include: signal lamp, button, transfer switch, current transformer and construction machinery lighting, etc., widely used in the electric power, construction machinery, industrial control, elevator, communication, rail transit, new energy and other industries. The company's products are novel in design and reliable in performance, which are widely recognized by downstream customers, including many well-known enterprises.

We adhere to be customer-oriented, rapidly response to our customers' non-standard customization needs, and strive to provide excellent solutions for customers; We adhere to the technical innovation as the support, and constantly expand our R&D team to focus on the product's development and upgrading; We insist on doing excellence in every detail, continuous optimization and improvement, and strive to provide superior quality and service for customers.

# 公司资质 ENTERPRISE QUALIFICATION

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### **Design** patent

PT switching module-2021304485939 PT secondary module-2021304486039 JG operating module-2021304344428 JG secondary module-2021304485854

### **Utility model patent**

PT switching module-2021216162764

JG secondary module-2021216162707

### **Pending patent**

Miniaturized JG secondary module-2022301688531

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According to the following standards, our company carries out standardized module design for primary and secondary combined ring main unit.

GB/T2423.1	Environmental testing - Part 2: Test methods - Tests A: Cold			
GB/T2423.2	Environmental testing - Part 2: Test methods - Tests B: Dry heat			
GB/T11022	Common specifications for high-voltage alternating-current switchgear and controlgear standards			
GB/T5169.11	Fire hazard testing for electric and electronic products-Part 11: Glowing/hot-wire based test methods-Glow-wire flammability test method			
	for end-products (GWEPT)			
CD/T14049 5	Low-voltage switchgear and controlgear-Part 5-1: Control circuit devices and switching element-Electromechanical			
GB/114048.5	Degrees of protection provided by enclosure(IP code)			
GB/14208	Envrionmental testing for electric and electronic products - Part 2: Test method - Test Ka: Salt mist			
GB/T2423.17 GB/T2423.10	Environmental testing—Part 2:Test methods—Test Fc:Vibration(sinusoidal)			
GB/T2423.10	Environmental testing-Part 2: Test methods-Test Ea and guidance: Shock			
GB/T5095.6	Electromechanical components for electronic equipmentBasic testing procedures and measuring methodsPart 6:Climatic tests and soldering			
	tests			
GB/T13729	Remote terminal unit equipment			
GB/T15153.1	Telecontrol equipment and systems—Part 2: Operating conditions—Section 1: Power supply and electromagnetic compatibility			
GB/T35732	Technical specifications of intelligent remote terminal unit of distribution automation			
GB/T17626.4	Electromagnetic compatibility-Testing and measurement techniques-Electrical fast transient/burst immunity test			
GB/T17626.5	Electromagnetic compatibility—Testing and measurement techniques—Surge immunity test			
GB/T17626.2	Electromagnetic compatibility—Testing and measurement techniques – Electrostaic discharge immunity test			
GB/T2828.1	Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot			
	inspection			



## **Module for Distribution Terminal Unit**

- Integrated modular design, simple and elegant appearance;
- Fast and convenient installation, efficient operation and maintenance;
- Module seal design, through the rectangular connector connection, anti-condensation performance is outstanding;









Characteristic

よう HANGJIANG

### Technology specification

Installation		Snap (PT1, JG1), Screw (PT2, JG3, JG3S, JG2)			
Material		ABS			
Temperature		-40°C~+70°C, Max conversion rate °C/min: 1.0			
Humidity		Relative humidity %: 10~100, Max absolute humidity g/m <sup>3</sup> : 35			
Altitude	GB/T 11022	≤3000m, customized high	altitude		
Salt spray	GB/T 2423.17	96h			
Flame resistance	GB/T 5169.11	Fixed current-carrying con	nponent: 750°C, Others: 650°	C	
Protection	GB/T 4208	IP65			
Vibration	GB/T 2423.10	Frequency: 10-500Hz, Acc	celeration: 20m/s <sup>2</sup>		
Shock	GB/T 2423.5	Peak acceleration: 294m/s	2		
Damp heat	GB/T 2423.3	48h			
Rated short thermal		Short time overinput curre	nt: 100A, tiem: 1s, 5 times, ir	nterval time: 300s	
current		Withstand the insulation st phenomenon	trength test of 50Hz AC test v	voltage for 1min, no breakdo	wn, no flashover
		Rated insulation voltage U	i (V)	Effective value of test voltage (V)	
Insulation voltage	GB/T 5095.6			500	
		60 < Ui≤125		1000	
		125 < Ui ≤ 250 2500			
	GB/T 2423.5	Withstand the following requirements of impulse voltage, impulse voltage pulse waveform is 1.2/50µs, positive and negative polarity is applied 5 times, the interval between two pulses is not less than 5s			
Surge voltage		Rated insulation	Effective value of test voltage (V)	Rated insulation	Effective value of test voltage (V)
Surgevenuge		U≤60	1000	125 < U <u>&lt;</u> 250	5000
		60 < U≤125	5000	250 < U ≤ 400	6000
	GB/T 17626.4	a)Class: 4;			
		b)Test voltage: power circuit 4kV, others: 2kV			
Electrical fast transient/burst		c)Frequency: 5kHz或100kHz			
immunity		d)Times: 1 minute per time			
		e)Test voltage application times: positive 3 times and negative 3 times			
	GB/T 17626.5	a)Class: 4			
		b)Test voltage: L-L 2kV, L-G 4kV			
		c)Waveform: 1.2/50 μs			
Surge immunity		d)Polarity: positive, negative			
		e)Test times: positive 5 times and negative 5 times			
		f)Frequency: 1 time per minute			
	Apply the electrostatic discharge voltage according to the following provisions, positive and negative				ive and negative polarity
		discharge 10 times, each discharge interval is at le		Tes	st value
Electrostaic discharge immunity	GB/T 17626.2	Test item	Class	Contact	Air
			4	±8kV	±15kV



# PT switching module





#### Model



#### Function

• The function module that switches the output of the three-phase measurement voltage of the voltage transformer arbitrarily.

#### **Pin definition**

#### Input pin

Pin	Label	Description
5	Ua	
6	Ub	Measuring voltage
7	Uc	
8	Un	

#### Output pin

Pin	Label	Description
1	U	Meter voltage
2	Un	

#### Mounting hole size





#### **Outline drawing**









### PT secondary module





#### Model



Up-line 32-pin + rectangular connector 1-pin definition

#### Function

• The voltage is transmitted from the voltage transformer to the DTU and PT switching module through the rectangular connector connection.

#### **Pin definition**

Pin	Label	Description	
1	/	/	
2	/	/	
3	/	/	
4	/	/	
5	/	/	
6	/	/	
7	/	/	
8	/	/	
9	Ula		
10	Ulb	AC power input	
11	Ulc		
12	BY	Standby	
13	Ua	A-phase voltage (Measurement/metrology	
14	Ub	B-phase voltage (Measurement/ metrology	
15	Uc	C-phase voltage (Measurement/ metrology	
16	Un	Phase voltage com pin	
17	UO	Zero sequence	

Pin	Label	Description	
18	U0n	Zero sequence voltage common pin	
19	/	/	
20	/	/	
21	/	/	
22	/	/	
23	/	/	
24	/	/	
25	/	/	
26	/	/	
27	/	/	
28	/	/	
29	/	/	
30	/	/	
31	/	/	
32	/	/	
33	GND	Ground	



Down-line rectangular connnector 10-pin definition

Label	Description	
Ula		
Ulb	AC power supply	
Ulc		
Uln		
Ua	A-phase voltage	
Ub	B-phase voltage	
Uc	C-phase voltage (Measurement/ metrology)	
Un	Phase voltage	
UO	Zero sequence	
U0n	Zero sequence	
	Label Ula Ulb Ulc Uln Ua Ub Uc Un Uc Un Un U0 U0	

Up-line rectangular connnector 10-pin definition

Pin	Label	Description
1	/	
2	/	
3	/	/
4	/	
5	Ua	A-phase voltage (Measurement/metrology)
6	Ub	B-phase voltage (Measurement/ metrology)
7	Uc	C-phase voltage (Measurement/ metrology)
8	Un	Phase voltage common pin
9	/	/
10	/	/

#### Module mounting hole size



#### 32-pin connecter assembly size (32DZA)









# JG operating module





#### Model



#### Function

• The rectangular connector is connected with the interval secondary module to realize the opening and closing operation of the primary and secondary fusion ring network cabinet, the opening and closing indication, and the remote and local control of the inlet/outlet interval module.

#### **Pin definition**

Pin	Mark	Description	Cable	Note
1	Ycom	Positive com pin	RV1.5mm <sup>2</sup>	
2	YSA3	Remote operate	RV1.5mm <sup>2</sup>	
3	SHCZ	Manual closing operat	e RV1.5mm²	
4	SFCZ	Manual opening opera	te RV1.5mm²	
5	FD	Opening indicator lam	p RV1.5mm <sup>2</sup>	
6	HD	Closing indicator lamp	RV1.5mm <sup>2</sup>	
7	SA3+	Remote communication + pin	RV1.5mm <sup>2</sup>	
8	SA3-	Remote	RV1.5mm <sup>2</sup>	

Pin	Mark	Description	Cable	Note
9	YHCZ+	Remote control closing pressing plate	<sup>#</sup> RV1.5mm <sup>2</sup>	
10	YHCZ-	Remote control closing pressing plate	RV1.5mm <sup>2</sup>	
11	YFCZ+	Remote control openir pressing plate	<sup>g</sup> RV1.5mm <sup>2</sup>	
12	YFCZ-	Remote control openir pressing plate	<sup>g</sup> RV1.5mm <sup>2</sup>	
13	DHCZ+	Protective closing plat	≈ RV1.5mm²	
14	DHCZ-	Protective closing plat	RV1.5mm <sup>2</sup>	
15	DFCZ+	Protective trip-out plat	e RV1.5mm²	
16	DFCZ-	Protective trip-out plat	∘ RV1.5mm²	

#### Mounting hole size









### JG secondary module (centralized)





#### Model



#### Function

• Through the rectangular connector connection, the control of the operation loop, the transmission of current and remote signal from the primary mechanism to the DTU, and the input/outlet interval module of the primary and secondary fusion ring network cabinet can realize the power distribution function.

#### **Pin definition**

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
1					
2					
3					
4					
5					
6					
7					
8					
9	KM+	48V power +	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	Decentralized: N/A
10	KM–	48V power -	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	Decentralized: N/A
11	KHZ	Remote control closing output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	
12	KFZ	Remote control opening output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	Relay control output
13	КСОМ	Remote control com output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	-
14	DHZ	Protective control closing output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	
15	DFZ	Protective control opening output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	Relay control output
16	DCOM	Protective control com output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	

Up-line rectangular connector 32-pin definition (DTU)



Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
17	YXCOM	Remote communication com	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
18	GKW	Main switch position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	Remote communication positive power (+24V)
19	DKW	Grounding switch position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
20	KZHLBJ	Warning of control citcuit	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
21	WCN	Unstored energy position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
22	YF	Remote/Local	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
23	HW	Closing position	RVVP1.0mm <sup>2</sup> RV1.0mm <sup>2</sup>		
24	FW	Opening position	RVVP1.0mm <sup>2</sup> RV1.0mm <sup>2</sup>		
25	la+	A-phase current +	RVVP2.5mm	RV2.5mm <sup>2</sup>	
26	la–	A-phase current -	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
27	lb+	B-phase current +	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
28	lb–	B-phase current -	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
29	lc+	C-phase current +	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
30	lc–	C-phase current -	RVVP2.5mm <sup>2</sup>	RVVP2.5mm <sup>2</sup> RV2.5mm <sup>2</sup>	
31	10+	Zero sequence current +	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
32	10-	Zero sequence current -	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
33	GND	Grounding		RV2.5mm <sup>2</sup>	

Down-line rectangular connnector 32-pin definition (connect to organ and CT)

Pin	Mark	Description	Cable	Note
1	HW1–	Closing position +	RV1.5mm <sup>2</sup>	For closing indicator lamp
2	FW1+	Opening position +	RV1.5mm <sup>2</sup>	For opening indicator lamp
3	Y3com	Com	RV1.5mm <sup>2</sup>	For indicator com
4	DQYBS	Low pressure lock	RV1.5mm <sup>2</sup>	For operating circuit
5	DQYBS	Low pressure lock	RV1.5mm <sup>2</sup>	For operating circuit
6	HW2+	Closing positon +	RV1.5mm <sup>2</sup>	For opening circuit
7	HW2–	Closing positon -	RV1.5mm <sup>2</sup>	For opening circuit
8	FW2+	Opening position +	RV1.5mm <sup>2</sup>	For closing circuit
9	FW2–	Opening position -	RV1.5mm <sup>2</sup>	For closing circuit
10	HZ+	Closing	RV1.5mm <sup>2</sup>	
11	FZ+	Opening	RV1.5mm <sup>2</sup>	
12	HFZ-	Com for closing and opening	RV1.5mm <sup>2</sup>	
13	CN+	Stored energy	RV1.5mm <sup>2</sup>	
14	CN-	Stored energy	RV1.5mm <sup>2</sup>	
15		Standby		
16	Ycom	Remote communication com	RV1.5mm <sup>2</sup>	DC24V+
17	HW3	Closing positon	RV1.5mm <sup>2</sup>	

Pin	Mark	Description	Cable	Note
18	FW3	Opening position	RV1.5mm <sup>2</sup>	
19	GKW	Main switch position	RV1.5mm <sup>2</sup>	
20	DKW	Grounding switch position	RV1.5mm <sup>2</sup>	
21	WCN	Unstored energy position	RV1.5mm <sup>2</sup>	
22	DQYBJ	Warning of control citcuit	RV1.5mm <sup>2</sup>	
23		Standby		
24		Standby		
25	la+	A-phase current +	RV2.5mm	
26	la-	A-phase current -	RV2.5mm <sup>2</sup>	
27	lb+	B-phase current +	RV2.5mm <sup>2</sup>	
28	lb–	B-phase current -	RV2.5mm <sup>2</sup>	
29	lc+	C-phase current +	RV2.5mm <sup>2</sup>	
30	lc–	C-phase current -	RV2.5mm <sup>2</sup>	
31	10+	Zero sequence current	+ RV2.5mm <sup>2</sup>	
32	10-	Zero sequence current	<sup>-</sup> RV2.5mm <sup>2</sup>	
33	GND	Grounding	RV2.5mm <sup>2</sup>	

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#### Phoenix terminal 20-pin definiton

Pin	Mark	Des	cription	Cable	Note
1					
2					
3	KM+	KM+ KM+	48V+	RV1.5mm <sup>2</sup>	
4	KM–	KM– KM–	48V-	RV1.5mm <sup>2</sup>	
5	KM+	KM+ KM+	48V+	RV1.5mm <sup>2</sup>	
6	KM–	KM– KM–	48V-	RV1.5mm <sup>2</sup>	
7					
8					
9					
10					

Pin	Mark	Description	Cable	Note
11				
12				
13				
14				
15	PA1+	A-phase ammeter	RV2.5mm <sup>2</sup>	
16	PA1–	A-phase ammeter	RV2.5mm <sup>2</sup>	
17	PA2+	B-phase ammeter	RV2.5mm <sup>2</sup>	
18	PA2-	B-phase ammeter	RV2.5mm <sup>2</sup>	
19	PA3+	C-phase ammeter	RV2.5mm <sup>2</sup>	
20	PA3–	C-phase ammeter	RV2.5mm <sup>2</sup>	

#### Module mounting hole size



#### 32-pin connecter assembly size (32DZA)







### JG secondary module (decentralized)





#### Model



#### Function

• Through the rectangular connector connection, the control of the operation loop, the transmission of current and remote signal from the primary mechanism to the DTU, and the input/outlet interval module of the primary and secondary fusion ring network cabinet can realize the power distribution function.

#### **Pin definition**

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
1	Ua	A-phase voltage + (Measurement/metrology)	RV1.5mm <sup>2</sup>		Centralized: N/A
2	Ub	B-phase voltage + (Measurement/ metrology)	RV1.5mm <sup>2</sup>		Centralized: N/A
3	Uc	C-phase voltage + (Measurement/ metrology)	RV1.5mm <sup>2</sup>		Centralized: N/A
4	Un	Phase voltage com pin	RV1.5mm <sup>2</sup>		Centralized: N/A
5	U0+	Zero sequence voltage	RV1.5mm <sup>2</sup>		Centralized: N/A
6	U0-	Zero sequence voltage com	RV1.5mm <sup>2</sup>		Centralized: N/A
7	PW+	24V power +	RV1.5mm <sup>2</sup>		Centralized: N/A
8	PW-	24V power -	RV1.5mm <sup>2</sup>		Centralized: N/A
9	PPS+	pulse per second +	RV1.0mm <sup>2</sup>		Differential pulse
10	PPS-	pulse per second -	RV1.0mm <sup>2</sup>		Differential pulse
11	KHZ	Remote control closing output	RV1.5mm <sup>2</sup>		
12	KFZ	Remote control opening output	RV1.5mm <sup>2</sup>		Relay control output
13	КСОМ	Remote control com	RV1.5mm <sup>2</sup>		
14	DHZ	Protective control closing output	RV1.5mm <sup>2</sup>		
15	DFZ	Protective control opening output	t RV1.5mm <sup>2</sup>		Relay control output
16	DCOM	Protective control com	RV1.5mm <sup>2</sup>		

Up-line rectangular connector 32-pin definition (DTU)

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
17	YXCOM	Remote communication com	RV1.0mm <sup>2</sup>		
18	GKW	Main switch position	RV1.0mm <sup>2</sup>		Remote communication positive power (+24V)
19	DKW	Grounding switch position	RV1.0mm <sup>2</sup>		
20	KZHLBJ	Warning of control citcuit	RV1.0mm <sup>2</sup>		
21	WCN	Unstored energy position	RV1.0mm <sup>2</sup>		
22	YF	Remote/Local	RV1.0mm <sup>2</sup>		
23	HW	Closing position	RV1.0mm <sup>2</sup>		
24	FW	Opening position	RV1.0mm <sup>2</sup>		
25	la+	A-phase current +	RV2.5mm		
26	la–	A-phase current -	RV2.5mm <sup>2</sup>		
27	lb+	B-phase current +	RV2.5mm <sup>2</sup>		
28	lb–	B-phase current -	RV2.5mm <sup>2</sup>		
29	lc+	C-phase current +	RV2.5mm <sup>2</sup>		
30	lc–	C-phase current -	RV2.5mm <sup>2</sup>		
31	10+	Zero sequence current +	RV2.5mm <sup>2</sup>		
32	10-	Zero sequence current -	RV2.5mm <sup>2</sup>		
33	GND	Grounding			

#### Down-line rectangular connnector 32-pin definition (connect to organ and CT)

Pin	Mark	Description	Cable	Note
1	HW1–	Closing position +	RV1.5mm <sup>2</sup>	For closing indicator lamp
2	FW1+	Opening position +	RV1.5mm <sup>2</sup>	For opening indicator lamp
3	Y3com	Com	RV1.5mm <sup>2</sup>	For indicator com
4	DQYBS	Low pressure lock	RV1.5mm <sup>2</sup>	For operating circuit
5	DQYBS	Low pressure lock	RV1.5mm <sup>2</sup>	For operating circuit
6	HW2+	Closing positon +	RV1.5mm <sup>2</sup>	For opening circuit
7	HW2–	Closing positon -	RV1.5mm <sup>2</sup>	For opening circuit
8	FW2+	Opening position +	RV1.5mm <sup>2</sup>	For closing circuit
9	FW2–	Opening position -	RV1.5mm <sup>2</sup>	For closing circuit
10	HZ+	Closing	RV1.5mm <sup>2</sup>	
11	FZ+	Opening	RV1.5mm <sup>2</sup>	
12	HFZ-	Com for closing and opening	RV1.5mm <sup>2</sup>	
13	CN+	Stored energy	RV1.5mm <sup>2</sup>	
14	CN-	Stored energy	RV1.5mm <sup>2</sup>	
15		Standby		
16	Ycom	Remote communication com	RV1.5mm <sup>2</sup>	DC24V+
17	HW3	Closing positon	RV1.5mm <sup>2</sup>	

Pin	Mark	Description	Cable	Note
18	FW3	Opening position	RV1.5mm <sup>2</sup>	
19	GKW	Main switch position	RV1.5mm <sup>2</sup>	
20	DKW	Grounding switch position	RV1.5mm <sup>2</sup>	
21	WCN	Unstored energy position	RV1.5mm <sup>2</sup>	
22	DQYBJ	Warning of control citcuit	RV1.5mm <sup>2</sup>	
23		Standby		
24		Standby		
25	la+	A-phase current +	RV2.5mm	
26	la–	A-phase current -	RV2.5mm <sup>2</sup>	
27	lb+	B-phase current +	RV2.5mm <sup>2</sup>	
28	lb–	B-phase current -	RV2.5mm <sup>2</sup>	
29	lc+	C-phase current +	RV2.5mm <sup>2</sup>	
30	lc–	C-phase current -	RV2.5mm <sup>2</sup>	
31	10+	Zero sequence current	+ RV2.5mm <sup>2</sup>	
32	10-	Zero sequence current	<sup>-</sup> RV2.5mm <sup>2</sup>	
33	GND	Grounding	RV2.5mm <sup>2</sup>	



Note

Pin	Mark	Des	cription	Cable	Note
4	DW/	PW+	2434		
1	P VV+	PW+	24 V+	RV1.5mm <sup>2</sup>	
2	D\W	PW –	241	$DV/1 Emm^2$	
2	1 00 -	PW –	24 V -	RV1.5mm	
3	KM+	KM+	48V+	$DV/1 Emm^2$	
		KM+	1011	KV1.5IIIII	
4	KM-	KM-	48V-	$DV/1 Emm^2$	
		KM–	40 V -	RV1.5mm	
5	5 KM+	KM+	4937-	$DV/1 Emm^2$	
		KM+	40 V	KV1.5IIIII	
6	KM KM-		4037	$DV/1 Emm^2$	
		KM-	48 V -	KV1.5IIIII	
7	Lla	Ua	A-phase voltage	$DV/1 Emm^2$	
<u> </u>	04	Ua	A-phase voltage	RV1.5mm	
8	Lib	Ub	B-phase voltage	D) /1 5	
	0.0	Ub	D phase ronage	RV1.5mm	
q	LIC	Uc	C-phase voltage	$DV/1 Emm^2$	
	00	Uc	- Finise Fordige	KVT'2UIIII-	
10	Lin	Un	Com	$DV/1 Emm^2$	
10	Un	Un	com	KAT'2WW-	

Phoenix terminal 20-pin definiton
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11	U0	U0	Zero sequence	RV1.5mm <sup>2</sup>	
		00	voitage		
12	U0n	U0n	Zero sequence	$RV1.5mm^2$	
		U0n	voltage	101.511111	
13	PPS+	PPS+	pulse per second		
	110+	PPS+	puise per secone		
14	DDC	PPS-			
14	FF3-	PPS-	puise per second	l.	
15			A-phase	DV/2 Emm2	
15			ammeter RV2.5MM <sup>2</sup>		
16			A-phase		
10	FAI=		ammeter	RV2.5mm <sup>2</sup>	
17	DA2		B-phase		
	I AZT		ammeter	RV2.5mm-	
10	DAD		B-phase	DV/2 F	
10	FAZ-		ammeter	er RV2.5mm <sup>2</sup>	
10	DA2		C-phase		
19	FA3+		ammeter RV2.5mm <sup>2</sup>		
20	DAO		C-phase		
20	FA3-		ammeter	RV2.5mm <sup>2</sup>	

Description Cable

Pin Mark

#### Module mounting hole size







### Miniaturized JG secondary module (centralized)





#### Model



#### Function

• Through the rectangular connector connection, the control of the operation loop, the transmission of current and remote signal from the primary mechanism to the DTU, and the input/outlet interval module of the primary and secondary fusion ring network cabinet can realize the power distribution function. By adjusting the installation mode, adapt to the mainstream compact cabinet

#### **Pin definition**

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
1					
2					
3					
4					
5					
6					
7					
8					
9	KM+	48V power +	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	Decentralized: N/A
10	KM–	48V power -	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	Decentralized: N/A
11	KHZ	Remote control closing output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	
12	KFZ	Remote control opening output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	Relay control output
13	КСОМ	Remote control com output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	
14	DHZ	Protective control closing output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	
15	DFZ	Protective control opening output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	Relay control output
16	DCOM	Protective control com output	RVVP1.5mm <sup>2</sup>	RV1.5mm <sup>2</sup>	

Up-line rectangular connector 32-pin definition (DTU)

			~ • • • •	~	
Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
17	YXCOM	Remote communication com	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
18	GKW	Main switch position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	Remote communication positive power (+24V)
19	DKW	Grounding switch position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
20	KZHLBJ	Warning of control citcuit	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
21	WCN	Unstored energy position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
22	YF	Remote/Local	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
23	HW	Closing position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
24	FW	Opening position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
25	la+	A-phase current +	RVVP2.5mm	RV2.5mm <sup>2</sup>	
26	la–	A-phase current -	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
27	lb+	B-phase current +	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
28	lb–	B-phase current -	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
29	lc+	C-phase current +	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
30	lc–	C-phase current -	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
31	I0+	Zero sequence current +	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
32	10-	Zero sequence current -	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
33	GND	Grounding		RV2.5mm <sup>2</sup>	

#### Down-line rectangular connnector 32-pin definition (connect to organ and CT)

Pin	Mark	Description	Cable	Note
1	HW1–	Closing position +	RV1.5mm <sup>2</sup>	For closing indicator lamp
2	FW1+	Opening position +	RV1.5mm <sup>2</sup>	For opening indicator lamp
3	Y3com	Com	RV1.5mm <sup>2</sup>	For indicator com
4	DQYBS	Low pressure lock	RV1.5mm <sup>2</sup>	For operating circuit
5	DQYBS	Low pressure lock	RV1.5mm <sup>2</sup>	For operating circuit
6	HW2+	Closing positon +	RV1.5mm <sup>2</sup>	For opening circuit
7	HW2–	Closing positon -	RV1.5mm <sup>2</sup>	For opening circuit
8	FW2+	Opening position +	RV1.5mm <sup>2</sup>	For closing circuit
9	FW2–	Opening position -	RV1.5mm <sup>2</sup>	For closing circuit
10	HZ+	Closing	RV1.5mm <sup>2</sup>	
11	FZ+	Opening	RV1.5mm <sup>2</sup>	
12	HFZ-	Com for closing and opening	RV1.5mm <sup>2</sup>	
13	CN+	Stored energy	RV1.5mm <sup>2</sup>	
14	CN-	Stored energy	RV1.5mm <sup>2</sup>	
15		Standby		
16	Ycom	Remote communication com	RV1.5mm <sup>2</sup>	DC24V+
17	HW3	Closing positon	RV1.5mm <sup>2</sup>	

Pin	Mark	Description	Cable	Note
18	FW3	Opening position	RV1.5mm <sup>2</sup>	
19	GKW	Main switch position	RV1.5mm <sup>2</sup>	
20	DKW	Grounding switch position	RV1.5mm <sup>2</sup>	
21	WCN	Unstored energy position	RV1.5mm <sup>2</sup>	
22	DQYBJ	Warning of control citcuit	RV1.5mm <sup>2</sup>	
23		Standby		
24		Standby		
25	la+	A-phase current +	RV2.5mm	
26	la-	A-phase current -	RV2.5mm <sup>2</sup>	
27	lb+	B-phase current +	RV2.5mm <sup>2</sup>	
28	lb–	B-phase current -	RV2.5mm <sup>2</sup>	
29	lc+	C-phase current +	RV2.5mm <sup>2</sup>	
30	lc–	C-phase current -	RV2.5mm <sup>2</sup>	
31	10+	Zero sequence current	+ RV2.5mm <sup>2</sup>	
32	10-	Zero sequence current	RV2.5mm <sup>2</sup>	
33	GND	Grounding	RV2.5mm <sup>2</sup>	



Pin	Mark	Des	cription	Cable	Note
1			-		
2			-		
3	KM+	KM+ KM+	48V+	RV1.5mm <sup>2</sup>	
4	KM–	KM– KM–	- 48V-	RV1.5mm <sup>2</sup>	
5	KM+	KM+ KM+	48V+	RV1.5mm <sup>2</sup>	
6	KM–	KM– KM–	48V-	RV1.5mm <sup>2</sup>	
7			_		
8			-		
9			-		
10					

Pin	Mark	Description	Cable	Note
11				
12				
13				
14				
15	PA1+	A-phase ammeter	RV2.5mm <sup>2</sup>	
16	PA1–	A-phase ammeter	RV2.5mm <sup>2</sup>	
17	PA2+	B-phase ammeter	RV2.5mm <sup>2</sup>	
18	PA2-	B-phase ammeter	RV2.5mm <sup>2</sup>	
19	PA3+	C-phase ammeter	RV2.5mm <sup>2</sup>	
20	PA3-	C-phase ammeter	RV2.5mm <sup>2</sup>	

### Module mounting hole size













#### **Technical highlight**

Through continuous customer advice, and under the guidance of experts in the field of ring cabinets and distribution terminals, we have optimized the design and process of the module. The technical highlights of the second generation of spacer secondary modules are as follows:

1, CT circuit, switch circuit, the total power supply circuit using bare copper tin process to improve the current carrying capacity, and by spraying three anti-paint to improve its sealing and prolong the service life;

2, optimize the current carrying and breaking capacity of the relay to avoid the failure of the switching relay or anti-jump relay caused by the fault of the operating mechanism;

3, optimize the layout of the circuit board, the key parts of the circuit board slotting process to ensure that its insulation strength, impact voltage resistance to meet and higher than the national standards, in high altitude areas can be assured of use;

4. Increase the 20-core terminal compartment, change the 14P terminal to the spring terminal fixed with ear screws, and change the 6P current terminal to the welded plate spring terminal, which not only eliminates the risk of terminal falling off, but also significantly improves the on-site wiring efficiency;

5, small size, up and down, left and right installation methods, perfect match mainstream cabinet and compact cabinet.



# Miniaturized JG secondary module (decentralized)





#### Model



#### Function

• Through the rectangular connector connection, the control of the operation loop, the transmission of current and remote signal from the primary mechanism to the DTU, and the input/outlet interval module of the primary and secondary fusion ring network cabinet can realize the power distribution function. By adjusting the installation mode, adapt to the mainstream compact cabinet

#### **Pin definition**

Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
1	Ua	A-phase voltage + (Measurement/metrology)	RV1.5mm <sup>2</sup>		Centralized: N/A
2	Ub	B-phase voltage + (Measurement/ metrology)	RV1.5mm <sup>2</sup>		Centralized: N/A
3	Uc	C-phase voltage + (Measurement/ metrology)	RV1.5mm <sup>2</sup>		Centralized: N/A
4	Un	Phase voltage com pin	RV1.5mm <sup>2</sup>		Centralized: N/A
5	U0+	Zero sequence voltage	RV1.5mm <sup>2</sup>		Centralized: N/A
6	U0-	Zero sequence voltage com	RV1.5mm <sup>2</sup>		Centralized: N/A
7	PW+	24V power +	RV1.5mm <sup>2</sup>		Centralized: N/A
8	PW-	24V power -	RV1.5mm <sup>2</sup>		Centralized: N/A
9	PPS+	pulse per second +	RV1.0mm <sup>2</sup>		Differential pulse
10	PPS-	pulse per second -	RV1.0mm <sup>2</sup>		Differential pulse
11	KHZ	Remote control closing output	RV1.5mm <sup>2</sup>		
12	KFZ	Remote control opening output	RV1.5mm <sup>2</sup>		Relay control output
13	КСОМ	Remote control com	RV1.5mm <sup>2</sup>		
14	DHZ	Protective control closing output	RV1.5mm <sup>2</sup>		
15	DFZ	Protective control opening outpu	t RV1.5mm <sup>2</sup>		Relay control output
16	DCOM	Protective control com	RV1.5mm <sup>2</sup>		

Up-line rectangular connector 32-pin definition (DTU)



Pin	Mark	Description	Cable(connector)	Cable (socket)	Note
17	YXCOM	Remote communication com	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
18	GKW	Main switch position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	Remote communication positive power (+24V)
19	DKW	Grounding switch position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
20	KZHLBJ	Warning of control citcuit	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
21	WCN	Unstored energy position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
22	YF	Remote/Local	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
23	HW	Closing position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
24	FW	Opening position	RVVP1.0mm <sup>2</sup>	RV1.0mm <sup>2</sup>	
25	la+	A-phase current +	RVVP2.5mm	RV2.5mm <sup>2</sup>	
26	la–	A-phase current -	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
27	lb+	B-phase current +	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
28	lb–	B-phase current -	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
29	lc+	C-phase current +	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
30	lc–	C-phase current -	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
31	10+	Zero sequence current +	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
32	10-	Zero sequence current -	RVVP2.5mm <sup>2</sup>	RV2.5mm <sup>2</sup>	
33	GND	Grounding		RV2.5mm <sup>2</sup>	

Down-line rectangular connnector 32-pin definition (connect to organ and CT)

Pin	Mark	Description	Cable	Note
1	HW1–	Closing position +	RV1.5mm <sup>2</sup>	For closing indicator lamp
2	FW1+	Opening position +	RV1.5mm <sup>2</sup>	For opening indicator lamp
3	Y3com	Com	RV1.5mm <sup>2</sup>	For indicator com
4	DQYBS	Low pressure lock	RV1.5mm <sup>2</sup>	For operating circuit
5	DQYBS	Low pressure lock	RV1.5mm <sup>2</sup>	For operating circuit
6	HW2+	Closing positon +	RV1.5mm <sup>2</sup>	For opening circuit
7	HW2–	Closing positon -	RV1.5mm <sup>2</sup>	For opening circuit
8	FW2+	Opening position +	RV1.5mm <sup>2</sup>	For closing circuit
9	FW2–	Opening position -	RV1.5mm <sup>2</sup>	For closing circuit
10	HZ+	Closing	RV1.5mm <sup>2</sup>	
11	FZ+	Opening	RV1.5mm <sup>2</sup>	
12	HFZ-	Com for closing and opening	RV1.5mm <sup>2</sup>	
13	CN+	Stored energy	RV1.5mm <sup>2</sup>	
14	CN-	Stored energy	RV1.5mm <sup>2</sup>	
15		Standby		
16	Ycom	Remote communication com	RV1.5mm <sup>2</sup>	DC24V+
17	HW3	Closing positon	RV1.5mm <sup>2</sup>	

Pin	Mark	Description	Cable	Note
18	FW3	Opening position	RV1.5mm <sup>2</sup>	
19	GKW	Main switch position	RV1.5mm <sup>2</sup>	
20	DKW	Grounding switch position	RV1.5mm <sup>2</sup>	
21	WCN	Unstored energy position	RV1.5mm <sup>2</sup>	
22	DQYBJ	Warning of control citcuit	RV1.5mm <sup>2</sup>	
23		Standby		
24		Standby		
25	la+	A-phase current +	RV2.5mm	
26	la–	A-phase current -	RV2.5mm <sup>2</sup>	
27	lb+	B-phase current +	RV2.5mm <sup>2</sup>	
28	lb–	B-phase current -	RV2.5mm <sup>2</sup>	
29	lc+	C-phase current +	RV2.5mm <sup>2</sup>	
30	lc–	C-phase current -	RV2.5mm <sup>2</sup>	
31	10+	Zero sequence current	+ RV2.5mm <sup>2</sup>	
32	10-	Zero sequence current	<sup>-</sup> RV2.5mm <sup>2</sup>	
33	GND	Grounding	RV2.5mm <sup>2</sup>	



#### Phoenix terminal 20-pin definiton

Pin	Mark	Des	cription	Cable	Note
1 P		PW+	2474	RV1.5mm <sup>2</sup>	
	PVV+	PW+	24V+		
2	P\M	PW –	24V-	RV1.5mm <sup>2</sup>	
	F VV —	PW –			
3	KM+	KM+	48V+	RV1.5mm <sup>2</sup>	
		KM+			
4	KM-	KM-	48V-	RV1.5mm <sup>2</sup>	
		KM–			
5	KM+	KM+	48V+	RV1.5mm <sup>2</sup>	
	T NIVIT	KM+			
6	KM–	KM-	48V-	RV1.5mm <sup>2</sup>	
		KM–			
7	Ua	Ua	A-phase voltage	RV1.5mm <sup>2</sup>	
		Ua			
8	Ub	Ub	B-phase voltage	RV1.5mm <sup>2</sup>	
		Ub			
9	Uc	Uc	C-phase voltage	RV1.5mm <sup>2</sup>	
		Uc			
10	Un	Un	Com	RV1.5mm <sup>2</sup>	
		Un	Com		

Pin	Mark	Description		Cable	Note
11	U0	U0	Zero sequence	RV1.5mm <sup>2</sup>	
		00	voltage		
12	U0n	U0n	Zero sequence voltage	RV1.5mm <sup>2</sup>	
		U0n			
10		PPS+	pulse per second		
13	FF3+	PPS+			
- 4	DDC	PPS-			
14	PP5-	PPS-	puise per second		
45	5 544	A-phase	A-phase		
15   PA1+	PAI+		ammeter RV2.5mm <sup>2</sup>		
10	DA1		A-phase	-	
10	PAI-		ammeter	RV2.5mm <sup>2</sup>	
17	DAG		B-phase	-	
	PA2+		ammeter	RV2.5mm <sup>2</sup>	
10	DAG		B-phase	RV2.5mm <sup>2</sup>	
18 F	PA2-		ammeter		
10	DAG		C-phase		
19	PA3+		ammeter	RV2.5mm <sup>2</sup>	
	544		C-phase		
20	PA3-		ammeter	RV2.5mm <sup>2</sup>	

#### Module mounting hole size









#### **Technical highlight**

Through continuous customer advice, and under the guidance of experts in the field of ring cabinets and distribution terminals, we have optimized the design and process of the module. The technical highlights of the second generation of spacer secondary modules are as follows:

1, CT circuit, switch circuit, the total power supply circuit using bare copper tin process to improve the current carrying capacity, and by spraying three anti-paint to improve its sealing and prolong the service life;

2, optimize the current carrying and breaking capacity of the relay to avoid the failure of the switching relay or anti-jump relay caused by the fault of the operating mechanism;

3, optimize the layout of the circuit board, the key parts of the circuit board slotting process to ensure that its insulation strength, impact voltage resistance to meet and higher than the national standards, in high altitude areas can be assured of use;

4. Increase the 20-core terminal compartment, change the 14P terminal to the spring terminal fixed with ear screws, and change the 6P current terminal to the welded plate spring terminal, which not only eliminates the risk of terminal falling off, but also significantly improves the on-site wiring efficiency;

5, small size, up and down, left and right installation methods, perfect match mainstream cabinet and compact cabinet.

#### **Standard line length schedule**

Connector details	Recommended length of exposrd thread	Error proofing of color	
Up-line 10-pin connecter (standard)	0.85m	#1 hl-sh	
Wire (to voltmeter) 0.25m		#1 black	
Up-line 32-pin short-circuit socket (standard) 0.4m		#1 black	
Down-line 10-pin connecter (optional)	2.5m (to voltage transformer)	N/A	
16-pin double-end connecter (standardl)	0.5m	N/A	
Up-line 32-pin short-circuit connecter (standard)	0.65m	#1-6 black/white/red/green/yellow/blue	
Down-line 32-pin connecter (optional)	1.5m (voltage line)/2.5m (current line)	N/A	
Up-line 32-pin short-circuit socket (standard)	0.25m	#1-6 black/white/red/green/yellow/blue	
Down-line 32-pin connecter (optional)	1.5m (voltage line)/2.5m (current line)	N/A	
Up-line 32-pin short-circuit connecter (standard)	0.65m	#1-6 black/white/red/green/yellow/blue	
Down-line 32-pin connecter (optional)	1.5m (voltage line)/2.5m (current line)	N/A	
Up-line 32-pin short-circuit socket (standard)	0.3m	#1-6 black/white/red/green/yellow/blue	
Down-line 32-pin connecter (optional)	1.5m (voltage line)/2.5m (current line)	N/A	
	Connector details     Up-line 10-pin connecter (standard)     Wire (to voltmeter)     Up-line 32-pin short-circuit socket (standard)     Down-line 10-pin connecter (optional)     16-pin double-end connecter (standardl)     Up-line 32-pin short-circuit connecter (standard)     Down-line 32-pin connecter (optional)     Up-line 32-pin short-circuit socket (standard)     Down-line 32-pin connecter (optional)     Up-line 32-pin short-circuit connecter (standard)     Down-line 32-pin connecter (optional)     Up-line 32-pin short-circuit socket (standard)     Down-line 32-pin connecter (optional)     Up-line 32-pin short-circuit socket (standard)     Down-line 32-pin connecter (optional)     Up-line 32-pin short-circuit socket (standard)     Down-line 32-pin connecter (optional)	Connector detailsRecommended length of exposed threadUp-line 10-pin connecter (standard)0.85mWire (to voltmeter)0.25mUp-line 32-pin short-circuit socket (standard)0.4mDown-line 10-pin connecter (optional)2.5m (to voltage transformer)16-pin double-end connecter (standardl)0.5mUp-line 32-pin short-circuit connecter (standard)0.65mDown-line 32-pin connecter (optional)1.5m (voltage line)/2.5m (current line)Up-line 32-pin short-circuit socket (standard)0.25mDown-line 32-pin connecter (optional)1.5m (voltage line)/2.5m (current line)Up-line 32-pin short-circuit connecter (standard)0.65mDown-line 32-pin short-circuit socket (standard)0.3mDown-line 32-pin connecter (optional)1.5m (voltage line)/2.5m (current line)Up-line 32-pin short-circuit socket (standard)0.3mDown-line 32-pin connecter (optional)1.5m (voltage line)/2.5m (current line)	

Main products:

◆AD11 series signal lamp, tower lamp

◆CJK22 series signal lamp, button

- ◆UK series terminal connector
- ◆CJ series relay
- ◆Construction machinery lamp, switch, socket
- ◆PCM series integrated module



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