

AOYI®

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AOYI® 奥仪电器



AOYI ELECTRIC PRODUCTS CATALOGUE

产品选型/手册

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HUANGSHAN AOYI ELECTRIC CO.,LTD.

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黄山奥仪电器有限公司
HUANGSHAN AOYI ELECTRIC CO.,LTD.



Brief introduction

公司简介

上海奥仪电器有限公司和黄山奥仪电器有限公司有着30多年的生产历史。总公司坐落于安徽省黄山市歙县经济开发区，建筑面积15000平方米。是一家专注于工业自动化领域，集研发、制造、销售为一体的创新型国家级高新技术、省市专精特新企业。公司秉承“快速高效的技术沟通、成熟完美的应用方案、高性价比的工控产品、诚实守信的全程服务”发展理念。公司先后取得了“ISO9001质量体系认证”、“CCC认证”、“CE认证”等多项资质。

我司专业生产SSR 固态继电器、SCR 电力调整器、数显及指针式电流电压表、智能温控仪表、可控硅电压调整器等。其产品应用领域广泛，可应用于塑料机械、鞋机、箱包机、吹瓶机、工业钢化炉设备、纺织机械、干燥机设备、除湿机设备、食品机设备、环境监测、热处理设备、工业自动化等设备。产品远销台湾、东南亚及欧美等国家和全国各地，深受广大客户的好评。

我们在不断地开拓创新中积累了众多产品应用案例，期待与您分享。公司全体员工积极进取，努力拼搏，以高质量的产品和优质的服务欢迎国内外各界朋友的光临，衷心期望成为您可信可靠的合作伙伴，共创美好明天。

Shanghai Aoyi Electrical Appliance Co., Ltd. and Mount Huangshan Aoyi Electrical Appliance Co., Ltd. have a production history of more than 30 years. The head office is located in Shexian Economic Development Zone, Mount Huangshan City, Anhui Province, with a construction area of 15000 square meters. It is an innovative national high-tech, provincial and municipal specialized and new enterprise that focuses on the field of industrial automation, integrating research and development, manufacturing, and sales. The company adheres to the development philosophy of "fast and efficient technical communication, mature and perfect application solutions, cost-effective industrial control products, and honest and trustworthy full-service". The company has successively obtained multiple qualifications such as "ISO9001 Quality System Certification", "CCC Certification", "CE Certification", etc.

Our company specializes in producing SSR solid-state relays, SCR power regulators, digital and pointer current and voltage meters, intelligent temperature control instruments, thyristor voltage regulators, etc. Its products have a wide range of applications, including plastic machinery, shoe machines, luggage and bag machines, bottle blowing machines, industrial tempering furnace equipment, textile machinery, drying equipment, dehumidifier equipment, food machine equipment, environmental monitoring, heat treatment equipment, industrial automation and other equipment. The products are exported to countries such as Taiwan, Southeast Asia, Europe and America, as well as various parts of the country, and are highly praised by customers.

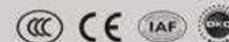
We have accumulated numerous product application cases through continuous exploration and innovation, and look forward to sharing them with you. All employees of the company are proactive and hardworking, welcoming friends from all walks of life at home and abroad with high-quality products and services. We sincerely hope to become your trusted and reliable partner and create a better tomorrow together.



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一、概述 Summary

固态继电器(Solid State Relay)简称为SSR。它是一种全部由固体电子元件组成的新型的无触点开关器件。它利用电子元件中的大功率三极管、功率场效应管、单向可控硅和双向可控硅及模块等器件的开关特性,可达到无触点、无火花的接通和断开电路。它又称为无触点开关。SSR一般为四端有源器件,其中两个控制端和两个输出端,输入、输出端可靠隔离。当输入端加控制信号时,输出端就进行开或关转换。

The solid state relay is usually called SSR for short. It is a new type of non-contact switching device completely composing of solid electronic elements, it adopts the switching characteristics of high power audion, power field effect tube, one-way and two-way controllable silicon and module to make and break the circuit without contact or spark, it is also called non-contact switch. SSR is usually a four-terminal active device including two control terminals, input and output terminals, and input and output terminals own reliable isolation. When control signal is connected with input terminal, the output terminal will switch over for on or off.

二、固态继电器的运用 Application of Solid State Relays

SSR系列固态继电器采用阻燃工程塑料外壳,环氧树脂灌封,螺纹引出端子接线,具有结构强度高,耐冲击,抗震动性强,输入端驱动电流小,可方便与计算机终端和数字控制电路接口,广泛应用于石油化工仪器设备、制药机械、食品机械、包装机械、玻璃机械、线缆机械、纺织机械、塑料机械、数控机床娱乐设施等自动化控制领域。

The SSR series solid-state relay adopts a flame-retardant engineering plastic shell, epoxy resin encapsulation, and threaded terminal connection. It has high structural strength, impact resistance, strong vibration resistance, low input drive current, and can be easily connected to computer terminals and digital control circuits. It is widely used in automation control fields such as petrochemical equipment, pharmaceutical machinery, food machinery, packaging machinery, glass machinery, cable machinery, textile machinery, plastic machinery, CNC machine tools, entertainment facilities, etc.

三、固态继电器的命名 Denomination of Solid State Relay



四、过零型与随机型SSR的区别 The Difference Between Zero Crossing SSR and Random SSR

交流固态继电器按开关方式分有电压过零型(简称过零型)和随机型(简称随机型)。

当输入端施加有效的控制信号时,随机型SSR输出端立即导通(速度为微秒级)。而过零型SSR则要等负载电压过零区域时才开启导通。当输入端撤消控制信号后,过零型和随机型SSR均在小于维持电流时关断。虽然过零型SSR有可能造成最大半个周期的延时,但却减少了对负载的冲击和产生的射频干扰,成为理想的开关器件,在“单刀单掷”的开关场合中应用最为广泛。随机型SSR的特点是反应速度快,它可以控制移相触发电路冲达到方便地改变交流电网电压,从而应用于精确地调温、调光等阻性负载及部分感性负载场合。

AC solid-state relays are divided into voltage zero crossing conduction type (referred to as zero crossing type) and random conduction type (referred to as random type) according to their switching modes.

When an effective control signal is applied to the input terminal, the output terminal of the random type SSR immediately conducts (at a speed of microseconds), while the zero crossing type SSR only turns on when the load voltage crosses the zero region. When the input terminal cancels the control signal, both zero crossing type and random type SSRs turn off when the current is less than the holding current. Although zero-crossing SSRs may cause a maximum delay of half a cycle, they reduce the impact on the load and the RF interference generated, making them an ideal switching device and widely used in "single pole single throw" switching situations. The characteristic of random SSR is its fast response speed. It can control the phase-shift trigger pulse to conveniently change the AC grid voltage, making it suitable for precise temperature and dimming of resistive loads and some inductive loads.

五、双向可控硅输出的普通型与单向可控硅反并联输出的增强型的区别 The Difference Between The Ordinary Type of Bidirectional Thyristor Output and The Enhanced Type of Unidirectional Thyristor Anti Parallel Output

固态继电器按输出开关元件分有双向可控硅输出型(普通型)和单向可控硅反并联输出型(增强型)。

在感性负载的场合,当SSR由通态关断时,由于电流、电压的相位不一致,将产生一个很大的电压上升率dv/dt(换向dv/dt)加在双向可控硅两端,如此值超过双向可控硅的换向dv/dt指标(典型值为10V/μs),则将导致延时关断甚至失败。而单相可控硅为单极性工作状态,只受静态电压上升率dv/dt(典型值为100V/μs)影响,由两只单向可控硅反并联构成的增强型固态继电器比由一只双向可控硅构成的普通型固态继电器的换向dv/dt有了很大提高,因此在感性或容性负载场合宜选取增强型固态继电器。

Solid state relays are divided into bidirectional thyristor output type (ordinary type) and unidirectional thyristor anti parallel-output type (enhanced type) according to the output switching elements.

In the case of inductive loads, when SSR is turned off from the on state, due to the phase difference between current and voltage, a large voltage rise rate dv/dt (commutation dv/dt) will be generated at both ends of the bidirectional thyristor. If the value exceeds the commutation dv/dt direction index of the bidirectional thyristor (typical value is 10V/μs), it will cause delayed turn off or even failure. The single-phase thyristor operates in a unipolar state and is only affected by the static voltage rise rate dv/dt (typical value is 100V/μs). The enhanced solid-state relay composed of two unidirectional thyristors in anti parallel has a greatly improved commutation dv/dt compared to a conventional solid-state relay composed of one bidirectional thyristor. Therefore, it is appropriate to choose an enhanced solid-state relay in inductive or capacitive load fields.

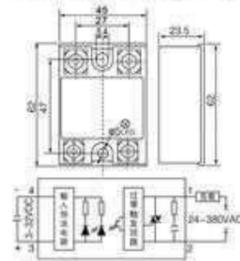
六、固态继电器使用注意事项 Operation Notice

- 1、 固态继电器型号中的电流值为内部可控硅所能承受的最大电流有效值。
过流或负载短路是造成SSR内部输出可控硅永久性损坏的最主要原因。快速熔断器和空气开关是过流保护方法之一,小容量SSR也可选用保险丝;许多负载在接通瞬间会产生很大的浪涌电流,由于散热不及,浪涌电流与过流一样也是造成SSR内部输出可控硅损坏的主要原因之一。因此选取固态继电器时,保证一定的电流余量是极其重要的。
▲ 阻性负载时,选取SSR的电流等级大于2倍的负载额定电流。
▲ 负载为交流电动机时,选取SSR的电流等级须大于6-7倍的电动机额定电流。
▲ 交流电磁铁、继电器负载时,选取SSR的电流等级须大于4倍负载额定电流。
▲ 变压器负载时,选取SSR的电流等级须大于5倍变压器初级额定电流。
▲ 电力补偿电容器类负载时,选取SSR的电流等级须大于5倍的负载额定电流。
 - 2、 过压保护措施:过压保护可以采取并联压敏电阻(MOV),MOV面积大小决定吸收功率,MOV的厚度决定保护电压值,一般220V系列SSR可选取471/10D压敏电阻,380V系列SSR可选取681/10D压敏电阻,480V系列SSR的可选取821/10D压敏电阻。
 - 3、 固态继电器在导通时会产生一定的热量,故在固态继电器使用时,应安装散热器使其冷却。在选用散热器时,应考虑到环境温度、通风条件及SSR安装密度等因素,实际使用负载电流较大时,应安装风机进行冷却。
固态继电器与散热器安装面之间须涂一层导热硅脂。
1. The current value in the solid-state relay model is the maximum effective current that the internal thyristor can withstand.
Overcurrent or load short circuit is the main cause of permanent damage to the internal output thyristor of SSR. Quick fuses and air switches are one of the over current protection methods, and fuses can also be used for small capacity SSR. Many loads generate large surge currents at the moment of connection. Due to insufficient heat dissipation, surge currents, like overcurrent, are also one of the main causes of damage to the internal output thyristor of SSR. Therefore, it is extremely important to ensure a certain current margin when selecting solid-state relays.
▲ When using resistive loads, select a load rated current with SSR current level greater than twice the rated current.
▲ When the load is an AC motor, the selected SSR current level must be greater than 6-7 times the rated current of the motor.
▲ When using AC electromagnets and relay loads, the current level of SSR selected must be greater than 4 times the rated current of the load.
▲ When the transformer is loaded, the current level selected for SSR must be greater than 5 times the primary rated current of the transformer.
▲ When using power compensation capacitor loads, the current level of SSR selected must be greater than 5 times the rated current of the load.
 2. Overvoltage protection measures: Parallel varistors (MOV) can be used for overvoltage protection. The size of the MOV area determines the absorbed power, and the thickness of the MOV determines the protection voltage value. Generally, 471/10d varistors can be selected for 220V series SSR, 681/10d varistors can be selected for 380V series SSR, and 821/10d varistors can be selected for 480V series SSR.
 3. Solid state relays generate a certain amount of heat when conducting, so a heat sink should be installed to cool them during use. When selecting a radiator, factors such as ambient temperature, ventilation conditions, and SSR installation density should be taken into account. When the actual load current is high, a fan should be installed for cooling.
A layer of thermal conductive silicone grease must be applied between the installation surface of the solid-state relay and the radiator.

SSR-40DA



外形及安装尺寸(毫米)
Wiring drawing(mm)



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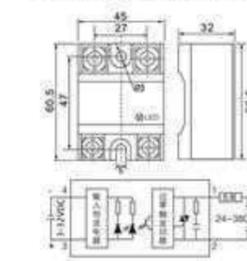
SSR-□DA

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:24-380VAC
控制信号 Control Signal:3-32VDC
控制电流 Control Current:DC6-12mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

ASR-40DA



外形及安装尺寸(毫米)
Wiring drawing(mm)



60.5LX45.0WX32.0H

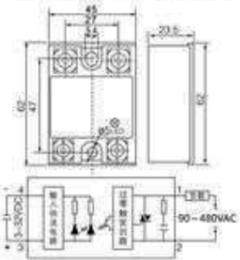
ASR-□DA

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:24-380VAC
控制信号 Control Signal:3-32VDC
控制电流 Control Current:DC6-12mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:85g

SSR-40DA-H



外形及安装尺寸(毫米)
Wiring drawing(mm)



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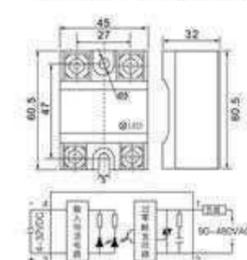
SSR-□DA-H

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:90-480VAC
控制信号 Control Signal:3-32VDC
控制电流 Control Current:DC6-12mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

ASR-40DA-H



外形及安装尺寸(毫米)
Wiring drawing(mm)



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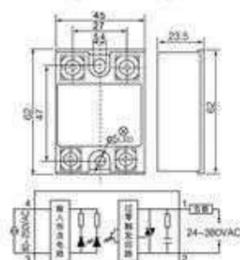
ASR-□DA-H

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:90-480VAC
控制信号 Control Signal:3-32VDC
控制电流 Control Current:DC6-12mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:85g

SSR-40AA



外形及安装尺寸(毫米)
Wiring drawing(mm)



62.0LX45.0WX23.5H

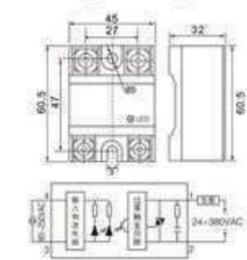
SSR-□AA

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:24-380VAC
控制信号 Control Signal:80-250VAC
控制电流 Control Current:AC≤2mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤6mA
通断时间 On-Off Time:≤10mS
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

ASR-40AA



外形及安装尺寸(毫米)
Wiring drawing(mm)



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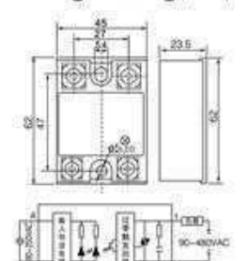
ASR-□AA

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:24-380VAC
控制信号 Control Signal:80-250VAC
控制电流 Control Current:AC≤2mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
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重量 Weight:85g

SSR-40AA-H



外形及安装尺寸(毫米)
Wiring drawing(mm)



62.0LX45.0WX23.5H

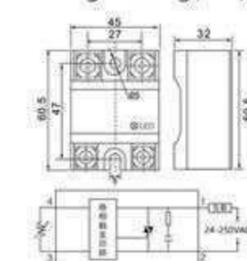
SSR-□AA-H

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:90-480VAC
控制信号 Control Signal:80-250VAC
控制电流 Control Current:AC≤2mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

ASR-40VA



外形及安装尺寸(毫米)
Wiring drawing(mm)



60.5LX45.0WX32.0H

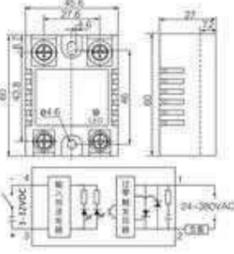
ASR-□VA

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:24-250VAC
控制方式 Control Mode:VR:500KΩ/220VAC
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:85g

ZSR-40DA



外形及安装尺寸(毫米)
Wiring drawing(mm)



60.0LX45.6WX27.0H

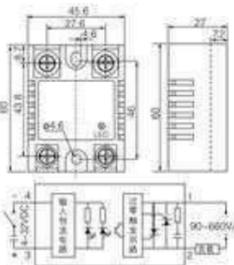
ZSR-□DA

负载电流 Load Current:25A,40A,60A,75A,90A,120A
负载电压 Load Voltage:24-380VAC
控制信号 Control Signal:3-32VDC
控制电流 Control Current:DC6-12mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

ZSR-40DA-H



外形及安装尺寸(毫米)
Wiring drawing(mm)



60.0LX45.6WX27.0H

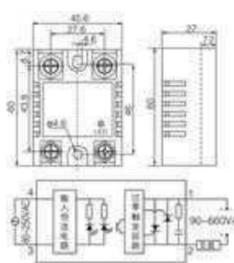
ZSR-□DA-H

负载电流 Load Current:25A,40A,60A,75A,90A,120A
负载电压 Load Voltage:90-660VAC
控制信号 Control Signal:4-32VDC
控制电流 Control Current:DC6-12mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:无
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

ZSR-40AA-H



外形及安装尺寸(毫米)
Wiring drawing(mm)



60.0LX45.6WX27.0H

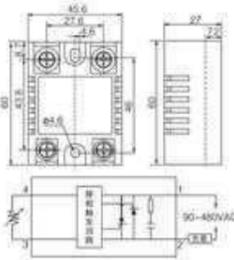
ZSR-□AA-H

负载电流 Load Current:25A,40A,60A,75A,90A,120A
负载电压 Load Voltage:90-660VAC
控制信号 Control Signal:80-250VAC
控制电流 Control Current:AC≤2mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

ZSR-40VA-H



外形及安装尺寸(毫米)
Wiring drawing(mm)



60.0LX45.6WX27.0H

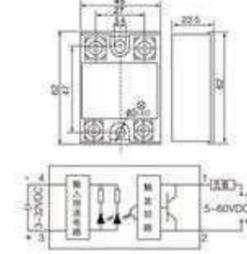
ZSR-□VA-H

负载电流 Load Current:25A,40A,60A,75A,90A,120A
负载电压 Load Voltage:90-480VAC
控制方式 Control Mode:VR:1MΩ/2W
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:无
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

SSR-10DD



外形及安装尺寸(毫米)
Wiring drawing(mm)

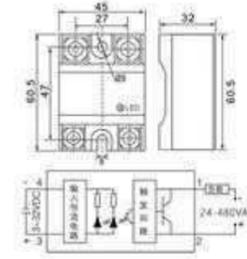


62.0LX45.0WX23.5H

ASR-40DD



外形及安装尺寸(毫米)
Wiring drawing(mm)

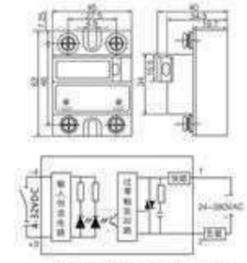


60.5LX45.0WX32.0H

SSR-F-40DA



外形及安装尺寸(毫米)
Wiring drawing(mm)

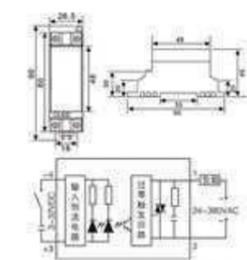


62.0LX45.0WX40.0H

YTSSR-10DA



外形及安装尺寸(毫米)
Wiring drawing(mm)



90.0LX26.5WX45.0H

SSR-□DD

负载电流 Load Current:10A,30A,75A
负载电压 Load Voltage:5-60VDC,5-300VDC
控制信号 Control Signal:3-32VDC
控制电流 Control Current:DC2-15mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
重量 Weight:115g

ASR-□DD

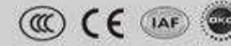
负载电流 Load Current:10A,25A,40A,75A
负载电压 Load Voltage:24-480VAC
控制信号 Control Signal:3-32VDC
控制电流 Control Current:DC2-15mA
通态压降 On Voltage:≤1.0V
断态漏电流 Off Leakage Current:≤2mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
重量 Weight:85g

SSR-F-□DA(内置快熔)

负载电流 Load Current:25A,40A
负载电压 Load Voltage:24-380VAC
控制信号 Control Signal:4-32VDC
控制电流 Control Current:DC6-12mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:85g

YTSSR-□DA

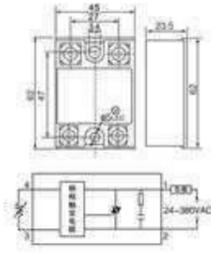
负载电流 Load Current:10A
负载电压 Load Voltage:24-380VAC
控制信号 Control Signal:3-32VDC
控制电流 Control Current:DC6-12mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:65g



SSR-40VA



外形及安装尺寸(毫米)
Wiring drawing(mm)



62.0LX45.0WX23.5H

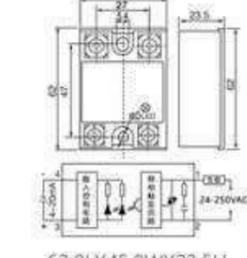
SSR-□VA

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:24-380VAC
控制方式 Control Mode:VR:500KΩ/2W
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20°C ~ +60°C
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

SSR-40LA



外形及安装尺寸(毫米)
Wiring drawing(mm)

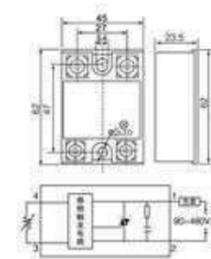


62.0LX45.0WX23.5H

SSR-40VA-H



外形及安装尺寸(毫米)
Wiring drawing(mm)



62.0LX45.0WX23.5H

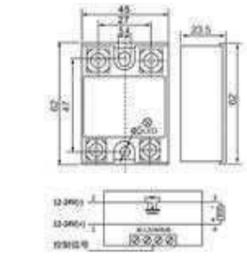
SSR-□VA-H

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:90-480VAC
控制方式 Control Mode:VR:1MΩ/2W
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20°C ~ +60°C
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:无
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

DTS-40A-E



外形及安装尺寸(毫米)
Wiring drawing(mm)



62.0LX45.0WX23.5H

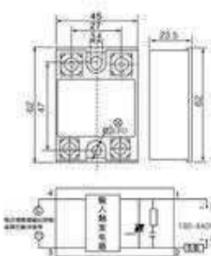
DTS-□A-E

负载电流 Load Current:20A,40A,80A
输入电压 Input Voltage:DC12-24V
输出电压范围 Output Voltage Range:0-输入电压
控制信号 Control Signal:0-5V,4-20mA,VR10K(电位器手动)
通态压降 On Voltage:≤0.3V
断态漏电流 Off Leakage Current:≤4mA
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20°C ~ +60°C
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
重量 Weight:115g

SSR-40DV



外形及安装尺寸(毫米)
Wiring drawing(mm)



62.0LX45.0WX23.5H

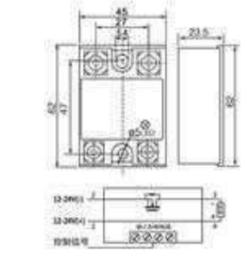
SSR-□DV

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:180-440VAC
控制方式 Control Mode:电压调整器控制
控制电流 Control Current:DC3-25mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20°C ~ +60°C
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

DTS-40A-F



外形及安装尺寸(毫米)
Wiring drawing(mm)



62.0LX45.0WX23.5H

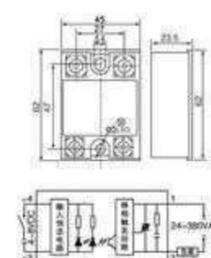
DTS-□A-F

负载电流 Load Current:20A,40A,80A
输入电压 Input Voltage:DC12-24V
输出电压范围 Output Voltage Range:0-输入电压
控制信号 Control Signal:0-10V,4-20mA,VR10K
通态压降 On Voltage:≤0.3V
断态漏电流 Off Leakage Current:≤4mA
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20°C ~ +60°C
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
重量 Weight:115g

SSR-40DA-P



外形及安装尺寸(毫米)
Wiring drawing(mm)



62.0LX45.0WX23.5H

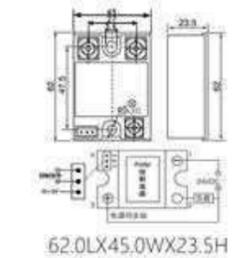
SSR-□DA-P

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:24-380VAC
控制电压 Control Voltage:PWM 4-8VDC
控制电流 Control Current:DC1-11mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20°C ~ +60°C
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:无
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:115g

DTS-40A-24V



外形及安装尺寸(毫米)
Wiring drawing(mm)



62.0LX45.0WX23.5H

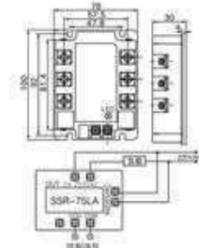
DTS-□A-24V

负载电流 Load Current:10A,25A,40A
负载电压 Load Voltage:DC24V
控制信号 Control Voltage:DC:0-5V,4-20mA
输出电压范围 Output Voltage Range:0-24VDC
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20°C ~ +60°C
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:/
重量 Weight:115g

SCR-40LA(单相有源)



外形及安装尺寸(毫米)
Wiring drawing(mm)



100.0LX76.0WX30.0H

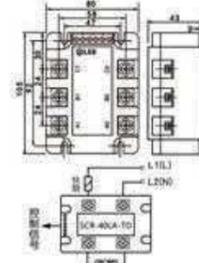
SCR-□LA(单相有源)

负载电流 Load Current:15A,25A,40A,75A,90A
负载电压 Load Voltage:24-250VAC
控制信号 Control Signal:0-5V,0-10V,4-20mA,VR
辅助电源 Auxiliary power supply:175-265VAC
通态压降 On Voltage:≤2V
断态漏电流 Off Leakage Current:≤10mA
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:340g

SCR-40LA-TD



外形及安装尺寸(毫米)
Wiring drawing(mm)



105.0LX80.0WX43.0H

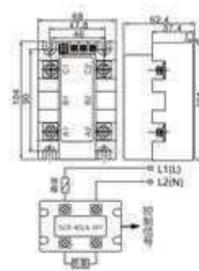
SCR-□LA-TD

负载电流 Load Current:10A,25A,40A,60A,75A,90A
负载电压 Load Voltage:180-430VAC
输出电压范围 Output voltage range:0-输入电压
控制信号 Control Signal:0-5V,0-10V,4-20mA,VR
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤10mA
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:425g

SCR-40LA-WY(稳压型)



外形及安装尺寸(毫米)
Wiring drawing(mm)



104.0LX68.0WX37.4H

SCR-□LA-WY(稳压型)

负载电流 Load Current:25A,40A,75A,90A,120A
负载电压 Load Voltage:180-440VAC
控制信号 Control Signal:DC:0-5V,4-20mA
通态压降 On Voltage:≤2V
断态漏电流 Off Leakage Current:≤10mA
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:340g

SCR-40LA-W



外形及安装尺寸(毫米)
Wiring drawing(mm)



104.0LX68.0WX37.4H

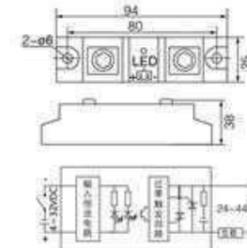
SCR-□LA-W

负载电流 Load Current:40A,60A,80A,100A
负载电压 Load Voltage:90-480VAC
控制信号 Control Signal:4-20mA
输出电压范围 Output voltage range:0-输入电压
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤10mA
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:/
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:475g

GYSSR-120DA(H型)



外形及安装尺寸(毫米)
Wiring drawing(mm)

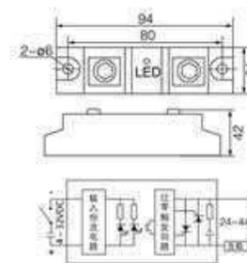


94.0LX25.0WX38.0H

GYSSR-150DA(H型)



外形及安装尺寸(毫米)
Wiring drawing(mm)

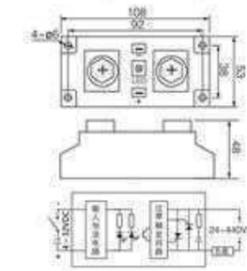


94.0LX34.0WX42.0H

GYSSR-350DA(H型)



外形及安装尺寸(毫米)
Wiring drawing(mm)

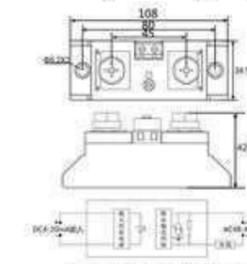


108.0LX53.0WX48.0H

GYSCR-150LA



外形及安装尺寸(毫米)
Wiring drawing(mm)



108.0LX34.5WX42.5H

GYSSR-□DA(H₂)

负载电流 Load Current:60A,80A,100A,120A
负载电压 Load Voltage:24-440VAC
控制信号 Control Signal:4-32VDC
控制电流 Control Current:DC7-32mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介电耐压 Dielectric Strength:≥2500VAC
绝缘电阻 Insulation Resistance:1000MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+75℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:135g

GYSSR-□DA(H₁)

负载电流 Load Current:150A,200A,250A,300A
负载电压 Load Voltage:24-440VAC
控制信号 Control Signal:4-32VDC
控制电流 Control Current:DC7-32mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介电耐压 Dielectric Strength:≥2500VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+75℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:210g

GYSSR-□DA(H₂)

负载电流 Load Current:350A
负载电压 Load Voltage:24-440VAC
控制信号 Control Signal:4-32VDC
控制电流 Control Current:DC7-32mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介电耐压 Dielectric Strength:≥2500VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+75℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:410g

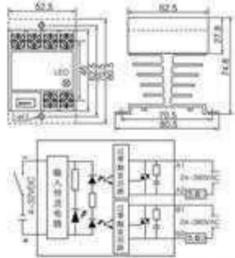
GYSCR-□LA

负载电流 Load Current:80A,120A,150A,200A,250A
负载电压 Load Voltage:48-480VAC
控制信号 Control Single:4-20mA
通态压降 On Voltage:≤2V
断态漏电流 Off Leakage Current:≤4mA
介电耐压 Dielectric Strength:≥2500VAC
绝缘电阻 Insulation Resistance:1000MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+75℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:210g

SSR2-40DA



外形及安装尺寸(毫米)
Wiring drawing(mm)



80.5LX52.5WX74.8H

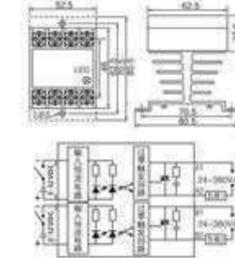
SSR2-□DA(1路控2路)

负载电流 Load Current:10A,15A,25A,40A
负载电压 Load Voltage:24-380VACX2
控制信号 Control Signal:4-32VDC
控制电流 Control Current:DC12-32mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:4mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:225g

SSR2-40DA-2K



外形及安装尺寸(毫米)
Wiring drawing(mm)



80.5LX52.5WX74.8H

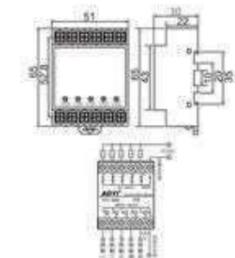
SSR2-□DA-2K(2路独立控制)

负载电流 Load Current:10A,15A,25A,40A
负载电压 Load Voltage:24-380VACX2
控制信号 Control Signal:3-32VDCX2
控制电流 Control Current:DC12-32mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:4mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:225g

ST5-5DD



外形及安装尺寸(毫米)
Wiring drawing(mm)



65.0LX51.0WX30.0H

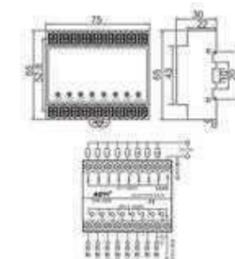
ST5-5DD(5路独立控制)

负载电流 Load Current:5Ax5
负载电压 Load Voltage:24VDC
控制信号 Control Signal:24VDC
控制电流 Control Current:≤2mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:65g

ST8-5DD



外形及安装尺寸(毫米)
Wiring drawing(mm)



65.0LX75.0WX30.0H

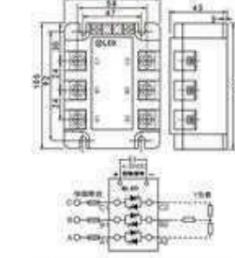
ST8-5DD(8路独立控制)

负载电流 Load Current:5Ax8
负载电压 Load Voltage:24VDC
控制信号 Control Signal:24VDC
控制电流 Control Current:≤2mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤4mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:95g

SCR3-40DA



外形及安装尺寸(毫米)
Wiring drawing(mm)

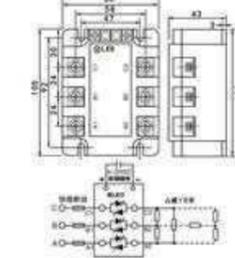


105.0LX80.0WX43.0H

SCR3-40DA-H



外形及安装尺寸(毫米)
Wiring drawing(mm)

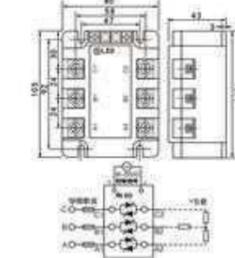


105.0LX80.0WX43.0H

SCR3-40AA



外形及安装尺寸(毫米)
Wiring drawing(mm)

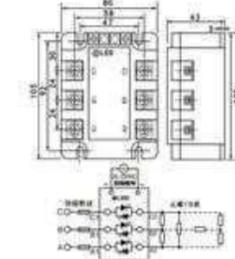


105.0LX80.0WX43.0H

SCR3-40AA-H



外形及安装尺寸(毫米)
Wiring drawing(mm)



105.0LX80.0WX43.0H

SCR3-□DA(增强型)

负载电流 Load Current:25A,40A,60A,75A,90A,120A
负载电压 Load Voltage:24-440VAC
控制信号 Control Signal:4-32VDC
控制电流 Control Current:DC12-32mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤10mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:425g

SCR3-□DA-H(高压增强型)

负载电流 Load Current:25A,40A,60A,75A,90A,120A
负载电压 Load Voltage:90-660VAC
控制信号 Control Voltage:4-32VDC
控制电流 Control Current:DC12-32mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤10mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:425g

SCR3-□AA(增强型)

负载电流 Load Current:25A,40A,60A,75A,90A,120A
负载电压 Load Voltage:24-380VAC
控制电压 Control Voltage:80-250VAC
控制电流 Control Current:AC≤12mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤10mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:425g

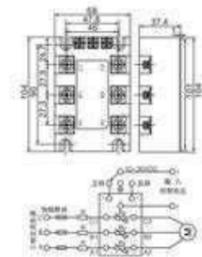
SCR3-□AA-H(高压增强型)

负载电流 Load Current:25A,40A,60A,75A,90A,120A
负载电压 Load Voltage:90-660VAC
控制电压 Control Voltage:80-250VAC
控制电流 Control Current:AC≤12mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤10mA
通断时间 On-Off Time:≤10mS
介质耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流x2 感性电流x6
重量 Weight:425g

TSR3-3KDA-H/ZF



外形及安装尺寸(毫米)
Wiring drawing(mm)



104.0LX68.0WX37.4H

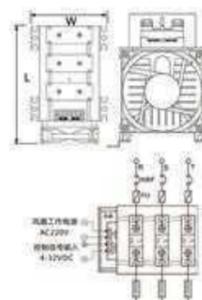
TSR3-□KDA-H/ZF(三相电机正反转模块)

负载功率 Load Power:2KW,3KW
负载电压 Load Voltage:380VAC
控制信号 control signal:10-30VDC
控制电流 Control Current:DC10-30mA
通态压降 On Voltage:≤2V
断态漏电流 Off Leakage Current:≤10mA
通断时间 On-Off Time:正反转转换时间≥300ms
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
重量 Weight:460g

ZHSSR3-200DA-L



外形及安装尺寸(毫米)
Wiring drawing(mm)



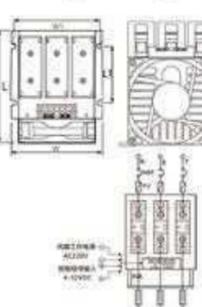
ZHSSR3-□DA-L(三相交流固态组合模块)

负载电流 Load Current:80A,100A,120A,150A,200A,250A,300A,350A
负载电压 Load Voltage:24-440VAC
控制信号 control signal:4-32VDC
控制电流 Control Current:DC20-95mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤10mA
通断时间 On-Off Time:≤10ms
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流×2 感性电流×6

ZHSSR3-200DA-G



外形及安装尺寸(毫米)
Wiring drawing(mm)



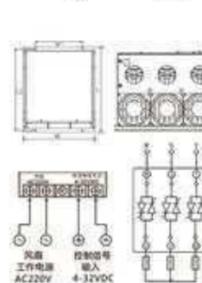
ZHSSR3-□DA-G(三相交流固态组合模块)

负载电流 Load Current:60A,80A,100A,120A,150A,200A,250A,300A
负载电压 Load Voltage:24-440VAC
控制信号 control signal:4-32VDC
控制电流 Control Current:DC20-95mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤10mA
通断时间 On-Off Time:≤10ms
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流×2 感性电流×6

MZHSSR3-400DA-YJ

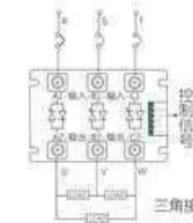


外形及安装尺寸(毫米)
Wiring drawing(mm)

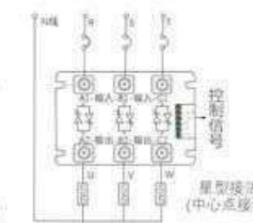


MZHSSR3-□DA-YJ

负载电流 Load Current:300A,400A,500A,600A
负载电压 Load Voltage:24-440VAC
控制信号 control signal:4-32VDC
控制电流 Control Current:DC20-95mA
通态压降 On Voltage:≤1.5V
断态漏电流 Off Leakage Current:≤10mA
通断时间 On-Off Time:≤10ms
介电耐压 Dielectric Strength:≥2000VAC
绝缘电阻 Insulation Resistance:500MΩ/500VDC
环境温度 Ambient Temperature:-20℃~+60℃
安置方式 Mounting instructions:螺栓固定
工作指示 The work instructions:LED
选型 Model selection:阻性电流×2 感性电流×6



三相三线制接线图Wiring



三相四线制接线图Wiring



外形及安装尺寸 Size

一、产品特点 Product Features

- ▲ 数字线性移相控制电路，稳定性好，精度高。
- ▲ 模块化，耐高压，更安全可靠。
- ▲ 小型化，安装、接线等使用方便。
- ▲ 内置热敏元件，具有机体过热保护。
- ▲ 应用领域：各种电加热设备、塑料机械、食品机械、包装机械。
- ▲ Digital linear phase-shifting control circuit, with good stability and high accuracy
- ▲ Modular, high voltage resistant, safer and more reliable.
- ▲ Miniaturization, easy to install, wire, and use.
- ▲ Built in thermal sensor with body overheating protection.
- ▲ Application areas: Various electric heating equipment, plastic machinery, food machinery, packaging machinery.

三、产品性能 Product Features

- ▲ 额定电压：三相AC 380V/(50Hz/60Hz)。
- ▲ 风扇电源：AC220V/(50Hz/60Hz)。
- ▲ 输出方式：移相调压。
- ▲ 自动信号：4-20mA, 0-5VDC, 0-10VDC。
- ▲ 手动信号：10K/2W电位器。
- ▲ 使用环境：温度-20~65℃；湿度<90%RH。
- ▲ Rated voltage: three-phase AC380V/(50Hz/60Hz)。
- ▲ Fan power supply AC220V/(50Hz/60Hz)。
- ▲ Output method: Phase output.
- ▲ Automatic signal 4-20mA, 0-5VDC, 0-10VDC.
- ▲ Manual signal 10K/2W potentiometer.
- ▲ Operating environment temperature: -20~65℃; humidity:< 90%RH.

四、输出方式及波形 Output Wave



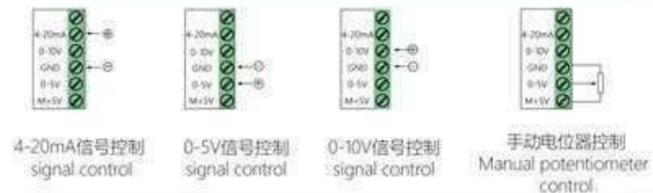
七、注意事项 Warning

- 主电路中采用三相三线或四线输入，无相序要求。请根据负载接线方式和功率大小来正确选型，否则会造成SCR损坏或散热器容易发烫。
- SCR是壁挂式的，系大电流产品，安装时请务必拧紧SCR主输入、输出接线螺丝，以免打火。垂直安装可达最佳散热效果。
- 当散热器达到一定温度时，SCR会报警并停止输出，此时请检查风扇是否工作，环境及温度是否过高。
- 通电过程中，严禁触摸输入、输出端子，以免发生触电危险。如表面落有灰尘及异物请及时清理，避免相间打火，而导致SCR烧毁。
- 请使用在通风良好，不受日光直射或热辐射，无腐蚀性，无可燃性的环境中。若有故障，请找专业人员，严禁私自分拆、改造该产品。
- Three phase three wire or four wire input is used in the main circuit, with no phase sequence requirement. Please select the correct type based on the load wiring method and power, otherwise it may cause the output voltage to lose control or the heat sink to overheat.
- SCR is a wall mounted, high current product. When installing, please be sure to tighten the main input and output wiring screws of SCR to avoid ignition. Vertical installation can achieve the best heat dissipation effect.
- When the radiator reaches a certain temperature, the SCR will sound an alarm and stop outputting. At this time, please check if the fan is working and if the ambient temperature is too high.
- During the power on process, it is strictly prohibited to touch the input and output terminals to avoid the risk of electric shock. If there is dust or foreign matter on the surface, please clean it up promptly to avoid sparking between phases, which may cause SCR to burn out.
- Please use in a well ventilated environment that is not exposed to direct sunlight or thermal radiation, and is non corrosive and non flammable. If there is a mal function, please seek professional assistance. It is strictly prohibited to disassemble or modify the product without authorization.

二、产品规格 Product Model

型号 Type	SCR3-□□LA(三/四线制) SCR3-□□LA-Y(三线制)	SCR3-□□KW-A(三/四线制) SCR3-□□KW-3(三线制)
额定电流 Current	25A 40A 75A 90A 120A	6KW 9KW 12KW 18KW 24KW
外型尺寸 Dimension (mm)	W	100 115 115 100 115
	L	140 140 140 140 140
	H	145 160 135 150 150
安装尺寸(mm) Dimension	WT	90 105 90 105
	L1	80 80 80 80
适应负载功率 Adapt to load power	公式：输入电压×选型电流/2×√3 Formula: input voltage x Selection current/2×√3	

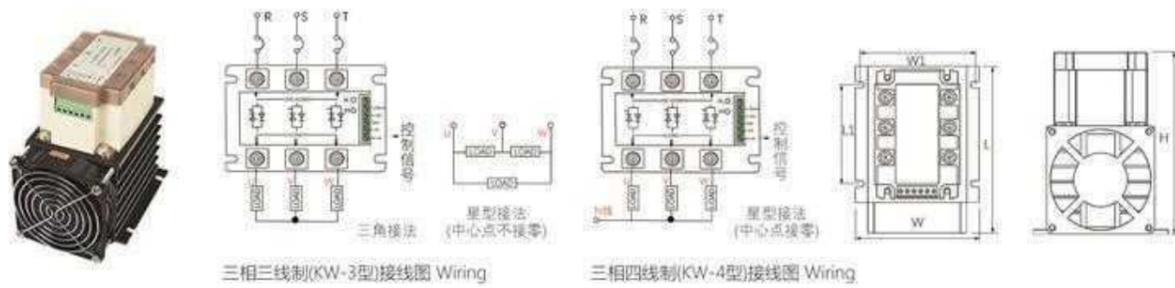
五、三相三线控制信号接线图 Wiring Diagram



六、三相四线控制信号接线图 Wiring Diagram



提示：根据信号功率、电压信号可以多台并联使用，电压信号可以多台串联使用。
Tip: According to the signal power, multiple voltage signals can be used in parallel, and multiple current signals can be used in series.



三相三线制(KW-3型)接线图 Wiring

三相四线制(KW-4型)接线图 Wiring

一、产品特点 Product Features

- ▲ 数字线性移相控制电路，稳定性好，精度高。
- ▲ 模块化，耐高压，更安全可靠。
- ▲ 小型化，安装、接线等使用方便。
- ▲ LED指示工作状态。
- ▲ 应用领域：各种电加热设备、塑料机械、食品机械、包装机械。
- ▲ Digital linear phase-shifting control circuit, with good stability and high accuracy.
- ▲ Modular, high voltage resistant, safer and more reliable.
- ▲ Miniaturization, easy to install, wire, and use.
- ▲ LED indicates the working status.
- ▲ Application areas: various electric heating equipment, plastic machinery, food machinery, packaging machinery.

三、产品性能 Product Features

- ▲ 额定电压：三相380VAC (三相三线) 风扇220VAC。
- ▲ 输出方式：移相调压。
- ▲ 控制信号：4-20mA, 0-5VDC, 0-10VDC或VR。
- ▲ 输入阻抗：4-20mA(240Ω), 0-5VDC(30K), 0-10VDC(12K)。
- ▲ 使用环境：温度-20~65℃, 湿度90%RH以下。
- ▲ Rated voltage: three-phase 380VAC (three-phase three wire) fan 220VAC.
- ▲ Output method: Phase shifting voltage regulation.
- ▲ Control signal: 4-20mA, 0-5VDC, 0-10VDC or VR.
- ▲ Input impedance: 4-20mA (240 Ω), 0-5VDC (30K), 0-10VDC (12K).
- ▲ Usage environment: Temperature: -20~65 °C, humidity: below 90% RH.

六、输出方式及波形 Output Wave



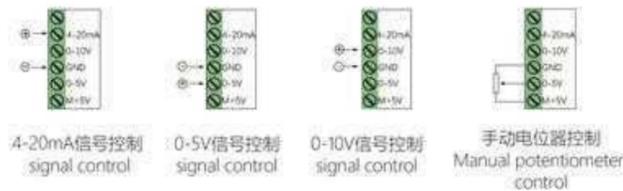
七、注意事项 Warning

- 主电路中采用三相三线或四线输入，无相序要求。请根据负载接线方式和功率大小来正确选型，否则会造成SCR损坏或散热器容易发烫。
- SCR是壁挂式的，系大电流产品，安装时请务必拧紧SCR主输入、输出接线螺丝，以免打火，垂直安装可达最佳散热效果。
- 当散热器达到一定温度时，SCR会报警并停止输出，此时请检查风扇是否工作，环境温度是否过高。
- 通电过程中严禁触摸输入、输出端子，以免发生触电危险。如表面落有灰尘及异物请及时清理，避免相间打火，而导致SCR烧毁。
- 请使用在通风良好，不受日光直射或热辐射，无腐蚀性，无可燃性的环境中。若有故障，请找专业人员；严禁私自分拆、改造该产品。
- The main circuit adopts three-phase three wire or four wire input without phase sequence requirements. Please select the correct type based on the load wiring method and power size, otherwise it may cause SCR damage or heat sink overheating.
- SCR is a wall mounted, high current product. When installing, please be sure to tighten the main input and output wiring screws of SCR to avoid ignition. Vertical installation can achieve the best heat dissipation effect.
- When the radiator reaches a certain temperature, the SCR will sound an alarm and stop outputting. At this time, please check if the fan is working and if the ambient temperature is too high.
- During the power on process, it is strictly prohibited to touch the input and output terminals to avoid the risk of electric shock. If there is dust or foreign matter on the surface, please clean it up in a timely manner to avoid sparking between phases, which may cause SCR to burn out.
- Please use in a well ventilated environment that is not exposed to direct sunlight or thermal radiation, and is non corrosive and non flammable. If there is a mal function, please seek professional assistance. It is strictly prohibited to disassemble or modify the product without authorization.

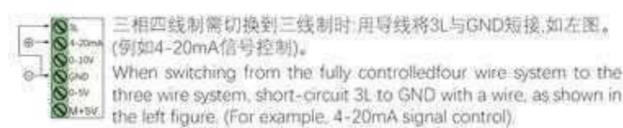
二、产品规格 Product Model

型号 Type	SCR3-□□KW-3(三/四线制)			SCR3-□□KW-4(三线制)	
额定电流 Current	6KW	9KW	12KW	18KW	24KW
外型尺寸 Dimension (mm)	L	140		140	
	W	100		115	
	H	135		150	
安装尺寸 Dimension (mm)	W1	80		80	
	L1	90		105	
重量(KG) Weight	1.5				
适应负载功率 Adapt to load power	公式: 输入电压x选型电流/2x√3 Formula: Input voltage x Selection current/2x√3				

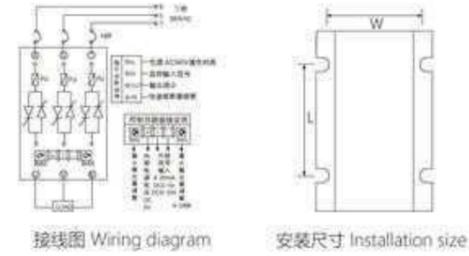
四、三相三线控制信号接线图 Wiring Diagram



五、三相四线控制信号接线图 Wiring Diagram



提示：根据信号功率，电压信号可以多台并联使用，电流信号可以多台串联使用。
Tip: According to the signal power, multiple voltage signals can be used in parallel, and multiple current signals can be used in series.



接线图 Wiring diagram

安装尺寸 Installation size

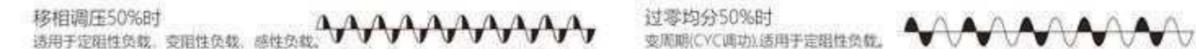
一、产品特点 Product Features

- ▲ 数字线性移相控制电路，稳定性好，精度高。
- ▲ 模块化，耐高压，更安全可靠。
- ▲ 小型化，安装、接线等使用方便。
- ▲ 内置热敏元件，具有机体过热保护。
- ▲ 应用领域：各种电加热设备、塑料机械、食品机械、包装机械。
- ▲ Digital linear phase-shifting control circuit, with good stability and high accuracy.
- ▲ Modular, high voltage resistant, safer and more reliable.
- ▲ Miniaturization, easy to install, wire, and use.
- ▲ Built in thermal sensor with body overheating protection.
- ▲ Application areas: Various electric heating equipment, plastic machinery, food machinery, packaging machinery.

三、产品性能 Product Features

- ▲ 额定电压：三相180-480VAC (50/60Hz)。
- ▲ 输出方式：移相调压，过零调功。
- ▲ 控制信号：4-20mA, 1-5VDC, 2-10VDC, 0-20mA, 0-5VDC, 0-10VDC (6种信号可切换)。
- ▲ 输入阻抗：4-20mA(250Ω), 1-5VDC(>8KΩ), 2-10VDC(>8KΩ), 0-20mA(250Ω), 0-5VDC(>8KΩ), 0-10VDC(>8KΩ)。
- ▲ 使用环境温度：65℃以下，湿度90%RH以下。
- ▲ Rated voltage: three-phase 180-480VAC (50/60Hz).
- ▲ Output mode: phase-shifting voltage regulation, zero crossing power regulation.
- ▲ Control signals: 4-20mA, 1-5VDC, 2-10VDC, 0-20mA, 0-5VDC, 0-10VDC, (6 types of signals can be switched).
- ▲ Input impedance: 4-20mA (250Ω), 1-5VDC (>8KΩ), 2-10VDC (>8KΩ), 0-20mA (250Ω), 0-5VDC (>8KΩ), 0-10VDC (>8KΩ).
- ▲ Operating environment: Temperature: below 65 °C, humidity: below 90%RH.

五、输出方式及波形 Output Wave



六、注意事项 Warning

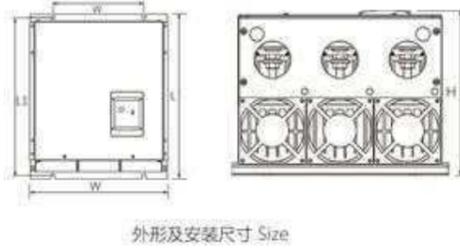
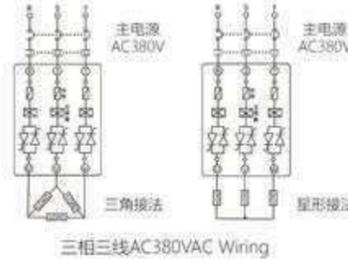
- 主电路中采用三相三线或四线输入，无相序要求。请根据负载接线方式和功率大小来正确选型，否则会造成SCR损坏或散热器容易发烫。
- SCR是壁挂式的，系大电流产品，安装时请务必拧紧SCR主输入、输出接线螺丝，以免打火，垂直安装可达最佳散热效果。
- 当散热器达到一定温度时，SCR会报警并停止输出，此时请检查风扇是否工作，环境温度是否过高。
- 通电过程中严禁触摸输入、输出端子，以免发生触电危险。如表面落有灰尘及异物请及时清理，避免相间打火，而导致SCR烧毁。
- 请使用在通风良好，不受日光直射或热辐射，无腐蚀性，无可燃性的环境中。若有故障，请找专业人员；严禁私自分拆、改造该产品。
- The main circuit adopts three-phase three wire or four wire input without phase sequence requirements. Please select the correct type based on the load wiring method and power size, otherwise it may cause SCR damage or heat sink overheating.
- SCR is a wall mounted, high current product. When installing, please be sure to tighten the main input and output wiring screws of SCR to avoid ignition. Vertical installation can achieve the best heat dissipation effect.
- When the radiator reaches a certain temperature, the SCR will sound an alarm and stop outputting. At this time, please check if the fan is working and if the ambient temperature is too high.
- During the power on process, it is strictly prohibited to touch the input and output terminals to avoid the risk of electric shock. If there is dust or foreign matter on the surface, please clean it up in a timely manner to avoid sparking between phases, which may cause SCR to burn out.
- Please use in a well ventilated environment that is not exposed to direct sunlight or thermal radiation, and is non corrosive and non flammable. If there is a mal function, please seek professional assistance. It is strictly prohibited to disassemble or modify the product without authorization.

二、产品规格 Product Model

型号 Type	AysCR-□□LA (-QK)		J3-SCR-□□LA (-QK)		FUSCR-□□LA (-QK)				
额定电流 Current	25A	40A	75A	90A	120A	120A	150A	200A	250A
外型尺寸 Dimension (mm)	L	112	112	115	140	315	315		
	W	165	230	230	115	145	145		
	H	165	165	180	160	210	225		
安装尺寸 Dimension (mm)	W1	100	100	100	80	205	205		
	L1	95	160	160	105	135	135		
重量(KG) Weight	2		3.5		5.7	6	6.5		
适应负载功率 Adapt to load power	公式: 输入电压x选型电流/2x√3 Formula: Input voltage x Selection current/2x√3								

四、控制信号接线示意图 Wiring Diagram





一、产品特点 Product Features

- ▲ 数字线性移相控制电路，稳定性好，精度高。
- ▲ 模块化，耐高压，更安全可靠。
- ▲ 小型化，安装，接线等使用方便。
- ▲ 内置快熔保护，大电流互感器便于配接电流表。
- ▲ 应用领域各种电加热设备、塑料机械、食品机械、包装机械。
- ▲ Digital linear phase-shifting control circuit, with good stability and high accuracy.
- ▲ Modular, high voltage resistant, safer and more reliable.
- ▲ Miniaturization, easy to install, wire, and use.
- ▲ Built in fast melting protection, high current transformer for easy connection to ammeter.
- ▲ Application areas: Various electric heating equipment, plastic machinery, food machinery, packaging machinery.

三、产品性能 Product Features

- ▲ 额定电压：三相180-440VAC/(50/60Hz)(三相三线)。
- ▲ 额定电流：300A, 400A, 500A, 600A。
- ▲ 输出方式：移相调压，过零调功。
- ▲ 控制信号：4-20mA, 1-5VDC, 2-10VDC, 0-20mA, 0-5VDC, 0-10VDC (6种信号可切换)。
- ▲ 输入阻抗：4-20mA(250Ω), 1-5V(>8KΩ), 2-10V(>8KΩ), 0-20mA(25Ω), 0-5VDC(>8KΩ), 0-10VDC(>8KΩ)。
- ▲ 使用环境：温度<65℃以下；湿度<90%RH以下。
- ▲ Rated voltage: three-phase 180-440VAC/(50/60Hz) (three-phase three wire).
- ▲ Rated current: 300A, 400A, 500A, 600A.
- ▲ Output mode: phase-shifting voltage regulation, zero crossing power regulation.
- ▲ Control signals: 4-20mA, 1-5VDC, 2-10VDC, 0-20mA, 0-5VDC, 0-10VDC, (6 types of signals can be switched).
- ▲ Input resistance: 4-20mA (250Ω), 1-5V (>8KΩ), 2-10V (>8KΩ), 0-20mA (25Ω), 0-5VDC (>8KΩ), 0-10VDC (>8KΩ).
- ▲ Operating environment: Temperature: below 65 °C; Humidity: below 90% RH.

五、输出方式及波形 Output Wave

移相调压50%时
适用于电阻性负载，变频性负载，感性负载。



过零均分50%时
变周期(CYC调功)适用于电阻性负载。



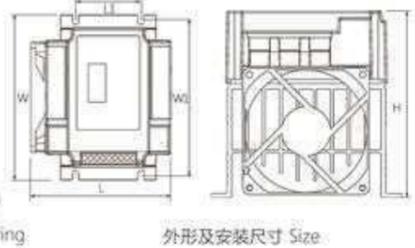
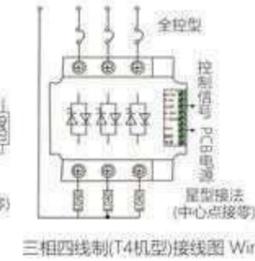
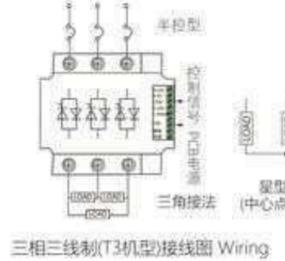
六、注意事项 Warning

- 主电路中采用三相三线或四线输入，无相序要求。请根据负载接线方式和功率大小来正确选型，否则会造成SCR损坏或散热器容易发烫。
- SCR是壁挂式的，系大电流产品，安装时请务必拧紧SCR主输入、输出接线螺丝，以免打火，垂直安装可达最佳散热效果。
- 当散热器达到一定温度时，SCR会报警并停止输出，此时请检查风扇是否工作，环境温度是否过高。
- 通电过程中，严禁触摸输入、输出端子，以免发生触电危险。如表面落有灰尘及异物请及时清理，避免相间打火，而导致SCR烧毁。
- 请使用在通风良好，不受日光直射或热辐射，无腐蚀性，无可燃性的环境中。若有故障，请找专业人员，严禁私自分拆，改造该产品。
- The main circuit adopts three-phase three wire or four wire input without phase sequence requirements. Please select the correct type based on the load wiring method and power size, otherwise it may cause SCR damage or heat sink over heating.
- SCR is a wall mounted, high current product. When installing, please be sure to tighten the main input and output wiring screws of SCR to avoid ignition. Vertical installation can achieve the best heat dissipation effect.
- When the radiator reaches a certain temperature, the SCR will sound an alarm and stop outputting. At this time, please check if the fan is working and if the ambient temperature is too high.
- During the power on process, it is strictly prohibited to touch the input and output terminals to avoid the risk of electric shock. If there is dust or foreign matter on the surface, please clean it up in a timely manner to avoid sparking between phases, which may cause SCR to burn out.
- Please use in a well ventilated environment that is not exposed to direct sunlight or thermal radiation, and is non corrosive and non flammable. If there is a malfunction, please seek professional assistance. It is strictly prohibited to disassemble or modify the product without authorization.

二、产品规格 Product Model

型号 Type	YZHSCR-□□□□A-YJ*			
额定电流 Current	300A	400A	500A	600A
外形尺寸 Dimension (mm)	L	300	390	
	W	360	430	
	H	225	260	
安装尺寸 Dimension (mm)	W1	200	250	
	L1	345	410	
重量(KG) Weight	18 28			
适应负载功率 Adapt to load power	公式：输入电压x选型电流/2√3 Formula: Input voltage x Selection current/2√3			

四、控制信号接线示意图 Wiring Diagram



一、产品特点 Product Features

- ▲ 数字线性移相控制电路，稳定性好，精度高。
- ▲ 模块化，耐高压，更安全可靠。
- ▲ 小型化，安装，接线等使用方便。
- ▲ 数码管+LED组合显示，工作状态更清晰。
- ▲ 内置热敏元件，具有机体过热保护。
- ▲ 应用领域各种电加热设备、塑料机械、食品机械、包装机械。
- ▲ Digital linear phase-shifting control circuit, with good stability and high accuracy.
- ▲ Modular, high voltage resistant, safer and more reliable.
- ▲ Miniaturization, easy to install, wire, and use.
- ▲ The combination of digital tube and LED display provides clearer working status.
- ▲ Built in thermal sensor with body overheating protection.
- ▲ Application areas: Various electric heating equipment, plastic machinery, food machinery, packaging machinery.

三、产品性能 Product Features

- ▲ 额定电压：三相380VAC 50Hz/60Hz。
- ▲ 辅助电源/风扇电源：AC220V 50Hz/60Hz。
- ▲ 输出方式：移相调压。
- ▲ 自动信号：4-20mA, 0-5VDC, 0-10VDC。
- ▲ 手动信号：10K/2W电位器。
- ▲ 显示功能：输出百分比，LED状态指示。
- ▲ 使用环境：温度-20~65℃, 湿度≤90%RH。
- ▲ Rated voltage: three-phase 380VAC 50Hz/60Hz.
- ▲ Auxiliary power supply/fan power supply: AC220V 50Hz/60Hz.
- ▲ Output mode: Phase shifted voltage regulation.
- ▲ Automatic signal: 4-20mA, 0-5VDC, 0-10VDC.
- ▲ Manual signal: 10K/2W potentiometer for manual adjustment.
- ▲ Display function: Output percentage, LED status indication.
- ▲ Operating environment: Temperature: -20~65 °C, Humidity: ≤ 90%RH.

五、输出方式及波形 Output Wave

10-100% 移相调压



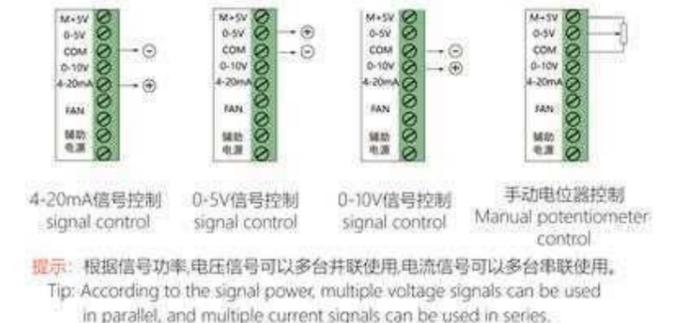
六、注意事项 Warning

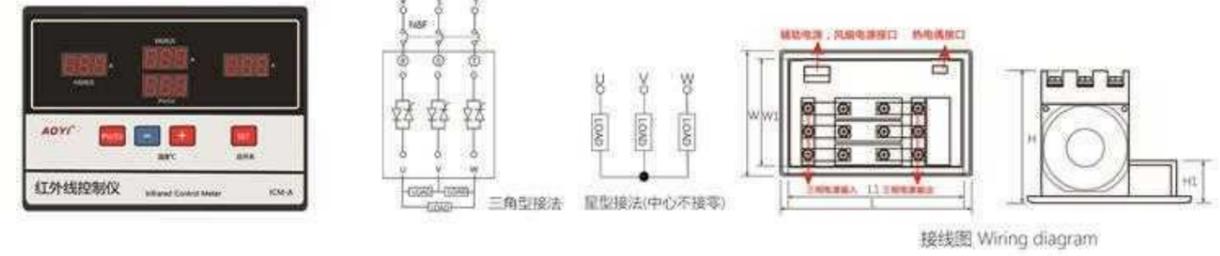
- 主电路中采用三相三线或四线输入，无相序要求。请根据负载接线方式和功率大小来正确选型，否则会造成SCR损坏或散热器容易发烫。
- SCR是壁挂式的，系大电流产品，安装时请务必拧紧SCR主输入、输出接线螺丝，以免打火，垂直安装可达最佳散热效果。
- 当散热器达到一定温度时，SCR会报警并停止输出，此时请检查风扇是否工作，环境温度是否过高。
- 通电过程中，严禁触摸输入、输出端子，以免发生触电危险。如表面落有灰尘及异物请及时清理，避免相间打火，而导致SCR烧毁。
- 请使用在通风良好，不受日光直射或热辐射，无腐蚀性，无可燃性的环境中。若有故障，请找专业人员，严禁私自分拆，改造该产品。
- The main circuit adopts three-phase three wire or four wire input without phase sequence requirements. Please select the correct type based on the load wiring method and power size, otherwise it may cause SCR damage or heat sink over heating.
- SCR is a wall mounted, high current product. When installing, please be sure to tighten the main input and output wiring screws of SCR to avoid ignition. Vertical installation can achieve the best heat dissipation effect.
- When the radiator reaches a certain temperature, the SCR will sound an alarm and stop outputting. At this time, please check if the fan is working and if the ambient temperature is too high.
- During the power on process, it is strictly prohibited to touch the input and output terminals to avoid the risk of electric shock. If there is dust or foreign matter on the surface, please clean it up in a timely manner to avoid sparking between phases, which may cause SCR to burn out.
- Please use in a well ventilated environment that is not exposed to direct sunlight or thermal radiation, and is non corrosive and non flammable. If there is a malfunction, please seek professional assistance. It is strictly prohibited to disassemble or modify the product without authorization.

二、产品规格 Product Model

型号 Type	T3-□□□A(三线制)				T4-□□□A(四线制)			
额定电流 Current	40A	60A	80A	100A				
外形尺寸 Dimension (mm)	L	120	130	130				
	W	140	140	140				
	H	135	135	135				
安装尺寸(mm) Dimension	L1	55	55	55				
	W1	125	125	125				
重量(KG) Weight	1.1							
适应负载功率 Adapt to load power	公式：输入电压x选型电流/2√3 Formula: Input voltage x Selection current/2√3							

四、控制端子接线图 Wiring Diagram





一、产品特点 Product Features

- ▲ 采用真空焊接工艺的高耐压全控型模块，稳定性高。
- ▲ 内置快速熔断器，具有过流保护功能。
- ▲ 具有机体温度检测和超温保护功能。
- ▲ 具备异常实时监控及报警功能。
- ▲ 输出具有缓启动及起停功能。
- ▲ 电源频率适应于50/60Hz，不需任何切换。
- ▲ 全数字化操作，手动和自动控制模式一键切换。
- ▲ 移相调压和过零调功输出模式可切换。
- ▲ 输入控制信号与输出呈线性比例。

- ▲ The high-pressure fully controlled module using vacuum welding technology has high stability.
- ▲ Built in fast fuse with overcurrent protection function.
- ▲ It has the functions of body temperature detection and over temperature protection.
- ▲ Equipped with real-time monitoring and alarm functions for abnormalities.
- ▲ The output has slow start and start stop functions.
- ▲ The power frequency is suitable for 50/60Hz and does not require any switching.
- ▲ Fully digital operation, one click switch between manual and automatic control modes.
- ▲ The output modes of phase-shifting voltage regulation and zero crossing power regulation can be switched.
- ▲ The input control signal is linearly proportional to the output.

二、产品规格 Product Model

型号 Type	D1-33-□□PA	D2-33-□□PA	D3-33-□□PA	D4-33-□□PA	D5-33-□□PA	D6-33-□□PA	D7-33-□□PA
额定电流 Current	25A	40A	75A 90A	110A	120A 150A	200A	250A 300A 400A 500A 600A
外形尺寸 Dimension (mm)	图1		图2		图4		
	W	115	115	115	145	145	300
	L	165	235	235	245	315	360
安装尺寸 Dimension (mm)	图3		图5				
	L1	105	105	135	135	135	200
重量(KG) Weight	2	3	6	6.5	7	18	28
适应负载功率 Adapt to load power	公式: 输入电压x选型电流/2x√3。 Formula: input voltage x Selection current/2x√3.						

三、产品性能 Product Features

- ▲ 额定电压: 三相AC380V±15%/50Hz/60Hz。
- ▲ 辅助电源: AC220V±15%/50Hz/60Hz。
- ▲ 输出方式: 相位输出/过零均分/过零取样(三种方式可切换)。
- ▲ 控制信号: 4-20mA, 0-5V, 0-10V, 0-20mA, 1-5V, 2-10V。
- ▲ 主要功能: 1. 显示功能: LED显示SCR工作状态、机体温度及故障代码。 2. 过流保护: 采用快速熔断器过流保护。 3. 超温停机: 机体温度超95°C, SCR停止工作。 4. 起停功能: 接线端子RUN/Stop 短路开机, 断开停机。 5. 报警输出: 故障报警后有常闭/常开两继电器输出。 6. 快速切换: 一键快速切换手动/自动输出。
- ▲ 使用环境: 环境温度-20~65°C, 散热温度90%RH以下。

- ▲ Rated voltage: three-phase AC380V ± 15%/50Hz/60Hz.
- ▲ Auxiliary power supply: AC220V ± 15%/50Hz/60Hz.
- ▲ Output modes: phase output/zero crossing equalization/zero crossing sampling (three modes can be switched).
- ▲ Control signal: 4-20mA, 0-5V, 0-10V, 0-20mA, 1-5V, 2-10V.
- ▲ Main function: 1. Display function: LED displays the working status of SCR, body temperature, and fault codes. 2. Overcurrent protection: using fast fuse overcurrent protection. 3. Overtemperature shutdown: When the body temperature exceeds 95 °C, the SCR stops working. 4. Start stop function: Connect terminal RUN/Stop short circuit to start, disconnect and stop the machine. 5. Alarm output: After a fault alarm, there are two sets of relay outputs: normally closed/normally open. 6. Quick switch: One click quick switch between manual/automatic output.
- ▲ Usage environment: Environmental temperature: -20~65 °C, heat dissipation temperature: below 90% RH.

一、产品特点 Product Features

- ▲ 一体化结构, 接线简便, 减少劳动力成本。
- ▲ 软件调零满度, 冷端单独测温, 放大器自稳零, 显示精度可优于1.0%FS。
- ▲ 模糊理论结合传统PID方法控制快速平稳。
- ▲ 先进的PID参数自整定方法, 整定时间较一般仪表缩短1/3以上时间。
- ▲ 过载保护功能, 当因超负荷运行造成的散热器温度过高, 本控制器会关闭输出。
- ▲ Integrated structure, easy wiring, and reduced labor costs.
- ▲ Software zeroing at full capacity, separate temperature measurement at the cold end, amplifier self stabilizing zero, display accuracy can be better than 1.0% FS.
- ▲ Combining fuzzy theory with traditional PID methods to achieve fast and stable control.
- ▲ Advanced PID parameter self-tuning method, which shortens the tuning time by more than 1/3 compared to general instruments.
- ▲ Overload protection function, when the radiator temperature is too high due to overload operation, this controller will turn off the output.

三、产品性能 Product Features

- ▲ K型热电偶, 可设(及测量)温度范围0-400°C(其它规格需订做)。
- ▲ 测量精度: 1.0级(±1.0%F±1)。
- ▲ 采样速率: 2次/秒。
- ▲ 调节方式: 智能PID调节。
- ▲ 散热器超温过流关断输出温度: 95°C。
- ▲ 电源: 220VAC±10%50/60Hz; (其它电压需订做), 控制器本身电源功耗: ≤3VA。
- ▲ 工作环境: 温度-20~65°C, 湿度≤85%RH无凝露, 无腐蚀场合。
- ▲ K-type thermocouple, capable of setting (and measuring) a temperature range of 0-400 °C (other specifications require customization).
- ▲ Measurement accuracy: 1.0 level (± 1.0% F ± 1).
- ▲ Sampling rate: 2 times/second.
- ▲ Adjustment method: Intelligent PID adjustment.
- ▲ Heat sink overheating and overload shutdown output temperature: 95 °C.
- ▲ Power supply: 220VAC ± 10% 50/60Hz; (Other voltages need to be customized), power consumption of the controller itself: ≤ 3VA.
- ▲ Working environment: Temperature -20-65 °C, humidity ≤ 85% RH, no condensation, no corrosive environment.

五、注意事项 Warning

- 主电路中采用三相三线或四线输入, 无相序要求, 请根据负载接线方式和功率大小来正确选型, 否则会造成SCR损坏或散热器容易发烫。
- SCR是壁挂式的, 系大电流产品, 安装时请务必拧紧SCR主输入、输出接线螺丝, 以免打火, 垂直安装可达最佳散热效果。
- 当散热器达到一定温度时, SCR会报警并停止输出, 此时请检查风扇是否工作, 环境温度是否过高。
- 通电过程中, 严禁触摸输入、输出端子, 以免发生触电危险。如表面落有灰尘及异物请及时清理, 避免相间打火, 而导致SCR烧毁。
- 请使用在通风良好, 不受日光直射或热辐射, 无腐蚀性、无可燃性的环境中。若有故障, 请找专业人员, 严禁私自分拆、改造该产品。

二、产品规格 Product Model

型号 Type	ICM3-A	ICM3-9KW-A	ICM3-12KW-A
额定功率(KW)	外接SKKT	9	12
外形尺寸 Dimension (mm)	L	230	
	W	150	
	H	120	
	H1	35	
安装尺寸 Dimension (mm)	L1	212	
	W1	132	
重量(KG) Weight	0.3	1.5	

四、端子接线图 Terminal Wiring Diagram



ICM-9KW背面接线端子 ICM-9KW back terminal block



一、产品特点 Product Features

- ▲ 全数字化操作及温度显示功能。
- ▲ 采用真空焊接工艺的高耐压全控型模块，稳定性高。
- ▲ 移相调压、过零调功、SSR模式可切换。
- ▲ 具备可输入命令及故障报警功能。
- ▲ 内置快速熔断器，具有过流保护功能。
- ▲ 电源频率50/60Hz自适应。
- ▲ 信号输入百分比和输出百分比呈线性比例。
- ▲ 具有缓启动和外部控制起停功能。
- ▲ 异常检测显示功能，方便排除问题及维修。
- ▲ 主电源范围更宽：180-480VAC。
- ▲ Fully digital operation and temperature display function.
- ▲ High pressure fully controlled module using vacuum welding technology, with high stability.
- ▲ Phase shifting voltage regulation, zero crossing power regulation, and SSR mode can be switched.
- ▲ Equipped with command input and fault alarm functions.
- ▲ Built in fast fuse with overcurrent protection function.
- ▲ The power frequency is 50/60Hz adaptive.
- ▲ The percentage of signal input and output are linearly proportional.
- ▲ It has the functions of slow start and external control start stop.
- ▲ Abnormal detection display function, convenient for troubleshooting and maintenance.
- ▲ The main power supply has a wider range: 180-480VAC.

二、产品规格 Product Model

型号 type	E1-11-□□PA E1-12-□□PA	额定电流 Current	25A 40A 75A 90A 120A		150A 200A 250A 300A	
			25A 40A 75A	90A 120A 150A 200A		
外型尺寸(mm) Dimension	W		115		115	
	L		185		235	
	H		170		185	
安装尺寸(mm) Dimension	W1		105		105	
	L1		95		160	
主电源输入/输出安装螺丝 Main power input and output installation screws			M6		M8	
适应负载功率 Adapt to load power		公式：输入电压x选型电流/2。 Formula: Input voltage x Selection current/2.				

三、产品性能 Product Features

- ▲ 输入电压：1.单相220VA/50Hz/60Hz；电压范围：AC180-250VAC，把菜单1层中的主电源电压设定为0。
- 2.单相380VA/50Hz/60Hz；电压范围：AC300-440VAC，把菜单1层中的主电源电压设定为1。
- ▲ 辅助电源：AC220V±15%/50Hz/60Hz。
- ▲ 输出模式：过零调压、过零调功、稳压/稳流/稳功、固态SSR等多种输出模式。
- ▲ 控制信号：4-20mA, 0-5V, 0-10V, 0-20mA, 1-5V, 2-10V, 六种控制信号可选择切换。
- ▲ 主要功能：
 - 1.显示功能：LED显示SCR工作状态，机体温度及故障代码。
 - 2.过流保护：采用快速熔断器过流保护。
 - 3.超温停机：机体温度超95℃，SCR停止工作。
 - 4.起停功能：接线端子RUN/STOP 短路开机，断开停机。
 - 5.报警输出：故障报警后，有常闭/常开两组继电器输出。
 - 6.快速切换：一键快速切换手动/自动输出。
 - 7.智能风扇控制：机体温度达42℃时风扇工作可延长风扇寿命。
- ▲ 使用环境：环境温度-20~65℃，散热湿度：90%RH以下。
- ▲ Input voltage: 1. Single phase 220V A/50Hz/60Hz; Voltage range: AC180-250VAC, sets the main power supply voltage in menu layer 1 to 0.
- 2. Single phase 380VA/50Hz/60Hz; Voltage range: AC300-440VAC, Take the menu The main power supply voltage in layer 1 is set to 1.
- ▲ Auxiliary power supply: AC220V ± 15%/50Hz/60Hz.
- ▲ Output modes: Zero crossing voltage regulation, zero crossing power regulation, voltage stabilization/current stabilization/power stabilization, solid-state SSR, etc Output mode.
- ▲ Control signals: 4-20mA, 0-5V, 0-10V, 0-20mA, 1-5V, 2-10V, six types The control signal can be selectively switched.
- ▲ Main functions:
 1. Display function: LED displays the working status of SCR, body temperature, and fault codes.
 2. Overcurrent protection: Adopting fast fuse overcurrent protection.
 3. Overtemperature shutdown: When the body temperature exceeds 95 °C, the SCR stops working.
 4. Start stop function: Connect the RUN/STOP terminal to short-circuit and start the machine, disconnect and stop the machine.
 5. Alarm output: After a fault alarm, there are two sets of relay outputs: normally closed/normally open.
 6. Quick switch: One click quick switch between manual/automatic output.
 7. Intelligent fan control: When the body temperature reaches 42 °C, the fan works to extend its lifespan.
- ▲ Operating environment: Environmental temperature: -20~65 °C, heat dissipation temperature: below 90% RH.



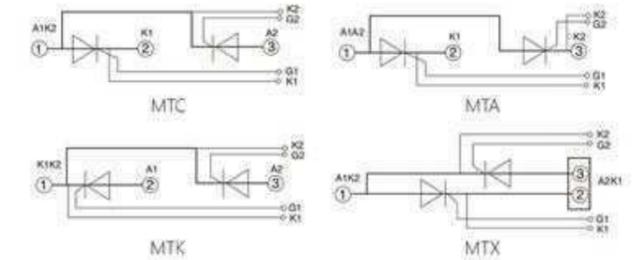
特征 Features

- ▲ 芯片与底板电气绝缘≥2500V。
- ▲ 国际标准封装。
- ▲ 真空+充氮保护焊接技术。
- ▲ 焊接或压接结构，优良的温度。
- ▲ 特性和功率循环能力。
- ▲ 400A以下模块皆为强迫风冷；400A以上：模块，既可选用风冷；也可选用水冷。
- ▲ 安装简单，使用维修方便。
- ▲ 体积小，重量轻。
- ▲ The electrical insulation between the chip and the substrate is ≥ 2500V.
- ▲ International standard packaging.
- ▲ Vacuum+hydrogen charging protection welding technology.
- ▲ Welding or crimping structure, excellent temperature.
- ▲ Characteristics and power cycling capability.
- ▲ Modules below 400A are all forced air-cooled, while those above 400A are not; Modules can be either air-cooled or water-cooled.
- ▲ Easy installation and convenient use and maintenance.
- ▲ Small size and light weight.

典型应用 Typical applications

- ▲ 交流电机控制。
- ▲ 工业加热控制。
- ▲ 调光。
- ▲ 无触点开关。
- ▲ 电机软启动。
- ▲ 静止无功补偿。
- ▲ 电焊机。
- ▲ 变频器。
- ▲ UPS电源。
- ▲ AC/DC motor control.
- ▲ Industrial heating control.
- ▲ Dimming.
- ▲ Contactless switch.
- ▲ Motor soft start.
- ▲ Static reactive power compensation.
- ▲ Welding machine.
- ▲ Variable frequency drive.
- ▲ UPS power supply.

模块型号与电路图 Module and Circuit Diagram



型号 type	通态平均电流 I _{T(AV)} A	耐压 V _{DRM} V	漏电流 I _{DRM} mA	通态峰值电压 V _{TM} V	电压上升率 Dv/dt V/μs	触发电流 I _{GT} mA	触发电压 V _{GT} V	维持电流 I _H mA	最高结温 T _{jm} ℃
SKKT-20A	20	1600	≤10	≤1.5	800	≤35	≤2	≤70	125
SKKT-30A	30	1600	≤10	≤1.5	800	≤35	≤2	≤70	125
SKKT-60A	60	1600	≤10	≤1.5	800	≤35	≤2	≤70	125
SKKT-90A	90	1600	≤15	≤1.5	800	≤40	≤2	≤80	125
SKKT-120A	120	1600	≤15	≤1.5	800	≤40	≤2	≤80	125
MTC-60A	60	1600	≤10	≤1.5	800	≤35	≤2	≤70	125
MTC-90A	90	1600	≤15	≤1.5	800	≤40	≤2	≤80	125
MTC-120A	120	1600	≤15	≤1.5	800	≤40	≤2	≤80	125
MTC-160A	160	1600	≤20	≤1.6	800	≤40	≤2.5	≤80	125
MTC-200A	200	1600	≤20	≤1.6	800	≤40	≤2.5	≤80	125
MTC-250A	250	1600	≤20	≤1.6	800	≤40	≤2.5	≤80	125
MTC-300A	300	1600	≤30	≤1.8	800	≤80	≤3	≤160	125
MTC-400A	400	1600	≤30	≤1.8	800	≤80	≤3	≤160	125
MTC-500A	500	1600	≤30	≤1.8	800	≤80	≤3	≤160	125
MTC-600A	600	1600	≤30	≤1.8	800	≤80	≤3	≤160	125

注：MTK、MTA、MTX模块的有关参数与上述的MTC模块相同。
Note: The relevant parameters of MTK, MTA, and MTX modules are the same as those of the MTC module mentioned above.



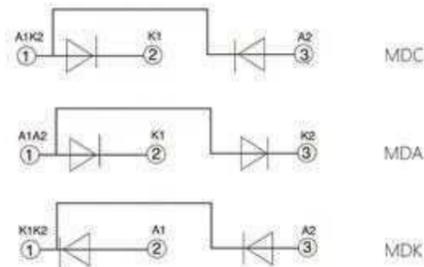
特征 Features

- ▲ 芯片与底板电气绝缘≥2500V.
 - ▲ 国际标准封装.
 - ▲ 真空+充氮保护焊接技术.
 - ▲ 焊接或压接结构, 优良的温度.
 - ▲ 特性和功率循环能力.
 - ▲ 400A以下模块皆为强迫风冷, 400A以上模块, 既可选用风冷, 也可选用水冷.
 - ▲ 安装简单, 使用维修方便.
 - ▲ 体积小, 重量轻.
- ▲ The electrical insulation between the chip and the substrate is ≥ 2500V.
 - ▲ International standard packaging.
 - ▲ Vacuum+hydrogen charging protection welding technology.
 - ▲ Welding or crimping structure, excellent temperature.
 - ▲ Characteristics and power cycling capability.
 - ▲ Modules below 400A are all forced air-cooled, while those above 400A are not. Modules can be either aircooled or watercooled.
 - ▲ Easy installation and convenient use and maintenance.
 - ▲ Small size and light weight.

典型应用 Typical applications

- ▲ 交直流电机控制.
 - ▲ 各种整流电源.
 - ▲ 工业加热控制.
 - ▲ 调光.
 - ▲ 电机软启动.
 - ▲ 静止无功补偿.
 - ▲ 电焊机.
 - ▲ UPS电源.
 - ▲ 电池充放电.
- ▲ AC/DC motor control.
 - ▲ Various rectifier power supplies.
 - ▲ Industrial heating control.
 - ▲ Dimming.
 - ▲ Motor soft start.
 - ▲ Static reactive power compensation.
 - ▲ Welding machine.
 - ▲ UPS power supply.
 - ▲ Battery charging and discharging.

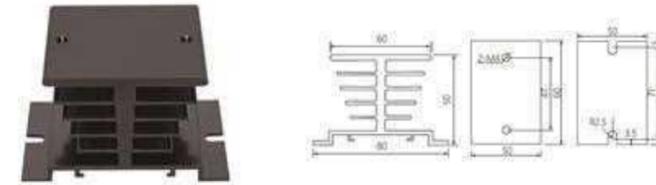
模块型号与电路图 Module and Circuit Diagram



型号 Type	通态平均 电流 A	反向峰值电压 V _{RM} V	反向漏电流 I _{REV} mA	通态峰值电压 V _{TM} V	通态峰值电流 I _{TM} A	最高结温 T _{JM} °C
MDC-20A	20	1600	≤10	≤1.5	80	125
MDC-30A	30	1600	≤10	≤1.5	90	125
MDC-60A	60	1600	≤10	≤1.5	160	125
MDC-80A	80	1600	≤15	≤1.5	240	125
MDC-100A	100	1600	≤15	≤1.5	200	125
MDC-120A	120	1600	≤15	≤1.5	360	125
MDC-160A	160	1600	≤20	≤1.6	480	125
MDC-180A	180	1600	≤20	≤1.6	540	125
MDC-200A	200	1600	≤20	≤1.6	400	125
MDC-250A	250	1600	≤20	≤1.6	750	125
MDC-300A	300	1600	≤30	≤1.8	900	125
MDC-400A	400	1600	≤30	≤1.8	1200	125
MDC-500A	500	1600	≤30	≤1.8	1500	125
MDC-600A	600	1600	≤30	≤1.8	1800	125

注: MDK, MDA模块的有关参数与上述的MDC模块相同。
Note: The relevant parameters of MDK and MDA modules are the same as those of the MDC module mentioned above.

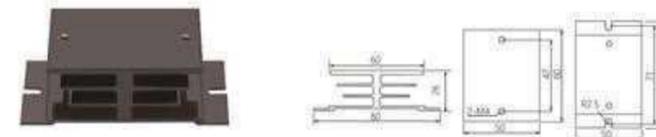
A型散热器 A type radiator



A-50(2孔 重82g)

型号 model: A-50(80x50)
长x宽x高(mm)
lengthxwidthxheight 50x80x50
适用范围
application range 适用于负载实际电流小于15A的一只长方形单相固态继电器。(散热器A-50, 长度50mm, 以此散热器长度为一位, A-100长度100mm, 为二位, 以此类推...)
Applied for one piece of oblong single-phase solid state relay with actual load current less than 15A (for radiator A-50, length=50mm, which is treated as one unit, for A-100, length=100mm, treated as two units, etc.)

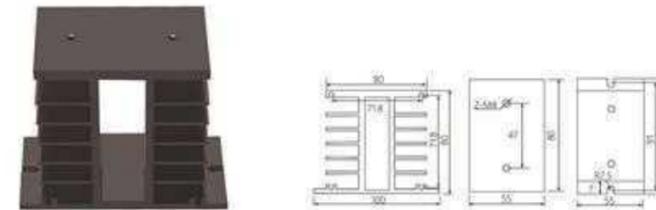
AB型散热器 AB type radiator



AB-50(2孔 重62g)

型号 model: AB-50(80x26)
长x宽x高(mm)
lengthxwidthxheight 50x80x26
适用范围
application range 适用于负载实际电流小于8A的一只长方形单相固态继电器。(散热器AB-50, 长度50mm, 以此散热器长度为一位, A-100长度100mm, 为二位, 以此类推...)
Applied for one piece of oblong single-phase solid state relay with actual load current less than 8A (for radiator AB-50, length=50mm, which is treated as one unit, for A-100, length=100mm, treated as two units, etc.)

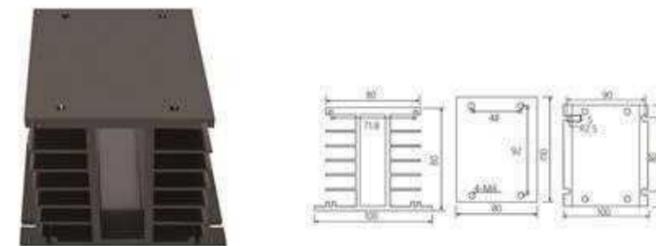
C型散热器 C type radiator



C-55(2孔 重265g)

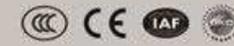
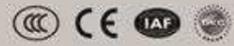
型号 model: C-55(100x80)
长x宽x高(mm)
lengthxwidthxheight 55x100x80
适用范围
application range 适用于负载实际电流小于30A的一只长方形单相固态继电器。(散热器C-55, 长度55mm, 以此散热器长度为一位, C-110长度110mm, 为二位, 以此类推...)
Applied for one piece of oblong single-phase solid state relay with actual load current less than 30A (for radiator C-55, length=55mm, which is treated as one unit, for C-110, length=110mm, treated as two units, etc.)

C型散热器 C type radiator

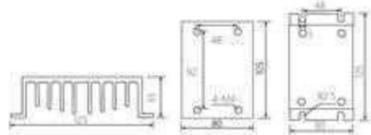


C-110(4孔 重530g)

型号 model: C-110(100x80)
长x宽x高(mm)
lengthxwidthxheight 110x100x80
适用范围
application range 适用于负载实际电流(三相总和)小于60A的一只三相固态继电器。(散热器C-110, 长度110mm, 以此散热器长度为一位, C-220长度=220mm, 为二位, 以此类推...)
Applied for one piece of three-phase solid state relay with actual load current (three-phase amount) less than 60A (for radiator C-110, length=110mm, which is treated as one unit, for C-220, length=220mm, treated as two units, etc.)



G型散热器 G type radiator

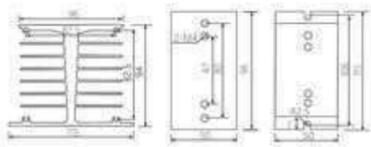


G-80(2孔 重281g)

型号 model: G-80(125x35)

长x宽x高(mm)
lengthxwidthxheight: 80x125x35
适用范围
application range: 适用于负载实际电流(三相总和)小于30A的一只三相固态继电器; (散热器G-80, 长度80mm, 以此散热器长度为一位, G-160长度160mm, 为二位, 以此类推...)
Applied for one piece of three-phase solid state relay with actual load current (three-phase amount) less than 30A (for radiator G-80, length=80mm, which is treated as one unit, for G-160, length=160mm, treated as two units, etc.)

E型散热器 E type radiator

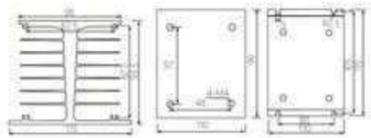


E-50(2孔 重372g)

型号 model: E-50(115x94)

长x宽x高(mm)
lengthxwidthxheight: 50x115x94
适用范围
application range: 适用于负载实际电流小于65A的一只长方形或长方形工业级单相固态继电器; (散热器E-50, 长度50mm, 以此散热器长度为一位, E-100长度100mm, 为二位, 以此类推...)
A rectangular or rectangular industrial grade solid state relay (heat sink E-50, length 50mm) suitable for loads with actual current less than 65A, with the heat sink length as one position, E-100 length 100mm as two positions, and so on

E型散热器 E type radiator

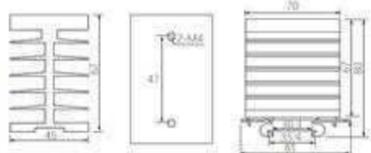


E-110(4孔 重818g)

型号 model: E-110(100x80)

长x宽x高(mm)
lengthxwidthxheight: 110x100x80
适用范围
application range: 适用于负载实际电流(三相总和)小于75A的一只三相固态继电器; (散热器E-110, 长度110mm, 以此散热器长度为一位, E-220长度220mm, 为二位, 以此类推...)
Applied for one piece of three-phase solid state relay with actual load current (three-phase amount) less than 75A (for radiator E-110, length=110mm, which is treated as one unit, for E-220, length=220mm, treated as two units, etc.)

Q型散热器 Q type radiator

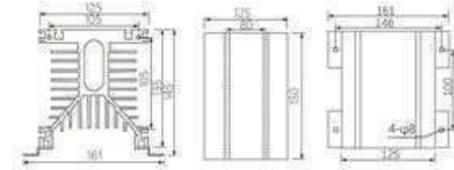


Q-70(4孔 重221g)

型号 model: Q-70(45x67)

长x宽x高(mm)
lengthxwidthxheight: 70x45x67
适用范围
application range: 适用于负载实际电流小于30A的一只长方形单相固态继电器
Applicable to load the actual current less than 30A rectangular single-phase solid state relay

L型散热器 L type radiator



L-150(4孔 重1710g)

型号 model:

**以下负载实际电流以L型系列散热器一端安装一只38x120x120(厚x长x宽)的冷却风扇计算; 装风扇后长度需加上38mm。
**The length should be increased by 38mm after the fan is installed, and its actual load current is counted by one 38mm x120mm x120mm (thickness x length x width) cooling fan installed in one end of L type radiator.

型号 Type	长x宽x高(mm) lengthxwidthxheight	适用范围 Application Range
L-80	80x125x135	1.适用于负载实际电流小于100A的一只单相长条形工业级固态继电器。 2.适用于负载实际电流(三相总和)小于80A的一只三相固态继电器。 1. Applied for one piece of elongated single-phase solid state relay of industrial level with actual load current less than 100A. 2. Applied for one piece of three phase solid state relay with actual load current (three-phase amount) less than 80A.
L-110	110x125x135	1.适用于负载实际电流(三相总和)小于160A的三只单相长条形工业级固态继电器。 2.适用于负载实际电流(三相总和)小于150A的一只三相固态继电器。 3.适用于负载实际电流小于160A的一只长条形工业级固态继电器。 1. Applied for three pieces of single-phase elongated solid state relay of industrial level with actual load current (three-phase amount) less than 160A. 2. Applied for one piece of three-phase solid state relay with actual load current (three phase amount) less than 150A. 3. Applied for one piece of elongated solid state relay of industrial level with actual load current less than 160A.
L-150	150x125x135	1.适用于负载实际电流(三相总和)小于220A的三只单相长条形工业级固态继电器。 2.适用于负载实际电流(三相总和)小于210A的一只三相固态继电器。 3.适用于负载实际电流小于220A的一只单相长条形工业级固态继电器。 1. Applied for three pieces of single-phase elongated solid state relay of industrial level with actual load current (three-phase amount) less than 220A. 2. Applied for one piece of three-phase solid state relay with actual load current (three-phase amount) less than 210A. 3. Applied for one piece of elongated single-phase solid state relay of industrial level with actual load current less than 220A.
L-200	200x125x135	1.适用于负载实际电流(三相总和)小于300A的三只单相长条形工业级固态继电器。 2.适用于负载实际电流小于300A的一只单相长条形工业级固态继电器。 1. Applied for three pieces of single-phase elongated solid state relay of industrial level with actual load current (three-phase amount) less than 300A. 2. Applied for one piece of elongated single-phase solid state relay of industrial level with actual load current less than 300A.
L-250	250x125x135	1.适用于负载实际电流(三相总和)小于350A的三只单相长条形工业级固态继电器。 2.适用于负载实际电流小于350A的一只单相长条形工业级固态继电器。 1. Applied for three pieces of single-phase elongated solid state relay of industrial level with actual load current (three phase amount) less than 350A. 2. Applied for one piece of elongated single phase solid state relay of industrial level with actual load current less than 350A.
L-300	300x125x135	1.适用于负载实际电流(三相总和)小于400A的三只单相长条形工业级固态继电器。 2.适用于负载实际电流小于400A的一只单相长条形工业级固态继电器。 1. Applied for three pieces of single-phase elongated solid state relay of industrial level with actual load current (three-phase amount) less than 400A. 2. Applied for one piece of elongated single-phase solid state relay of industrial level with actual load current less than 400A.
L-400	400x125x135	1.适用于负载实际电流(三相总和)小于500A的三只单相长条形工业级固态继电器。 2.适用于负载实际电流小于500A的一只单相长条形工业级固态继电器。 1. Applied for three pieces of single-phase elongated solid state relay of industrial level with actual load current (three phase amount) less than 500A. 2. Applied for one piece of elongated single-phase solid state relay of industrial level with actual load current less than 500A.

ZKG系列



ZKG-2000系列 ZKG-3000系列 ZKG-2000(A)系列 ZKD-6000系列

一、产品特点 Product Features

- ▲ 数字线性移相控制电路，稳定性好，精度高。
- ▲ 采用负反馈技术，具有稳压、断负载报警功能。
- ▲ 小功率型一体化，使其接线简单，安装方便。
- ▲ 操作简单，通过面板3个按键即可控制输出电压。
- ▲ 具有断电记忆，即每次上电会保持上次断电前状态。
- ▲ 广泛应用于各种单相电加热系统、照明系统等场合。

- ▲ Digital linear phase-shifting control circuit, with good stability and high accuracy.
- ▲ Adopting negative feedback technology, with voltage stabilization and load interruption alarm functions.
- ▲ Low power integrated, making it easy to connect and install.
- ▲ Easy to operate, the output voltage can be controlled through three buttons on the panel.
- ▲ It has power-off memory, which means that it will maintain the state before the last power-off every time it is powered on.
- ▲ Widely used in various single-phase electric heating systems, lighting systems, and other occasions.

二、产品规格/技术参数 Product Model/Technical Parameter

型号 Type	ZKG-2000系列		ZKG-3000系列		ZKG-2000(A)系列		ZKD-6000系列	
	ZKG-1	ZKG-51/52/53	ZKG-2B	ZKG-3B	ZKG-2A	ZKG-3A	ZKD-2A	ZKD-3A
外型尺寸 WxHxL Dimension (mm)	48x48x90	48x48x110	48x48x107		48x48x75		72x72x120	
开孔尺寸 LxW1 Dimension (mm)			45x45				67x67	
输入电压 Input Voltage	AC220V±10%(50/60Hz), 其他电压可定做。 AC220V ± 10% (50/60Hz), Other voltages can be customized.							
输出模式/电压 Output mode/voltage	移相调压: 5V-输入电压(稳压型)。 Phase shifting voltage regulation: 5V - input voltage (stabilized type).							
输出方式 Output Method	外接External SKKS或DV 模块module	外接负载(≤650W) External load (≤ 650W)	外接External SKKS或DV 模块module	外接SKKT模块 External SKKT module	外接External SKKS或DV 模块module	外接SKKT模块 External SKKT module	外接External SKKS或DV 模块module	外接SKKT模块 External SKKT module
控制信号 Control Signal	按键输入 Key-in	51:按键输入/52/53: 按键输入/母表联动 Mother table linkage		按键输入 Key-in				
安装方式 Installation method	面板开孔嵌入式安装，卡扣固定。 Embedded installation with panel openings and buckle fixation.							
工作环境 work environment	温度: -20~65℃, 湿度: ≤90%RH以下。 Temperature: -20~65℃, humidity: ≤ Below 90% RH.							

三、注意事项 Warning

- 一体式的电压调整器，请按产品端子标识连接好电源L、N和OUT线，注意线头触碰散热器，以免触电。多个表时，三相数量尽量分配均衡。
- 分体式的电压调整器，请按产品端子标识连接好电源L、N和(G、T1)、(G1、K1、G2、K2)触发线，其触发线必须与模块一一对应，并尽量采用屏蔽线，远离变频器、电机主线，同时模块的输入线必须与表的L线是同一相，否则造成输出失控或者不稳定。
- 请使用在通风良好，不受日光照射，无腐蚀性，无可燃性的环境中。若出现故障，请联系专业人员，切勿私自拆卸该产品。

DVC系列



DVC-4 DVC-41 DVC-42 DVC-43

一、产品特点 Product Features

- ▲ 数字线性移相控制电路，稳定性好，精度高。
- ▲ 采用负反馈技术，具有稳压、断负载报警功能。
- ▲ 小功率型一体化，使其接线简单，安装方便。
- ▲ 操作简单，通过面板3个按键即可控制输出电压。
- ▲ 具有断电记忆，即每次上电会保持上次断电前状态。
- ▲ 广泛应用于各种单相电加热系统、照明系统等场合。

- ▲ Digital linear phase-shifting control circuit, with good stability and high accuracy.
- ▲ Adopting negative feedback technology, with voltage stabilization and load interruption alarm functions.
- ▲ Low power integrated, making it easy to connect and install.
- ▲ Easy to operate, the output voltage can be controlled through three buttons on the panel.
- ▲ It has power-off memory, which means that it will maintain the state before the last power-off every time it is powered on.
- ▲ Widely used in various single-phase electric heating systems, lighting systems, and other occasions.

二、产品规格/技术参数 Product Model/Technical Parameter

型号 Type	DVC系列			
	DVC-4	DVC-41	DVC-42	DVC-43
外型尺寸 WxHxL Dimension (mm)	52x52x98		48x48x74	
开孔尺寸 LxW1 Dimension (mm)	45x45			
输入电压 Input Voltage	AC220V±10%(50/60Hz)其他电压可定做。 AC220V ± 10% (50/60Hz), Other voltages can be customized.			
输出模式/电压 Output mode/voltage	移相调压: 5V-输入电压(稳压型) Phase shifting voltage regulation: 5V - input voltage (stabilized type)			
输出方式 Output Method	外接负载(≤650W) External load (≤ 650W)	外接负载(≤1000W) External load (≤ 1000W)	外接负载(≤650W) External load (≤ 650W)	
控制信号 Control Signal	按键输入 Key-in		按键输入/母表联动 Key-in/Mother table linkage	
安装方式 Installation method	面板开孔嵌入式安装，卡扣固定。 Embedded installation with panel openings and buckle fixation.			
工作环境 work environment	温度: -20~65℃, 湿度: ≤90%RH以下。 Temperature: -20~65℃, humidity: ≤ Below 90% RH.			

三、注意事项 Warning

- 一体式的电压调整器，请按产品端子标识连接好电源L、N和OUT线，注意线头触碰散热器，以免触电。多个表时，三相数量尽量分配均衡。
- 分体式的电压调整器，请按产品端子标识连接好电源L、N和(G、T1)、(G1、K1、G2、K2)触发线，其触发线必须与模块一一对应，并尽量采用屏蔽线，远离变频器、电机主线，同时模块的输入线必须与表的L线是同一组，否则造成输出失控或不稳定。
- 请使用在通风良好，不受日光照射，无腐蚀性，无可燃性的环境中。若出现故障，请联系专业人员，切勿私自拆卸该产品。



LTC系列



LTC-48



LTC-482



LTC-483

一、产品特点 Product Features

- ▲ 采用单片机数字化控制，精度高，性能稳定。
- ▲ 采用LED和数码管状态同步显示。
- ▲ 操作简单，通过面板区域按键即可设定全功率时间或联动操作。
- ▲ 驱动能力强，最多可达100个子表。
- ▲ 配合子表(ZKG-15,42,43,52,53等)，广泛应用于各种单相电加热系统，照明系统等场合。
- ▲ Adopting microcontroller digital control, high precision and stable performance.
- ▲ Adopting LED and digital tube status synchronous display.
- ▲ Easy to operate, set full power time or linkage operation through panel area buttons.
- ▲ Strong driving ability, up to 100 sub tables.
- ▲ Matching sub tables (ZKG-15, 42, 43, 52, 53, etc.) are widely used in various single-phase electric heating systems, lighting systems, and other applications.

二、产品规格/技术参数 Product Model/Technical Parameter

型号 Type	LTC系列		
	LTC-48	LTC-482	LTC-483
外型尺寸WxHxL Dimension (mm)	52x52x98		
开孔尺寸L1xW1 Dimension (mm)	45x45		
工作电压 Working Voltage	AC220V±20%(50/60Hz)		
输出功能 Output Function	+,-联机/K1,K2开关 +Online/K1, K2 switches	+,-FP联机 +,- FP Online	+,-联机/热电偶控制(0-600°C) +Online/thermocouple control (0-600 °C)
安装方式 Installation Method	面板开孔嵌入式安装，卡扣固定。Embedded installation with panel openings and buckle fixation.		
工作环境 Work Environment	温度：-20~65°C，湿度：≤90%RH以下。Temperature: -20~65 °C, humidity: ≤ Below 90% RH.		

三、注意事项 Warning

- LTC-48输出端子上的R1, R2, R3为联机+,-控制，接对应子表(ZKG-15)的R1, R2, R3，接错子表会失控，K1, K2为定时开关。
- LTC-482输出端子上的+,-, FP为联机控制，接对应子表(ZKG-42/52)的+,-, FP，接错子表会失控。
- LTC-483输出端子上的+,-为联机控制，接对应子表(ZKG-43/53)的+,-, 接错子表会失控，TC+, TC-外接K型热电偶。
- 其联机控制线尽量采用屏蔽线，并远离变频器，电机主线，以防干扰引起失控或不稳定的情况。
- 请使用在通风良好，不受日光照射，无腐蚀性，无可燃性的环境中。若出现故障，请联系专业人员，切勿私自拆卸该产品。
- R1, R2, and R3 on the output terminal of LTC-48 are online+and - controls, connected to R1 of the corresponding sub table (ZKG-15), R2,R3; Connecting the wrong sub table will cause loss of control, K1 and K2 are timed switches.
- +,- on the output terminal of LTC-482, FP stands for online control, connected to the+and - of the corresponding sub table (ZKG-42/52), FP; Connecting the wrong sub table can lead to loss of control.
- The+and - on the output terminal of LTC-483 are for online control. Connect the+and - on the corresponding sub meter (ZKG-43/53). Connecting the wrong sub meter will cause loss of control. TC+and TC - are externally connected to K-type thermocouples.
- The online control line should be shielded as much as possible and kept away from the frequency converter and motor main line to prevent interference that may cause loss of control or instability.
- Please use in a well ventilated, non sunlight, non corrosive, and non flammable environment. If there is a malfunction, please contact a professional and do not disassemble the product without authorization.

DPC系列



DPC-1



DPC-2M



DPC-3M

一、产品特点 Product Features

- ▲ 开机自动全功率输出(快速加热)。
- ▲ 开机全功率输出时间可设定。
- ▲ LED状态显示。
- ▲ 具有断电记忆功能。
- ▲ 外置全功率手动控制。
- ▲ 输出功率稳定度：±1.5%。
- ▲ 设定功率比例范围：0-99%(精度1%)。
- ▲ 开机全功率输出时间设定：0-99分钟(精度1分钟)。
- ▲ 应用范围：适用于阻性加热设备，如吸塑机等机械设备的温度调节。
- ▲ Automatic full power output upon startup (rapid heating).
- ▲ The full power output time during startup can be set.
- ▲ LED status display.
- ▲ Equipped with power-off memory function.
- ▲ External full power manual control.
- ▲ Output power stability:± 1.5%.
- ▲ Set power ratio range: 0-99% (accuracy 1%).
- ▲ Power on full power output time setting: 0-99 minutes (accuracy of 1 minute).
- ▲ Application scope: Suitable for temperature regulation of resistive heating equipment, such as plastic suction machines and other mechanical equipment.

二、产品规格/技术参数 Product Model/Technical Parameter

型号 Type	DPC系列		
	DPC-1	DPC-2M	DPC-3M
外型尺寸WxHxL Dimension (mm)	52x52x35	52x52x92	52x52x46
开孔尺寸L1xW1 Dimension (mm)	45x45		
工作电压 Working Voltage	AC220V±20%(50/60Hz)		
输出模式 Output Function	过零均分调功(无稳功)Zero crossing equal power regulation (no steady power)	过零均分调功(稳功)Zero crossing equal power regulation (stable power)	
输出方式 Output Function	需外接SSR-DV模块 External SSR-DV module is required	外接负载(≤800W) External load (≤ 800W)	需外接SSR-AA模块 External SSR-AA module is required
安装方式 Installation Method	面板开孔嵌入式安装，卡扣固定。Embedded installation with panel openings and buckle fixation.		
工作环境 Work Environment	温度：-20~65°C，湿度：≤90%RH以下。Temperature: -20~65 °C, humidity: ≤ Below 90% RH.		

三、注意事项 Warning

- DPC-1需外接SSR-DV模块，L, N接工作电源；FP接L时为全功率输出，G与模块对应，为触发控制端；L与模块输入必须同相，否则会失控。
- DPC-2M可直接驱动负载，L, N接工作电源；OUT为功率输出端，接负载，FP接L时为全功率输出。
- DPC-3M需外接SSR-AA模块，L, N接工作电源；FP接L时为全功率输出；G与模块对应，为触发控制端；L与模块输入必须同相，否则会失控。
- 其联机控制线尽量采用屏蔽线，并远离变频器，电机主线，以防干扰引起失控或不稳定的情况。
- 请使用在通风良好，不受日光照射，无腐蚀性，无可燃性的环境中。若出现故障，请联系专业人员，切勿私自拆卸该产品。
- DPC-1 requires an external SSR-DV module, with L and N connected to the working power supply; When FP is connected to L, it outputs at full power; G corresponds to the module and serves as the trigger control terminal; The input of the L module must be in phase, otherwise it will lose control.
- DPC-2M can directly drive loads, with L and N connected to the working power supply; OUT is the power output terminal, connected to the load, and FP is the full power output when connected to L.
- DPC-3M requires an external SSR-AA module, with L and N connected to the working power supply; When FP is connected to L, it outputs at full power; G corresponds to the module and serves as the trigger control terminal; The input of L and the module must be in phase, otherwise it will lose control.
- The online control line should be shielded as much as possible and kept away from the frequency converter and motor main line to prevent interference that may cause loss of control or instability.
- Please use in a well ventilated, non sunlight, non corrosive, and non flammable environment. If there is a malfunction, please contact a professional and do not disassemble the product without authorization.

XMT-2000/6000系列



一、产品特点 Product Features

- ▲ 热电偶、热电阻输入及量程范围均可自由设置。
- ▲ 软件调零满度，冷端单独测温，放大器自稳零，显示精度可优于1.0%FS。
- ▲ 模糊理论结合传统PID方法，控制快速平稳。
- ▲ 先进的PID参数自整定方法，整定时间较一般仪表缩短1/3以上时间。
- ▲ 主控输出可选：继电器触点、SSR驱动电平、4-20mA、1-5V。
- ▲ 报警输出：最多二路，可自定义的报警触点输出方式。
- ▲ 应用范围：热流道、吹塑机、塑料等各种加热行业。

二、产品性能 Product Performance

- ▲ 输入规格(一台仪表即可兼容)：热电偶：K、E、J；热电阻：Pt100；模拟量(只支持模拟量输出型)：1-5V(4-20mA)、0-5V(0-20mA)。
- ▲ 测量范围：K(-50-1300/999°C)、J(-50-999°C)、E(-50-800°C)、Pt100(-50-650°C)。
- ▲ 测量精度：1.0级(±1.0%FS±1)。
- ▲ 采样速率：2次/秒。
- ▲ 调节方式：智能PID调节，依据不同的P、I、D参数可组成P(P=0即为位式)、PI、PD、PID调节。
- ▲ 主控可为继电器触点开关输出、触发固态继电器的逻辑电平、4-20mA、1-5V。
- ▲ 报警功能：上限、下限、偏差值、绝对值。
- ▲ 触点容量(阻性负载)：AC250V/3A、DC30V/3A。
- ▲ 电源：220VAC±10%、50/60Hz、100-240V(其它电压需订做)。
- ▲ 电源功耗：≤3VA。
- ▲ 工作环境：温度-20-60°C，湿度≤85%RH无腐蚀场合。

三、型号命名 Type Designation

XMT①-2/6②③④-⑤

其它 Other: 其它备注信息 Other remarks information;
信号输入类型: 1: 热电偶; 2: 热电阻; 3: 模拟量;
Signal input type: 1: Thermocouple; 2: thermistor; 3: Analog quantity;
主控制输出: 0: 二位式(继电器); 3: 位式PID(继电器通断比例); 8: PID调节直流电压输出(DC12V); 9: PID调节模拟量输出(例: 4-20mA、1-5V)。
Main control output: 0: Two position type (relay); 3: Body basket, slag, spear, deep parrot, shoulder curtain, rotary PID(Relay on-off ratio); 8: PID regulation of DC voltage output (DC12V); 9: PID regulation of analog output(Example: 4-20mA, 1-5V);
报警输出(辅助): 0: 无报警功能; 1: 两路报警 默认上限为偏差, 下限为绝对值报警; 5: 一路上限报警, 默认为偏差值; 6: 一路下限报警, 默认为绝对值。
Alarm output (auxiliary): 0: No alarm function; 1: Two way alarm; default upper limit is deviation, lower limit is absolute, and the alarm is triggered by the sensor; 5: One way upper limit alarm Default deviation value; 6: The lower limit of the beast is set to absolute value by default.

型号 Type	XMTG	XMTD	XMTA	XMTE
外形尺寸(mm) Dimensions	48x48x93(82)	72x72x93(70)	96x96x75	48x96x70
开孔尺寸(mm) Dimensions	45x45	68x68	92x92	45x92

XMT-700系列



一、产品特点 Product Features

- ▲ 热电偶、热电阻输入及量程范围均可自由设置。
- ▲ 软件调零满度，冷端单独测温，放大器自稳零，显示精度可优于1.0%FS。
- ▲ 模糊理论结合传统PID方法，控制快速平稳。
- ▲ 先进的PID参数自整定方法，整定时间较一般仪表缩短1/3以上时间。
- ▲ 主控输出可选：继电器触点、SSR驱动电平、4-20mA、1-5V。
- ▲ 报警输出：最多二路，可自定义的报警触点输出方式。
- ▲ 应用范围：热流道、吹塑机等加热行业。

二、产品性能 Product Performance

- ▲ 输入规格(一台仪表即可兼容)：热电偶：K、E；热电阻：Pt100；模拟量(只支持模拟量输出型)：1-5V(4-20mA)、0-5V(0-20mA)。
- ▲ 测量范围：K(-50-1300/999°C)、J(-50-999°C)、E(-50-800°C)、Pt100(-50-650°C)。
- ▲ 测量精度：1.0级(±1.0%FS±1)。
- ▲ 采样速率：2次/秒。
- ▲ 调节方式：智能PID调节，依据不同的P、I、D参数可组成P(P=0即为位式)、PI、PD、PID调节。
- ▲ 主控可为继电器触点开关输出、触发固态继电器的逻辑电平、4-20mA、1-5V。
- ▲ 报警功能：上限、下限、偏差值、绝对值。
- ▲ 触点容量(阻性负载)：AC250V/3A、DC30V/3A。
- ▲ 电源：DC/AC100-240V、50/60Hz(其它电压需订做)。
- ▲ 电源功耗：≤3VA。
- ▲ 工作环境：温度-20-60°C，湿度≤85%RH无腐蚀场合。

三、型号命名 Type Designation

XMT①-7②③④-⑤

其它 Other: 其它备注信息 Other remarks information;
外壳接线类型: A: 可拔插式外壳; B: 接线式端子外壳;
Shell wiring type: A: Plug and unplug shell; B: Wired terminal housing;
主控制输出: 0: 二位式(继电器); 3: 位式PID(继电器通断比例); 8: PID调节直流电压输出(DC12V); 9: PID调节模拟量输出(例: 4-20mA、1-5V)。
Main control output: 0: Two position type (relay); 3: Body basket, slag, spear, deep parrot, shoulder curtain, rotary PID(Relay on-off ratio); 8: PID regulation of DC voltage output (DC12V); 9: PID regulation of analog output(Example: 4-20mA, 1-5V);
报警输出(辅助): 0: 无报警功能; 1: 一路上限报警默认为偏差值; 2: 两路报警输出上限默认为偏差值, 下限默认为绝对值;
Alarm output (auxiliary): 0: No alarm function; 1: Along the way, the alarm song believes that the deviation value is limited; 2: The default upper limit of the two alarm outputs is the deviation value, and the default lower limit is the absolute value;

型号 Type	XMTG	XMTD	XMTA	XMTE
外形尺寸(mm) Dimensions	48x48x86	72x72x76	96x96x76	48x96x76
开孔尺寸(mm) Dimensions	45x45	68x68	92x92	45x92

XMT-900系列



一、产品特点 Product Features

- ▲ 热电偶、热电阻输入及量程范围均可自由设置。
- ▲ 软件调零满度，冷端单独测温，放大器自稳零，显示精度可优于1.0%FS。
- ▲ 模糊理论结合传统PID方法，控制快速平稳。
- ▲ 先进的PID参数自整定方法，整定时间较一般仪表缩短1/3以上时间。
- ▲ 支持RS485(标准Modbus-RTU协议通讯(可选))。
- ▲ 应用范围：热流道、吹塑机、塑料等各种加热行业。

二、产品性能 Product Performance

- ▲ 输入规格(一台仪表即可兼容)：热电偶K、E、J；热电阻：Pt100。
- ▲ 测量范围：K(-50-1300°C)、J(-50-1000°C)、E(-50-1000°C)、Pt100(-50-650°C)。
- ▲ 测量精度：1.0级(±1.0%FS±1)。
- ▲ 采样速率：2次/秒。
- ▲ 调节方式：智能PID调节，依据不同的P、I、D参数可组成P(P=0即为位式)、PI、PD、PID调节。
- ▲ 主控可为继电器触点开关输出、触发固态继电器的逻辑电平、4-20mA、1-5V。
- ▲ 报警：最多两路输出，可独立自由设定为上限\下限\偏差值\绝对值，有上电免报警功能选择。
- ▲ 输出：继电器类：触点容量(阻性负载)：AC250V/3A，DC30V/3A。电压(逻辑电平)输出类：DC15V(最大)，最大带载电流60mA。电流输出类：4-20mA/0-20mA。最大负载阻抗：650欧。
- ▲ 工作电源：AC/DC100-240V(其它电压需订做)。
- ▲ 电源功耗：≤3VA。
- ▲ 工作环境：温度-20~60°C，湿度≤85%RH无腐蚀性场合。

三、型号命名 Type Designation

XMT①-⑨②③④⑤

其它 Other：产品其它备注信息 Other product remarks and information；

空：无其它功能 T：支持RS485通讯功能 A：支持RS485通讯功能 Message function A：

主控制输出：0：二位式(继电器)；3：位式PID(继电器通断比例)；8：PID调节直流电压输出(DC12V)；9：PID调节模拟量输出(例：4-20mA、1-5V)。

报警输出(辅助)：0：无报警功能；1：一路报警默认上限偏差值；2：两路报警一路为上限偏差值，一路为下限绝对值。

型号 Type	XMTG	XMTD	XMTA	XMTE
外形尺寸(mm) Dimensions	48x48x95	72x72x95	96x96x85	48x96x70
开孔尺寸(mm) Dimensions	45x45	68x68	92x92	45x92

XMT-7601/7602系列



一、产品特点 Product Features

- ▲ 3种热电偶输入及量程范围均可自由设置，显示精度可优于1.0%FS。
- ▲ 具有手动输出功能，即使热电偶有故障也不影响生产。
- ▲ 模糊理论结合传统PID方法，控制快速平稳。
- ▲ 具有除湿/软启动功能，具有自动控制状态下查看输出功率功能。
- ▲ 移相触发脉冲：可接双向可控硅、SSR-αDV、SKKT模块进行移相调压。
- ▲ 移相与过零触发自由设定，负载电源：50~60Hz通用。
- ▲ 应用范围：热流道、吹塑机、塑料等各种加热行业。

二、产品性能 Product Performance

- ▲ 输入规格(一台仪表即可兼容)：热电偶K、J、E。
- ▲ 测量范围：最大600度。
- ▲ 测量精度：1.0级(±1.0%FS±1)。
- ▲ 采样速率：2次/秒。
- ▲ 调节方式：智能PID调节，依据不同的P、I、D参数可组成PI、PD、PID调节。
- ▲ 触发信号输出：可控输出型：300mA；脉冲变压器输出型：8V/60mA。
- ▲ 报警功能：上、下限绝对值，上、下偏差值，可设置上电免报警(触点容量：AC250V 2A阻性负载)。
- ▲ 仪表电源：220VAC，50/60Hz，100-240VAC/DC。电源消耗：≤3W。
- ▲ 工作环境：温度-20~60°C，湿度≤85%RH无腐蚀性场合。

三、型号命名 Type Designation

XMT①-⑦②③④⑤

其它 Other：

输出类型：1. 两线SSR；2. 四线脉冲变压器输出(驱动SKKT,MTC用)；

报警输出(辅助)：0：无报警；1：1路报警；

主控制输出方式：6：移相调压或过零输出型仪表(默认为移相输出)。

型号 Type	XMTG	XMTE
外形尺寸(mm) Dimensions	48x48x112	48x96x90
开孔尺寸(mm) Dimensions	45x45	92x45

TC(B)系列



一、产品特点 Product Features

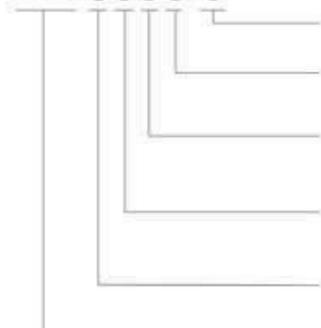
- ▲ 采用32位处理器，运算能力强大，控制算法先进。
- ▲ 采用16位Σ-AD，采样精度高，并能有效抑制工频干扰。
- ▲ 多种控制方法包括：PID控制、手动控制、上位机控制。
- ▲ 具有PID自整定功能。
- ▲ 使用隔离DC-DC变换器，独立热电偶输入和开关量输出接口抗干扰能力强。
- ▲ 模块内置测温元件，软件完成热电偶冷端温度补偿。
- ▲ 电源监视电路和看门狗电路，提高恶劣环境下可靠运行性。
- ▲ 应用范围：热流道、吹塑机、塑料等各种加热行业。

二、产品性能 Product Performance

- ▲ 传感器：K, J, E, N, S, R, T型热电偶，Pt100热电阻（两线制）。
- ▲ 分辨率：0.1℃。
- ▲ 电路精度：±0.2℃。
- ▲ 冷端补偿误差：<±2℃。
- ▲ 50Hz与60Hz工频干扰抑制：CMR>120dB, NMR>80dB。
- ▲ 电流输出：4-20mA/0-20mA，负载电压≤DC15V，开关量输出（阻性2A/220V），逻辑电平（共正，集电极开路输出），每路最大电流200mA，电压≤DC30V。
- ▲ 通讯：RS485<Modbus-RTU>，波特率可选1200-115200，通信地址可选1-63(最多)。
- ▲ 供电电源：DC24V；本机功耗：≤3W。
- ▲ 环境温度：0℃~60℃
- ▲ 相对湿度：≤85%无凝露。

三、型号命名 Type Designation

TC/B-①②③④-⑤



T: 仅支持热电偶输入； R: 仅支持热电阻输入； 其它：则另定；
T: Only supports thermocouple input; R: Only supports thermal resistance input; Other: to be determined separately;
辅助输出的输出类型：V为电压（晶体管集电极开路输出）。
Output type of auxiliary output: V is voltage (transistor collector open circuit output).
辅助输出的输出路数：2为2路辅助输出；4为4路辅助输出；6为6路主控输出；8则为8路辅助输出。
The number of output channels for auxiliary output: 2 is 2 auxiliary outputs; 4 is 4 auxiliary outputs; 6 represents 6 main control outputs; while 8 represents 8 auxiliary outputs;
主控输出的输出类型：V为电压（晶体管集电极开路输出），A为模拟量输出（4-20mA，0-20mA等）。
The output type of the main control output: V is voltage (transistor collector open circuit output), A is the analog output (4-20mA, 0-20mA, etc.).
主控输出的输出路数：2为2路主控输出；4为4路主控输出；6为6路主控输出；8则为8路主控输出。
The number of output channels for the main control output: 2 represents 2 main control outputs; 4 represents 4 main control outputs; 6 represents 6 main control outputs; while 8 represents 8 main control outputs;

型号 Type	TCB-2V2V	TC-4V4V	TC-4V4V(-T)	TC-8V4V(-K)	TC-8V8V(-T)
尺寸(mm) Size	42x108x65	116x91x45	65x108x65	145x91x45	110x108x55

ZKC系列



一、产品特点 Product Features

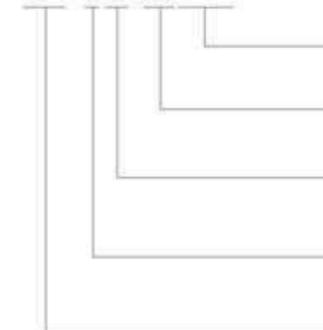
- ▲ 电压调整器是以单片机为核心，本组调压器具有极佳的稳压/稳功率性能。
- ▲ 具有良好的调整线性。
- ▲ 每个电压调整器可单独使用，也可组合使用。
- ▲ 调整器采用RS485总线接口及通用Modbus-RTU通讯协议，使接线更方便简洁，触摸屏调用更方便。
- ▲ 优势：具有精度高，抗震性强，可靠性好，抗干扰能力强等优点。
- ▲ 应用范围：广泛适用于吸塑机吹瓶机等机械设备的温度调节。

二、产品性能 Product Performance

- ▲ 负载电源输入：三相三线\三相四线输入(可选)，50\60Hz通用，(本机功耗功率小于5W)。
- ▲ 继电器触点容量，3A/250VAC(阻性负载)。
- ▲ 工作环境：温度0-60℃，相对湿度不超过85%的无腐蚀性气体场合。
- ▲ 移相调压最大导通角：不小于170°。
- ▲ 通讯：RS485两线总线式、通用标准Modbus-RTU协议。
- ▲ 两路模拟量输出，DC0-10V(每路输出电流不大于20mA)(ZKC-9系列)。

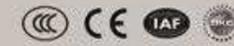
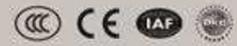
三、型号命名 Type Designation

ZKC-912-(P)220V

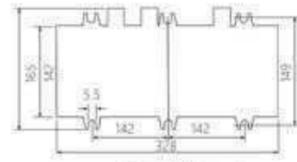


负载电压：“220V”：为220V电压；“380V”：为380V电压；
Load voltage: “220V”: For a voltage of 220V; “380V”: For 380V voltage;
L: 三相三线制； P: 三相四线制；
L: Three phase three wire system; P: Three phase four wire system;
多路组合类：12：共12路；18：共18路；
Multi channel combination class: 12: a total of 12 channels; 18: a total of 18 channels;
系列号：
Serial number;

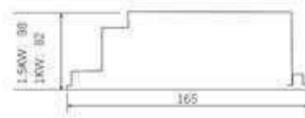
型号Type	ZKC-712(380V)	ZKC-812(380V)	ZKC-912(380V)
底面尺寸(mm) Dimensions	155x171x161	160x110x100	155x171x161
横截面尺寸(mm) Dimensions	171x52	110x68	171x52



ZK6系列



底部平面图尺寸
Bottom plan dimensions



横截面图尺寸
Dimensions of cross-sectional view

一、产品特点 Product Features

- ▲ 温度调整器是以单片机为核心，本组调整器具有较好的稳压/稳功性能。
- ▲ 具有PID模糊控制算法，可得到更准确的温度控制。
- ▲ 每个调整器可单独使用，也可组合使用。
- ▲ 调整器采用RS485总线接口及通用Modbus-RTU通讯协议，使接线更方便简洁，触摸屏调用更方便。
- ▲ 优势：具有精度高、抗震性强、可靠性好、抗干扰能力强等优点。
- ▲ 应用范围：广泛适用于吸塑机吹瓶机等机械设备的温度调节。

- ▲ The temperature regulator is based on a microcontroller, and this group of regulators has good voltage and power stability performance.
- ▲ Equipped with PID fuzzy control algorithm, it can achieve more accurate temperature control.
- ▲ Each adjuster can be used individually or in combination.
- ▲ The adjuster adopts RS485 bus interface and universal Modbus RTU communication protocol, making wiring more convenient and concise, and touch screen calling more convenient.
- ▲ Advantages: It has the advantages of high precision, strong earthquake resistance, good reliability and strong anti-interference ability.
- ▲ Application scope: Widely applicable for temperature regulation of mechanical equipment such as suction molding machines and blow molding machines.

二、产品性能 Product Performance

- ▲ 电源线输入：单相(AC220V±10%)或三相四线。(AC380V±10%)输入，50/60Hz通用。(本机消耗功率小于5W，总功率取决于负载功率)。
- ▲ 每路独立自带保险丝保护装置(ZK6-15-1KW，保险丝容量10A，250V；ZK6-15-1.5KW，保险丝容量13A，250V；)，保险丝断路保护指示功能。
- ▲ 输出电压：AC0-220V，移相调压最大导通角：不小170°。
- ▲ 输出功率(驱动阻性负载)：单路输出最小功率不小于100W，最大通风散热条件良好情况下功率：分“1000W”和“1500W”两个系列。
- ▲ 工作环境：温度0-60°C，相对湿度不超过85%的无腐蚀性气体场合。
- ▲ 通讯：RS485两线总线式，通用标准Modbus-RTU协议。

- ▲ Power cord input: single-phase (AC220V±10%) or three-phase four wire. (AC380V±10%) input, universal at 50/60Hz; (local power consumption is less than 5W, total power depends on load power).
- ▲ Each circuit is equipped with an independent fuse protection device (ZK6-15-1KW, fuse capacity 10A, 250V; ZK6-15-1.5KW, Fuse capacity 13A, 250V), Fuse open circuit protection indication function.
- ▲ Output voltage: AC0-220V, Maximum conduction angle of phase-shifting voltage regulation: not less than 170°.
- ▲ Output power (driving resistive load): The minimum power output of a single channel is not less than 100W, and the maximum power (under good ventilation and heat dissipation conditions) is divided into "1000W" and "1500W" (two series).
- ▲ Working environment: Non corrosive gas environment with a temperature of 0-60 °C and a relative humidity not exceeding 85%
- ▲ Communication: RS485 two-wire bus type, universal standard Modbus-RTU protocol.

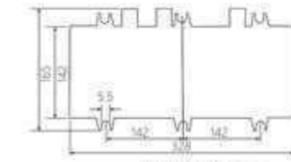
三、型号命名 Type Designation

ZK6-15-□□□□+/-□

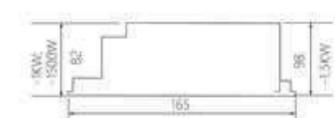
- 其它信息，例：升级序号、订做功能代号等。
Other information, such as upgrade serial number, customized function code, etc.
- 可驱动阻性负载的功率数：“650W”：为650W；“1KW”：为1000W；“1.5KW”：为1500W；
Number of powers that can drive resistive loads: “650W”: For 650W; “1KW”: For 1000W; “1.5KW”: For 1500W;
- 组合温度调整器级数：“15”即为15路；
Combination temperature regulator stage: “15” means 15 channels;
- 一体化多路组合温度调整器系列号；
Integrated multi-channel combination temperature regulator series number;

型号Type	ZK6-15-1KW	ZK6-15-1.5KW
底面尺寸(mm) Dimensions	328x165x149	328x165x149
横截面尺寸(mm) Dimensions	165x82	165x98

ZK7系列



底部平面图尺寸
Bottom plan dimensions



横截面图尺寸
Dimensions of cross-sectional view

一、产品特点 Product Features

- ▲ 温度调整器是以单片机为核心，本组调整器具有较好的稳压/稳功性能。
- ▲ 具有良好的调整线性。
- ▲ 每个电压调整器可单独使用，也可组合使用。
- ▲ 调整器采用RS485总线接口及通用Modbus-RTU通讯协议使接线更方便简洁，触摸屏调用更方便。
- ▲ 优势：具有精度高、抗震性强、可靠性好、抗干扰能力强等优点。
- ▲ 应用范围：广泛适用于吸塑机吹瓶机等机械设备的温度调节。

- ▲ The temperature regulator is based on a microcontroller, and this group of regulators has good voltage and power stability performance.
- ▲ Has good adjustment linearity.
- ▲ Each voltage regulator can be used individually or in combination.
- ▲ The adjuster adopts RS485 bus interface and universal Modbus RTU communication protocol to make wiring more convenient and concise, and touch screen calling more convenient.
- ▲ Advantages: It has the advantages of high precision, strong earthquake resistance, good reliability, and strong anti-interference ability.
- ▲ Application scope: Widely applicable for temperature regulation of mechanical equipment such as suction molding machines and blow molding machines.

二、产品性能 Product Performance

- ▲ 电源线输入：单相(AC220V±10%)或三相四线。(AC380V±10%)输入，50/60Hz通用。(本机消耗功率小于5W，总功率取决于负载功率)。
- ▲ 每路独立自带保险丝保护装置(ZK7-15-1KW，保险丝容量10A，250V；ZK7-15-1.5KW，保险丝容量13A，250V；)，保险丝断路保护指示功能。
- ▲ 输出电压：AC0-220V，移相调压最大导通角：不小170°。
- ▲ 输出功率(驱动阻性负载)：单路输出最小功率不小于100W，最大通风散热条件良好情况下功率：分“1000W”和“1500W”两个系列。
- ▲ 工作环境：温度0-60°C，相对湿度不超过85%的无腐蚀性气体场合。
- ▲ 通讯：RS485两线总线式，通用标准Modbus-RTU协议。

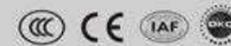
- ▲ Power cord input: single-phase (AC220V±10%) or three-phase four wire. (AC380V±10%) input, universal at 50/60Hz; (local power consumption is less than 5W, total power depends on load power).
- ▲ Each circuit is equipped with an independent fuse protection device (ZK7-15-1KW, fuse capacity 10A, 250V; ZK7-15-1.5KW, Fuse capacity 13A, 250V), Fuse open circuit protection indication function.
- ▲ Output voltage: AC0-220V, Maximum conduction angle of phase-shifting voltage regulation: not less than 170°.
- ▲ Output power (driving resistive load): The minimum power output of a single channel is not less than 100W, and the maximum power (under good ventilation and heat dissipation conditions) is divided into "1000W" and "1500W" (two series).
- ▲ Working environment: Non corrosive with a temperature of 0-60 °C and a relative humidity not exceeding 85%Gas environment.
- ▲ Communication: RS485 two-wire bus type, universal standard Modbus-RTU protocol.

三、型号命名 Type Designation

ZK7-15-□□□□-□

- 其它信息；
Other information;
- 驱动阻性负载功率：“650W”：为650W；“1KW”：为1000W；“1.5KW”和“1500W”：为1500W。
Drive resistive load power: “650W”: 650W; “1KW”: 1000W; “1.5KW” and “1500 (W)”: 1500W Combination;
- 调整器级数：“12”即为12路；“15”即为15路；
voltage regulator stage: “12” means 12 channels; “15” means 15 channels;
- 一体化多路组合电压调整器系列号；
Integrated multi-channel combination temperature regulator series number;

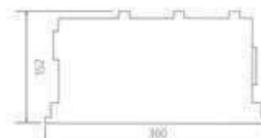
型号Type	ZK7-12-650W	ZK7-12-1.5KW	ZK7-15-1KW/1500W	ZK7-15-1.5KW
底面尺寸(mm) Dimensions	338x155x147	338x155x147	328x165x149	328x165x149
横截面尺寸(mm) Dimensions	155x55	155x73	165x82	165x98



ZK62系列



底部平面图尺寸
Bottom plan dimensions



横截面图尺寸
Dimensions of cross-sectional view

一、产品特点 Product Features

- ▲ 温度调整器是以单片机为核心，本组调整器具有较好的温度调整性。
- ▲ 具有PID模糊控制算法，可得到更准确的温度控制。
- ▲ 调整器具有联动功能，既可作主控制输出也可受控。
- ▲ 调整器采用RS485总线接口及通用Modbus-RTU通讯协议，使接线更方便简洁，触摸屏调用更方便。
- ▲ 优势：具有精度高、抗震性强、可靠性好、抗干扰能力强等优点。
- ▲ 应用范围：广泛适用于吸塑机设备、箱包机设备等机械设备温度调节。

- ▲ The temperature regulator is based on a microcontroller, and this group of regulators has good temperature performance Degree adjustability.
- ▲ Equipped with PID fuzzy control algorithm, it can achieve more accurate temperature control.
- ▲ The adjuster has a linkage function, which can be used as the main control output or controlled.
- ▲ The adjuster adopts RS485 bus interface and universal Modbus RTU communication protocol Discussion makes wiring more convenient and concise, and touch screen calling more convenient.
- ▲ Advantages: High precision, strong seismic resistance, good reliability, and anti-interference ability Strong advantages.
- ▲ Application scope: Widely applicable to mechanical equipment such as suction molding machines and luggage machines Prepare temperature regulation.

二、产品性能 Product Performance

- ▲ 电源线输入：单相(AC220V±10%)或三相四线(AC380V±10%)输入，50/60Hz通用，电源功率取决于负载功率。
- ▲ 每路独立自带保险丝保护装置(保险丝容量10A、250V)，保险丝断路保护指示功能。
- ▲ 一路温度测量，支持K(-50-1300°C)、E(-50-1000°C)、J(-50-1000°C)、N(-50-1000°C)型热电偶，可切换，默认K型。
- ▲ 输出设置：0-1000(温控模式，调压模式下设置0-220有效)，单路输出最大功率(阻性负载，通风散热条件良好情况下)最大1000W。
- ▲ 过零调功和移相调功两种模式，出厂默认为过零调功。移相调压工作模式下，其移相调压最大导通角不小于170°。
- ▲ 工作环境：温度0-50°C，相对湿度不超过85%的无腐蚀性气体场合。
- ▲ 通讯：RS485两线总线式，通用标准MODBUS-RTU协议，理论上支持最多可99台同总线通讯。

- ▲ Each circuit is independently equipped with a built-in fuse protection device (fuse capacity: 10A, 250V), Fuse circuit breaker protection indication function.
- ▲ Continuous temperature measurement, supports K-type (-50 to 1300°C) and E-type (-50 to 1000°C), Type J (-50-1000°C) and Type N (-50-1000°C) thermocouples, switchable, default to Type K.
- ▲ Output Setting: 0-1000 (Effective range 0-220 in temperature control mode and voltage regulation mode), Maximum single-output power (resistive load, under favorable ventilation and cooling conditions): Maximum 1000W.
- ▲ Two modes are available: zero-crossing phase control and phase shifting control, with zero-crossing phase control as the factory default in the phase-shift voltage regulation working mode, the maximum conduction angle of phase-shift voltage regulation shall not be less than 170 degrees. Two-wire bus-type, universal standard MODBUS-RTU protocol, Theoretically, it supports up to 99 devices communicating on the same bus.
- ▲ Working Environment: Temperature 0-50°C, relative humidity not exceeding 85% in a non-corrosive atmosphere Gas environments.

三、型号命名 Type Designation

ZK62-15-1KW-□

其它信息，例：升级序号、订做功能代号等，常规产品为空白；
Other information, e.g., upgrade sequence numbers, custom feature codes, etc. For standard products, leave blank.

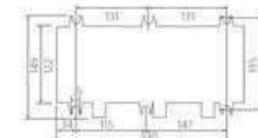
可驱动阻性负载的最大功率值1KW,即为1千瓦；
The maximum power value that can drive a resistive load: 1KW, which is 1 kilowatt;

一体化多路组合温度调整器系列型号；
Integrated Multi-Channel Combination Temperature Regulator Series Model;

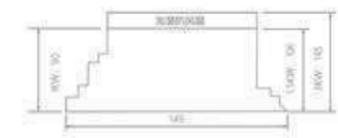
组合电压调整器级数“15”即为15路；
Combined voltage regulator stages: "15" means 15 circuits;

型号Type	ZK62-15-1KW
底面尺寸(mm) Dimensions	360x65x46
横截面尺寸(mm) Dimensions	360x152

ZK72系列



底部平面图尺寸
Bottom plan dimensions



横截面图尺寸
Dimensions of cross-sectional view

一、产品特点 Product Features

- ▲ 电压调整器是以单片机为核心，本组调整器具有较好的稳压/稳性能。
- ▲ 具有良好的调整线性。
- ▲ 每个电压调整器可单独使用，也可组合使用。
- ▲ 调整器采用RS485总线接口及通用Modbus-RTU通讯协议使接线更方便简洁，触摸屏调用更方便。
- ▲ 具有“移相增减目标值”设置功能，可明显改善移相前后的温度差异大的现象。
- ▲ 优势：具有抗震性强、可靠性好、抗干扰能力强等优点。
- ▲ 应用范围：广泛适用于吸塑机等机械设备的温度调节。

- ▲ The voltage regulator is based on a microcontroller, and this group of regulators has good stability Pressure/stability performance.
- ▲ Has good adjustment linearity.
- ▲ Each voltage regulator can be used individually or in combination.
- ▲ The adjuster adopts RS485 bus interface and universal Modbus RTU communication protocol Make the wiring more convenient and concise, and the touch screen call more convenient.
- ▲ It has the function of setting "target values for furnace relocation", which can significantly improve the performance before and after furnace relocation The phenomenon of large temperature differences;
- ▲ Advantages: It has strong seismic resistance, good reliability, and strong anti-interference ability.
- ▲ Application scope: Widely applicable for temperature regulation of mechanical equipment such as vacuum forming machines.

二、产品性能 Product Performance

- ▲ 电源线输入：单相(AC220V±10%)或三相四线(AC380V±10%)输入，50/60Hz通用(本机消耗功率小于5W,总功率取决于负载功率)。
- ▲ 每路独立自带保险丝保护装置(保险丝容量根据功率不同有10A/250V/13A/250V和20A/250V三种)，并有保险丝开路指示功能。
- ▲ 移相调压和过零调功输出模式可选(默认为移相调压)；输出电压：AC0-220V，移相调压最大导通角：不小于170°，过零调功0-100%。
- ▲ 一路温度测量，支持K(-50-1300°C)、E(-50-1000°C)、J(-50-1000°C)、N(-50-1000°C)型热电偶，可切换默认K型，测量精度±1%FS。
- ▲ 输出功率(驱动阻性负载)单路输出最小功率不小于100W，最大(通风散热条件良好情况下)功率分“1000W”、“1500W”和“3000W”(三个系列)。
- ▲ 工作环境：温度0-50°C，相对湿度不超过85%的无腐蚀性气体场合。

- ▲ Power cord input: single-phase (AC220V±10%) or three-phase four wire. (AC380V±10%) input, universal at 50/60Hz, (local power consumption is less than 5W, total power depends on load power).
- ▲ Each circuit is equipped with an independent fuse protection device (ZK7-15-1KW, fuse capacity 10A, 250V; ZK7-15-1.5KW, Fuse capacity 13A, 250V.). Fuse open circuit protection indication function.
- ▲ Output voltage: AC0-220V. Maximum conduction angle of phase-shifting voltage regulation: not less than 170°.
- ▲ Output power (driving resistive load): The minimum power output of a single channel is not less than 100W, and the maximum power (under good ventilation and heat dissipation conditions) is divided into "1000W" and "1500W" (two series).
- ▲ Output power (driving resistive load) The minimum power output of a single channel shall not be less than 100W, Maximum (under good ventilation and heat dissipation conditions) power: divided into "1000W" and "1500W" And "3000W" (three series);
- ▲ Working environment: Non corrosive with a temperature of 0-50 °C and a relative humidity not exceeding 85% Gas environment;

三、型号命名 Type Designation

ZK72-12-□-□

空时为常规产品,有其它代码则产品其它信息；
The product is a standard item; other product details are available if other codes are present;

驱动阻性负载功率：“1KW”为1000W，“1.5KW”为1500W，“3KW”为3000W；
Driving resistive load power: "1KW" is 1000W, "1.5KW" is 1500W, and "3KW" is 3000W;

组合电压调整器级数：“12”即为12路输出，“15”即为15路输出；
Number of series-connected voltage regulators: "12" indicates 12 output channels, "15" indicates 15 output channels;

一体化多路组合电压调整器系列号；
Integrated Multi-Channel Combinatorial Voltage Regulator Series Number;

型号Type	ZK72-12-1KW	ZK72-12-1.5KW	ZK72-12-3KW
底面尺寸(mm) Dimensions	330x122x135		
横截面尺寸(mm) Dimensions	149X90	149X106	149X145



热电偶、热电阻系列



一、产品规格 Product Model

名称 Name	型号 Type	分度号 Graduation Mark	结构特征 Structure Character
压簧式热电偶 Compression Spring Type Thermocouple	WRNT-01	E(EA-2)	固定螺纹 Fixed screw thread
	WRNT-01	K(EU-2)	M12x1.5 M10x1.5 M8x1.5
	仿进口 Imitation Imports	E, K, J	英制螺纹 British screw thread
螺钉式热电偶 Screw Nail Type Thermocouple	RWNT-02	E(EA-2)	固定螺纹 Fixed screw thread
	RWNT-02	K(EU-2)	M6x1 M8x1
	仿进口 Imitation Imports	E, K, J	英制螺纹 British screw thread
探头式热电偶 Probe Type Thermocouple	WRNT-03	E(EA-2)	固定螺纹 Fixed screw thread
	WRNT-03	K(EU-2)	紫铜杆 Red copper pole Φ7
	仿进口 Imitation Imports	E, K, J, Pt100	英制螺纹 British screw thread
探头式热电阻 Probe Type Thermal Resistance	WZCT-03	Cu50 G	固定螺纹 Fixed screw thread
	WZPT-03	Pt100, Pt10	紫铜杆 Red copper pole Φ7

二、型号命名 Type Designation



HN-DP系列



一、产品特点 Product Features

- ▲ 经济型的数字式显示仪表。
- ▲ 具有测量精度高、稳定性好、读数直观、抗干扰能力强等特点。
- ▲ 应用范围：可广泛应用于各种电压等级的城变变电站、发电厂、企/事业单位变配电室、智能大厦/小区、冶金、石化、机场、铁路、港口、医院、学校、市政等诸多领域。

- ▲ Economical digital display instrument.
- ▲ It has the characteristics of high measurement accuracy, good stability, intuitive reading, and strong anti-interference ability.
- ▲ Application scope: It can be widely used in various voltage levels of urban and rural substations, power plants, power distribution rooms of enterprises/institutions, intelligent buildings/communities, metallurgy, petrochemicals, airports, railways, ports, hospitals, schools; municipal and many other fields.

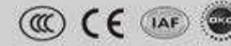
二、产品性能 Product Performance

- ▲ 电压表：直接测量：DC、AC0~600V。外附装置：AC0~9999KV(外附*/100V互感器)。
- ▲ 电流表：直接测量：DC、AC0~5A；外附装置：DC、AC0~9999KA(直流外附*/75mV分流器；交流外附*/5A互感器)。
- ▲ 类比表：模拟量直接输入：DC0~10V、0~20mA等；最大显示：-1999~9999。
- ▲ 温度表：对应各分度号全量程。
- ▲ 准确度：±0.5%FS±2个字(温度表±1%FS±2个字)。
- ▲ 采样速率：约3次/s；显示方式：四位LED数码管显示；分辨率：末位数一个半字。
- ▲ 辅助电源：AC220V±10%(其它电源可订做)；辅助电源功耗：<3VA。
- ▲ 溢出指示：正超出显示 HHHH，负超出显示 LLLL。
- ▲ 直流表极性指示：负信号自动显示“-”号，正信号不显示。
- ▲ 工作环境：温度-20~60℃，湿度≤85%RH的无腐蚀性气体场合。

- ▲ Voltage meter: direct measurement: DC, AC0~600V External device: AC 0~9999KV (external */100V transformer).
- ▲ Ammeter: Direct measurement: DC, AC0~5A External device: DC, AC0~9999KA (DC, external */75mV; Diverter, AC external */5A transformer).
- ▲ Analogy table: Analog input directly: DC0~10V, 0~20mA, etc; Maximum display: -1999~9999.
- ▲ Temperature gauge: corresponding to the full range of each division mark
- ▲ Accuracy: ±0.5% FS± 2 words (thermometer+1% FS± 2 words).
- ▲ Sampling rate: about 3 times/s; Display mode: Four digit LED digital display; Resolution: Last digit of one word.
- ▲ Auxiliary power supply: AC220V± 10% (other power supplies can be customized); Auxiliary power consumption: ≤ 3VA.
- ▲ Overflow indication: HHHH is displayed for positive overflow, LLLL is displayed for negative overflow.
- ▲ Polarity indication of DC meter: Negative signal automatically displays a "-" sign, positive signal does not display.
- ▲ Working environment: Non corrosive gas environment with temperature of -20~60 °C and humidity ≤ 85% RH.

三、型号命名 Type Designation





HN-SX系列



一、产品特点 Product Features

- ▲ 经济型的数字式显示仪表。
▲ 具有测量精度高、稳定性好、读数直观、抗干扰能力强等特点。
▲ 应用范围：可广泛应用于各种电压等级的城乡变电站、发电厂、企/事业单位变配电室、智能大厦/小区、冶金、石化、机场、铁路、港口、医院、学校、市政等诸多领域。
- ▲ Economical digital display instrument.
▲ It has the characteristics of high measurement accuracy, good stability, intuitive reading, and strong anti-interference ability.
▲ Application scope: It can be widely used in various voltage levels of urban and rural substations, power plants, power distribution rooms of enterprises/institutions, intelligent buildings/communities, metallurgy, petrochemicals, airports, railways, ports, hospitals, schools, municipal and many other fields.

二、产品性能 Product Performance

- ▲ 电压表：直接测量：DC、AC0-600V。
外附装置：AC0-9999KV(外附*/100V互感器)。
- ▲ 电流表：直接测量：DC、AC0-5A；外附装置：DC、AC0-9999KA(直流外附*/75mV;分流器、交流外附*/5A互感器)。
- ▲ 类比表：模拟量直接输入：DC0-10V、0-20mA等;最大显示：-1999-9999,注意,HN120SX最大显示-199-999。
- ▲ 温度表：对应各分度号全量程。
- ▲ 准确度：±0.5%FS±2个字(温度表±1%FS±2个字)。
- ▲ 采样速率：约3次/s;显示方式：四位LED数码管显示;分辨率：末位数字一个字。
- ▲ 辅助电源：AC220V±10%(其它电源可订做);辅助电源功耗：≤3VA。
- ▲ 溢出指示：正超出显示 HHHH, 负超出显示 LLLL。
- ▲ 直流表极性指示：负信号自动显示“-”号, 正信号不显示。
- ▲ 工作环境：温度-20-60℃, 湿度≤85%RH的无腐蚀性气体场合。
- ▲ Voltage meter: direct measurement: DC, AC0-600V External device: AC 0-9999KV (external */100V transformer).
- ▲ Ammeter: Direct measurement: DC, AC0-5A External device: DC, AC0-9999KA (DC external */75mV; Diverter, AC external */5A transformer).
- ▲ Analogy table: Analog input directly: DC0-10V, 0-20mA, etc; Maximum display: -1999-9999, note that HN120SX has a maximum display of -1999-999.
- ▲ Temperature gauge: corresponding to the full range of each division mark.
- ▲ Accuracy: ± 0.5% FS±2 words (thermometer+1% FS±2 words).
- ▲ Sampling rate: about 3 times/s; Display mode: Four digit LED digital display; Resolution: Last digit of one word.
- ▲ Auxiliary power supply: AC220V±10% (other power supplies can be customized); Auxiliary power consumption: ≤3VA.
- ▲ Overflow indication: HHHH is displayed for positive overflow, LLLL is displayed for negative overflow.
- ▲ Polarity indication of DC meter: Negative signal automatically displays a "-" sign, positive signal does not display.
- ▲ Working environment: Non corrosive gas environment with temperature of -20-60 °C and humidity ≤ 85% RH.

三、型号命名 Type Designation

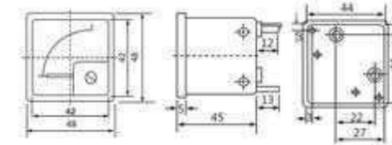
- HN①SX④-②/③-④-⑤
- 其它, 如订做类编号等。 Others, such as customized class codes, etc.
 - 仪表工作电源: 如220VAC, 12, 24等。 Instrument working power supply: such as 220VAC, 12, 24, etc.
 - 输入信号: 如AC500V, AC5A, DC0-10V等。 Input signals: such as AC500V, AC5A, DC0-10V, etc.
 - 显示范围: 如1500rpm, 50.0Hz, 500V, 100.0A等。 Display range: such as 1500rpm, 50.0Hz, 500V, 100.0A, etc.
 - 仪表外形选择: 如下表格所述: Instrument appearance selection: as described in the table below:

型号 Type	HN-72SX	HN-80SX	HN-24SX	HN-120SX
外形尺寸(mm) Dimensions	72X36X48	80X42X50	96X48X98	240X120X110
开孔尺寸(mm) Dimensions	69X34	73X40	91X45	230X115

HN-48



外形/开孔尺寸(毫米)
Appearance and opening size



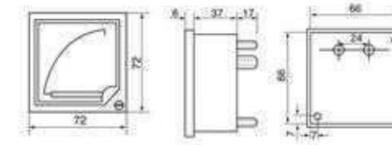
外形尺寸 External dimensions 48x48
开孔尺寸 Hole size 45x45

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
COSΦ 功率因数表 Single Phase Power Factor Meter;
Hz 频率表 Frequency Meter;
等级 Class: 1.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 75A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 75A in addition;
DCV: 1-600V, 750, 1000, 1500V, 附 FJ-17; 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 75A以上配电流互感器, 过载 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;
COSΦ: 220V/5A, 380V/5A;
Hz: 45-55, 55-65Hz; 电压: 220, 380;

HN-72/722



外形/开孔尺寸(毫米)
Appearance and opening size



外形尺寸 External dimensions 72x72
开孔尺寸 Hole size 68x68

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
COSΦ 功率因数表 Single Phase Power Factor Meter;
Hz 频率表 Frequency Meter;
等级 Class: 1.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 75A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 75A in addition;
DCV: 1-600V, 750, 1000, 1500V, 附 FJ-17; 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 75A以上配电流互感器, 过载 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;
COSΦ: 220V/5A, 380V/5A;
Hz: 45-55, 55-65Hz; 电压: 220, 380V;

HN-6L2/6C2



外形/开孔尺寸(毫米)
Appearance and opening size



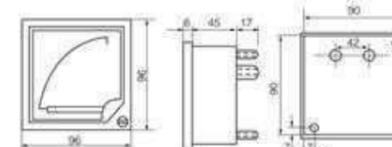
外形尺寸 External dimensions 82x82
开孔尺寸 Hole size 78x78

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
COSΦ 功率因数表 Single Phase Power Factor Meter;
Hz 频率表 Frequency Meter;
等级 Class: 1.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 75A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 75A in addition;
DCV: 1-600V, 750, 1000, 1500V, 附 FJ-17; 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 75A以上配电流互感器, 过载 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;
COSΦ: 220V/5A, 380V/5A;
Hz: 45-55, 55-65Hz; 电压: 220, 380V;

HN-96



外形/开孔尺寸(毫米)
Appearance and opening size



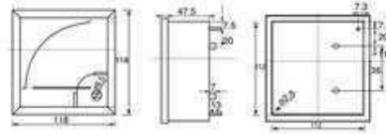
外形尺寸 External dimensions 96x96
开孔尺寸 Hole size 92x92

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
COSΦ 功率因数表 Single Phase Power Factor Meter;
Hz 频率表 Frequency Meter;
等级 Class: 1.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 75A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 75A in addition;
DCV: 1-600V, 750, 1000, 1500V, 附 FJ-17; 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 75A以上配电流互感器, 过载 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;
COSΦ: 220V/5A, 380V/5A;
Hz: 45-55, 55-65Hz; 电压: 220, 380V;



HN-42C3/42L6

外形/开孔尺寸(毫米)
Appearance and opening size

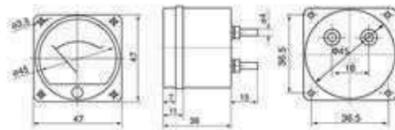


外形尺寸 External dimensions 118x118
开孔尺寸 Hole size 114x114

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
COSΦ 功率因数表 Single Phase Power Factor Meter;
Hz 频率表 Frequency Meter;
等级 Class: 1.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 75A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 75A in addition;
DCV: 1-600V, 750, 1000, 1500V, 附 FJ-17; 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 75A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;
COSΦ: 220V/5A, 380V/5A;
Hz: 45-55, 55-65HZ; 电压 220, 380V.

HN-45

外形/开孔尺寸(毫米)
Appearance and opening size

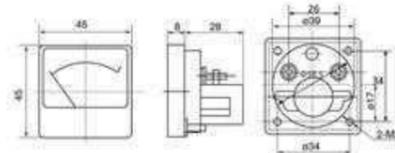


外形尺寸 External dimensions 47x47
安装尺寸 Installation size 36.5x36.5
开孔尺寸 Dimension Φ47

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-91C4/91L4

外形/开孔尺寸(毫米)
Appearance and opening size

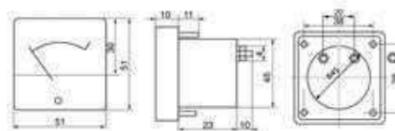


外形尺寸 External dimensions 45x45
安装尺寸 Installation size 34x34
开孔尺寸 Dimension Φ40

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-50

外形/开孔尺寸(毫米)
Appearance and opening size

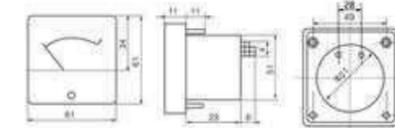


外形尺寸 External dimensions 51x51
安装尺寸 Installation size 38x38
开孔尺寸 Dimension Φ47

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-60

外形/开孔尺寸(毫米)
Appearance and opening size

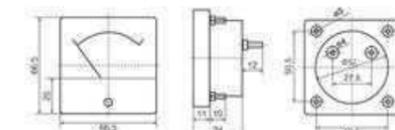


外形尺寸 External dimensions 61x61
安装尺寸 Installation size 49x49
开孔尺寸 Dimension Φ52

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-65

外形/开孔尺寸(毫米)
Appearance and opening size

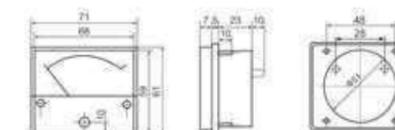


外形尺寸 External dimensions 66.5x66.5
安装尺寸 Installation size 50.5x50.5
开孔尺寸 Dimension Φ54

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-670

外形/开孔尺寸(毫米)
Appearance and opening size

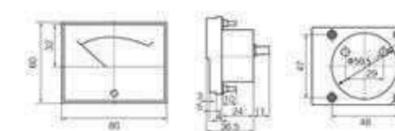


外形尺寸 External dimensions 71x61
安装尺寸 Installation size 48x48
开孔尺寸 Dimension Φ52

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

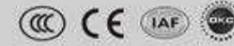
HN-680

外形/开孔尺寸(毫米)
Appearance and opening size



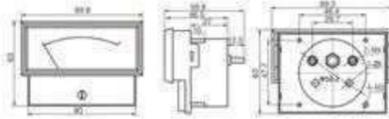
外形尺寸 External dimensions 80x60
安装尺寸 Installation size 48x47
开孔尺寸 Dimension Φ52

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;



HN-680-K

外形/开孔尺寸(毫米)
Appearance and opening size



外形尺寸 External dimensions 89.8x63
安装尺寸 Installation size 48.4x47.7
开孔尺寸 Dimension $\Phi 52$

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-80

外形/开孔尺寸(毫米)
Appearance and opening size

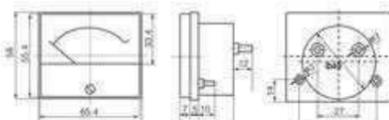


外形尺寸 External dimensions 81x81
安装尺寸 Installation size 66x66
开孔尺寸 Dimension $\Phi 65$

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-85

外形/开孔尺寸(毫米)
Appearance and opening size

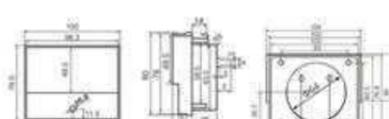


外形尺寸 External dimensions 68x58
安装尺寸 Installation size 51
开孔尺寸 Dimension $\Phi 51$

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-100S

外形/开孔尺寸(毫米)
Appearance and opening size

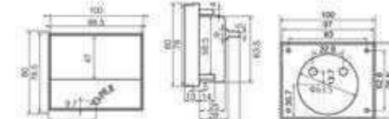


外形尺寸 External dimensions 100x78.5
安装尺寸 Installation size 83x62.5
开孔尺寸 Dimension $\Phi 66$

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-100S-K

外形/开孔尺寸(毫米)
Appearance and opening size

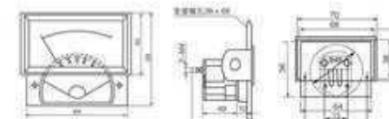


外形尺寸 External dimensions 100x80
安装尺寸 Installation size 83x62.8
开孔尺寸 Dimension $\Phi 65$

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-85L17

外形/开孔尺寸(毫米)
Appearance and opening size

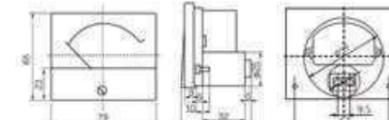


外形尺寸 External dimensions 64x59
安装尺寸 Installation size 49
开孔尺寸 Dimension $\Phi 50$

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-69L9/69L13

外形/开孔尺寸(毫米)
Appearance and opening size

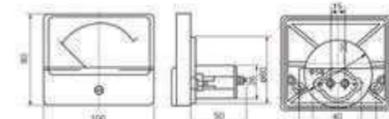


外形尺寸 External dimensions 79x65
安装尺寸 Installation size 62
开孔尺寸 Dimension $\Phi 60$

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

HN-44C2/44L1

外形/开孔尺寸(毫米)
Appearance and opening size



外形尺寸 External dimensions 100x80
安装尺寸 Installation size 68
开孔尺寸 Dimension $\Phi 60$

名称 Description:
直流电流表 DCA Meter; 直流电压表 DCV Meter;
交流电流表 ACA Meter; 交流电压表 ACV Meter;
等级 Class: 2.5
测量范围 Measuring Range:
DCA: 1-500mA, 1-50A, 50A以上外附 FL-2 分流器;
Attach FL-2 Shunt over 50A in addition;
DCV: 1-600, 600V以上电压配 FJ-17 定值电阻器;
Attach FJ-17 Constant Resistor;
ACA: 0.5-50A; 50A以上配电流互感器, 过载 0.5A, 5A;
Equipped with current transformers above 75A, overload 0.5A, 5A;
ACV: 3-600V 展开 80-120V, 180-220V, 300-450V, Expand 80-120V, 180-220V, 300-450V;

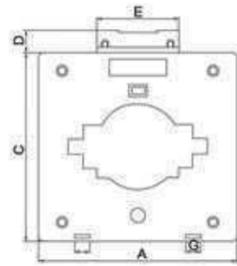
MSQ(出口型)系列电流互感器 Series Current Transformers



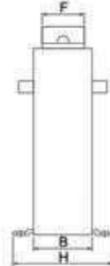
MSQ-30(Small)
BH-0.66-30(Small)



MSQ-60
BH-0.66-60



MSQ结构图 Outing drawing of MSQ



一、技术参数 Technical Data

- | | |
|--|--|
| <ul style="list-style-type: none"> ▲ 电流互感器根据IEC-185标准生产 ▲ 精度等级: 0.5~1.0(见表格) ▲ 额定电压: 600V(见表格) ▲ 额定二次电流: 5A(或1A) ▲ 保安系数: FS5 ▲ 工作温度范围: -20°C~+65°C ▲ 外壳由ABS塑料材料制造 ▲ 二次电流输出的端子有端子保护盖 ▲ 用于互感器安装的配件有三件 | <ul style="list-style-type: none"> ▲ The current transformer is produced according to the IEC-185 standard ▲ Accuracy level: 0.5~1.0 (see table) ▲ Rated voltage: 600V (see table) ▲ Rated secondary current: 5A (or 1A) ▲ Security coefficient: FS5 ▲ Working temperature range: -20°C~+65°C ▲ The shell is made of ABS plastic material ▲ The terminal for secondary current output has a terminal protection cover ▲ There are three accessories used for the installation of transformers |
|--|--|

二、产品规格 Product Model

单位 Unit: mm

型号 Type	A	B	C	D	E	F	G	H
MSQ-30(Small)	60	36	67	17	60	31	10	59
MSQ-30	75	43	82	17	60	31	10	71
MSQ-40	75	43	82	17	60	31	10	71
MSQ-60	101	44	111	17	60	31	10	71
MSQ-100	145	45	139	17	60	31	10	72
MSQ-130	196	46	210	17	60	34	11	72

型号 Type	额定电流一次/二次 Rated Current(A) Primary/Secondary	汇流排安装孔尺寸 Busbar Hole Dimension(mm)	额定负载 Rated Burden(VA)	精度等级 Accuracy Class	额定电压 Rated Voltage (V)	额定频率 Rated Frequency (Hz)
MSQ-30	30/5A-300/5A	30X10	1.5-2.5	3.0-0.5	600	50/60
MSQ-40	150/5A-800/5A	40X10	5-10	1.0-0.5	600	50/60
MSQ-60	400/5A-1200/5A	60X20	5-10	1.0-0.5	600	50/60
MSQ-100	800/5A-3000/5A	100X10	15	1.0-0.5	600	50/60
MSQ-130	1500/5A-5500/5A	130X10	15	1.0-0.5	600	50/60

Enterprise qualification

www.aoyidq.cn

企业资质

奥仪以质量立业, 严把质量关, 不断完善以客户为中心的管理模式, 实行质量多元化管理。用先进可靠的质量检测设备进行完善的产品性能检测。

AOYI is strictly controlling the product quality and unceasingly improving the customer-oriented management. We carry out complete product performance inspection with the advanced and reliable testing and inspection machine.



HuangShan AOYI Electric CO.,LTD.