



## 固态继电器 Solid State Relay

|  |     |
|--|-----|
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Motor  
Drives



Power  
Quality

AC | DC

Power  
Supplies

## SOLID STATE RELAY | 固态继电器

### Features

- Current:0.5A~400A
- Voltage:12V~680V
- Small General outline
- Vacuum Weld Technics
- Led indicator showing "ON" or "OFF"
- Protect Panel
- IEC standard
- Input & output type could chose  
DC/AC AC/AC DC/DC

### Applications

- AC DC switch & Temp control
- Automate Control
- CNC machinery
- Packaging machinery
- Textile machinery
- Glass machinery
- Plastic machinery

### Ordering Information Table

|             |   |   |   |                          |    |   |   |
|-------------|---|---|---|--------------------------|----|---|---|
| Device Code | SSR   | - | D | 48                       | 40 | R | 1 |
|             | ①   |   | ② | ③                        | ④  | ⑤ | ⑥ |
| 1           | -ZENLI Solid state relay                            |   |   |                          |    |   |   |
| 2           | -D=DC to AC (DC3-32V)                               |   |   | A=AC to AC               |    |   |   |
|             | DD=DC to DC   |   |   | V=Voltage regulator      |    |   |   |
|             | HD=Industry standard DC/AC                          |   |   | 3P=3-phase DC/AC         |    |   |   |
| 3           | -Rated operational voltage, code × 10(48 × 10=480V) |   |   |                          |    |   |   |
| 4           | -Rated operational current                          |   |   |                          |    |   |   |
| 5           | -None=Zero cross trigger                            |   |   |                          |    |   |   |
|             | -R=Random switch                                    |   |   |                          |    |   |   |
| 6           | -Outline: None=crydom type, black cover             |   |   |                          |    |   |   |
|             | 1=FOTEK type, white cover                           |   |   | 2=OMRON type, grey cover |    |   |   |

### Introduction

Solid State Relay(SSR) is industrial control appliances which use power semiconductor devices for main control part, compare with traditional magnetic contact industrial controllers, it is more high-powered, intelligent, digital, systematic and green development.

according switch mode SSR have zero-cross and random type. When the input control signal, random type conduction immediately, zero cross type need load voltage turn to zero region just can conduction. Revocation of the control signal,all can cut off when less than maintenance current. zero cross type may cause the maximum half-cycle delay, but reduces the impact of the load and radiofrequency interference, is the ideal switching devices.Random type fast response,suitable for dimmer,thermostats resistive loads and some inductive load applications.

When the SSR turn off, if in the phase current and voltage have different, will have a large rise rate (dv/dt) on the triac, such as dv/dt higher than Triac standatrd (300V/us), will result in delay shutdown even failure. use anti-parallel thyristor's SSR(powerful type) will been greatly improved at dv/dt(dv / dt is 500V/us). Therefore, in the field of capacitive load or inductive load, suggest the use powerful type SSR. Zenli's SSR are all powerful type.

Solid-state voltage regulator consists of thyristor switching circuit,resistance-capacitance phase shifting circuit,lag circuit and over-voltage absorption circuit.The use of only one external potentiometer can be used to achieve AC power regulation.In many occasions can replace the heavy contact voltage lighting power supply,voltage,temperature,brightness,s peed and other analog adjustment.

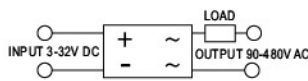
固态继电器是以电力半导体器件为主功率器件的工业控制电器,它与传统的电磁接触式工业控制器相比较,更符合电力电气设备朝着高性能,智能化,数字化,系统化及绿色化发展的要求。

固态继电器按照开关方式分为过零导通型和随机导通型。当输入控制信号后,随机型能立即导通,过零型要等到负载电压过零区域才能导通。撤销控制信号后,都在小于维持电流时关断。过零型有可能造成最大半个周期的延时,却减小了对负载的冲击和射频干扰,是理想的开关器件。随机性特点是反应快,适合应用于调光调温等阻性负载和部分感性负载场合。

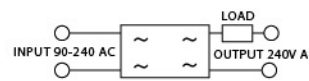
当SSR由导通到关断时,由于电流电压的相位不一致,将产生一个很大的电压上升率(dv/dt)在双向可控硅上,如上升率超过双向可控硅的换向dv/dt指标(标准为300V/us),将导致延时关断甚至失败。由2只单向可控硅反并联构成的增强型SSR比普通由1只双向可控硅构成的SSR的换向dv/dt有很大的提高(dv/dt值为500V/us),因此在感性负载或容性负载领域建议选用增强型SSR。我司的固态继电器均为增强型。

固态调压器由可控硅开关电路、阻容移相电路。滞后电路和过压吸收电路等以模块的外形组成。使用时只需外接一个电位器,就可以用来实现交流功率调节。在许多场合可以取代笨重的接触式调压器,广泛应用于包装机械、纺织机械、舞台照明电源、电压、温度、亮度、速度等模拟调节。

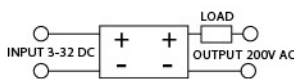
1. SSR-D(DC TO AC) Application Circuit



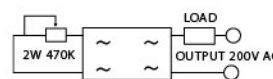
2. SSR-A(AC TO AC) Application Circuit



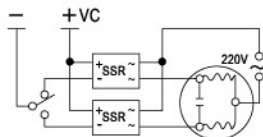
3. SSR-DD(DC to DC) Application Circuit



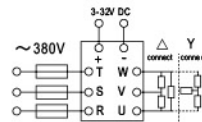
4. SSR-V(voltage regulator) Application Circuit



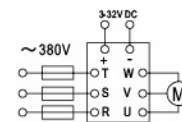
5. Motor positive and reverse Application Circuit



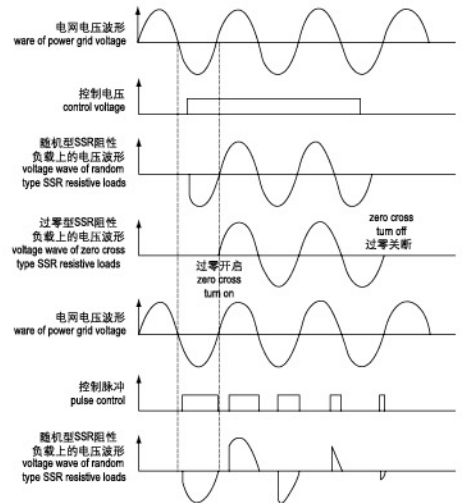
6. 3phase SSR Load control Connect



7. 3phase Motor positive and reverse



| Specification<br>应用参数                  |                | input parameter 输入        |                 |               |               | output parameter 输出 |                   |                     |   | Safe Load              |                        |
|--|----------------|---------------------------|-----------------|---------------|---------------|---------------------|-------------------|---------------------|---|------------------------|------------------------|
|  |                | Control Voltage           | Control Current | Start Current | Close Voltage | Operating Current   | Operating Voltage | Insulate voltage    | Protection 保护<br>Over Voltage<br>Over Current | Resistive Load<br>阻性负载 | Inductive Load<br>感性负载 |
| Single Phase SSR                       | DC/AC          | 3-32 V DC                 | <20mA           | ≥5mA          | ≤15V DC       | 10-120A             | 90-480V AC        | ≥2500 VAC           | RC MOV<br>Fast Fuse                           | 60%                    | 40%                    |
|  | AC/AC          | 90-280 VAC                | <30mA           | ≥5mA          | ≤10V AC       | 10-120A             | 24-240V AC        |                     |   |                        |                        |
|  | Industry class | 3-32 V DC                 | <20mA           | ≥5mA          | ≤15V DC       | 100-800A            | 90-480V AC        |                     |   |                        |                        |
|  | DC/DC          | 5-32 V DC                 | <25mA           | ≥5mA          | ≤15V DC       | 10-40A              | 12-250V DC        |                     |   |                        |                        |
| 3Phase SSR                             |                | 3-32 V DC                 | <30mA           | ≥9mA          | ≤25V DC       | 10-120A             | 380V AC           | RC MOV<br>Fast Fuse |   |                        |                        |
| Solid State Voltage Regulator<br>固态调压器 |                | Potentiometer 470KΩ/2W电位器 |                 |               |               | 10-40A              | 10-250V AC        | RC MOV<br>Fast Fuse |   |                        |                        |



RC: Built-in resistance capacity absorption circuit. 内置阻容吸收保护回路  
MOV: External shunt metal oxide varistor. 外部并联压敏电阻

Notes 使用注意事项

1. Strictly prohibit for load short circuit. Can use fast fuse. 严禁短路负载, 可以使用快速熔断器。
2. Ling time working current can't over 70% of the nominal value. 长期工作不能超过额定值的70%。
3. Heatsink temperature can't over 75°C. 散热器温度不能超过与75°C
4. Use at inductive load area, add varistor for protect is better. 用于感性负载, 加压敏电阻保护更好。

Recommended value of load type (Room temperature) 各种负载推荐值 (常温)

| 负载类型<br>Load type | 纯电阻<br>Pure Resistance | 电热丝<br>Electric hot wire | 白炽灯泡<br>Incandescent lamp | 变压器/电磁铁<br>Transformer/Electromagnet | 单相交流电机<br>1 phase AC motor | 三相交流电机<br>3 phase AC motor |
|-------------------|------------------------|--------------------------|---------------------------|--------------------------------------|----------------------------|----------------------------|
| value of load     | 100%                   | 50-70%                   | 35-50%                    | 25-40%                               | 12-24%                     | 18-33%                     |

GENERAL SOLID STATE RELAY | 通用固态继电器

DC control AC



SSR-D4810  
SSR-D4825, SSR-D4840

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 10A, 25A, 40A  |
| Operation Voltage<br>负载电压 | 24-480V AC     |
| Control Voltage<br>控制电压   | 3-32V DC       |
| Control Current<br>控制电流   | DC 3-25mA      |
| V <sub>TM</sub> 通态压降      | ≤1.5V          |
| I <sub>RRM</sub> 漏电流      | ≤10mA          |
| T <sub>α</sub> 关断时间       | ≤10mS          |
| V iso 绝缘电压                | 2500V AC       |
| R iso 绝缘电阻                | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -30~+80°C      |
| Weight 重量                 | 90g            |

DC control AC



SSR-D4860, SSR-D4880

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 60A, 80A       |
| Operation Voltage<br>负载电压 | 24-480V AC     |
| Control Voltage<br>控制电压   | 3-32V DC       |
| Control Current<br>控制电流   | DC 3-25mA      |
| V <sub>TM</sub> 通态压降      | ≤1.45V         |
| I <sub>RRM</sub> 漏电流      | ≤15mA          |
| T <sub>α</sub> 关断时间       | ≤10mS          |
| V iso 绝缘电压                | 2500V AC       |
| R iso 绝缘电阻                | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -30~+80°C      |
| Weight 重量                 | 125g           |

DC control AC



SSR-D48100, SSR-D48120

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 100A, 120A     |
| Operation Voltage<br>负载电压 | 24-480V AC     |
| Control Voltage<br>控制电压   | 3-32V DC       |
| Control Current<br>控制电流   | DC 3-25mA      |
| V <sub>TM</sub> 通态压降      | ≤1.5V          |
| I <sub>RRM</sub> 漏电流      | ≤20mA          |
| T <sub>α</sub> 关断时间       | ≤10mS          |
| V iso 绝缘电压                | 2500V AC       |
| R iso 绝缘电阻                | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -30~+80°C      |
| Weight 重量                 | 145g           |

AC control AC



SSR-A2410  
SSR-A2425, SSR-A2440

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 10A, 25A, 40A  |
| Operation Voltage<br>负载电压 | 24-240V AC     |
| Control Voltage<br>控制电压   | 90-280V AC     |
| Control Current<br>控制电流   | AC ≤12mA       |
| V <sub>TM</sub> 通态压降      | ≤1.5V          |
| I <sub>RRM</sub> 漏电流      | ≤110mA         |
| T <sub>α</sub> 关断时间       | ≤10mS          |
| V iso 绝缘电压                | 2500V AC       |
| R iso 绝缘电阻                | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -30~+80°C      |
| Weight 重量                 | 90g            |

**AC control AC**



SSR-A2460, SSR-A2480

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 60A, 80A       |
| Operation Voltage<br>负载电压 | 24-240V AC     |
| Control Voltage<br>控制电压   | 90-280V AC     |
| Control Current<br>控制电流   | AC ≤12mA       |
| V <sub>TM</sub> 通态压降      | ≤1.45V         |
| I <sub>RRM</sub> 漏电流      | ≤15mA          |
| T <sub>Q</sub> 关断时间       | ≤10mS          |
| V <sub>iso</sub> 绝缘电压     | 2500V AC       |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -30~+80℃       |
| Weight 重量                 | 125g           |

**AC control AC**



SSR-A24100, SSR-A24120

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 100A, 120A     |
| Operation Voltage<br>负载电压 | 24-240V AC     |
| Control Voltage<br>控制电压   | 90-280V AC     |
| Control Current<br>控制电流   | AC ≤12mA       |
| V <sub>TM</sub> 通态压降      | ≤1.5V          |
| I <sub>RRM</sub> 漏电流      | ≤20mA          |
| T <sub>Q</sub> 关断时间       | ≤10mS          |
| V <sub>iso</sub> 绝缘电压     | 2500V AC       |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -30~+80℃       |
| Weight 重量                 | 145g           |

**DC control DC**



SSR-DD2410  
SSR-DD2425, SSR-DD2440

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 10A, 25A, 40A  |
| Operation Voltage<br>负载电压 | 12-240V AC     |
| Control Voltage<br>控制电压   | 3-32V DC       |
| Control Current<br>控制电流   | DC 3-25mA      |
| V <sub>TM</sub> 通态压降      | ≤2.3V          |
| I <sub>RRM</sub> 漏电流      | ≤5mA           |
| T <sub>Q</sub> 关断时间       | ≤10mS          |
| V <sub>iso</sub> 绝缘电压     | 2500V AC       |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -30~+80℃       |
| Weight 重量                 | 90g            |

**Voltage Regulator**



SSR-V3810  
SSR-V3825, SSR-V3840

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 10A, 25A, 40A  |
| Operation Voltage<br>负载电压 | 24-380V AC     |
| Control Voltage<br>控制电压   | 470KΩ/2W       |
| Control Current<br>控制电流   | /              |
| V <sub>TM</sub> 通态压降      | ≤1.5V          |
| I <sub>RRM</sub> 漏电流      | ≤5mA           |
| T <sub>Q</sub> 关断时间       | /              |
| V <sub>iso</sub> 绝缘电压     | 2500V AC       |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -30~+80℃       |
| Weight 重量                 | 90g            |

**Industry class SSR**



SSR-HD 80A, 100A, 150A

|                           |                 |
|---------------------------|-----------------|
| Operation Current<br>负载电流 | 80A, 100A, 150A |
| Operation Voltage<br>负载电压 | 24-480V AC      |
| Control Voltage<br>控制电压   | 3-32V DC        |
| Control Current<br>控制电流   | DC 3-25mA       |
| V <sub>TM</sub> 通态压降      | ≤1.5V           |
| I <sub>RRM</sub> 漏电流      | ≤20mA           |
| T <sub>Q</sub> 关断时间       | ≤10mS           |
| V <sub>iso</sub> 绝缘电压     | 2500V AC        |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC  |
| T <sub>j</sub> 工作温度       | -30~+80℃        |
| Weight 重量                 | 160g            |

**Industry class SSR**



SSR-HD 200A, 250A, 300A

|                           |                  |
|---------------------------|------------------|
| Operation Current<br>负载电流 | 200A, 250A, 300A |
| Operation Voltage<br>负载电压 | 24-480V AC       |
| Control Voltage<br>控制电压   | 3-32V DC         |
| Control Current<br>控制电流   | DC 3-25mA        |
| V <sub>TM</sub> 通态压降      | ≤1.5V            |
| I <sub>RRM</sub> 漏电流      | ≤20mA            |
| T <sub>Q</sub> 关断时间       | ≤10mS            |
| V <sub>iso</sub> 绝缘电压     | 2500V AC         |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC   |
| T <sub>j</sub> 工作温度       | -30~+80℃         |
| Weight 重量                 | 250g             |

**Industry class SSR**



SSR-HD 400A, 500A, 600A

|                           |                  |
|---------------------------|------------------|
| Operation Current<br>负载电流 | 400A, 500A, 600A |
| Operation Voltage<br>负载电压 | 24-480V AC       |
| Control Voltage<br>控制电压   | 3-32V DC         |
| Control Current<br>控制电流   | DC 3-25mA        |
| V <sub>TM</sub> 通态压降      | ≤1.6V            |
| I <sub>RRM</sub> 漏电流      | ≤20mA            |
| T <sub>Q</sub> 关断时间       | ≤10mS            |
| V <sub>iso</sub> 绝缘电压     | 2500V AC         |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC   |
| T <sub>j</sub> 工作温度       | -30~+80℃         |
| Weight 重量                 | 900g             |

**3 Phase SSR**



SSR-3P 10A, 25A, 40A

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 10A, 25A, 40A  |
| Operation Voltage<br>负载电压 | 24-480V AC     |
| Control Voltage<br>控制电压   | 3-32V DC       |
| Control Current<br>控制电流   | DC 3-25mA      |
| V <sub>TM</sub> 通态压降      | ≤1.5V          |
| I <sub>RRM</sub> 漏电流      | ≤15mA          |
| T <sub>Q</sub> 关断时间       | ≤10mS          |
| V <sub>iso</sub> 绝缘电压     | 2500V AC       |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -30~+80℃       |
| Weight 重量                 | 350g           |

### 3 Phase SSR



SSR-3P 60A, 80A, 100A, 120A

|                           |                        |
|---------------------------|------------------------|
| Operation Current<br>负载电流 | 60A, 80A<br>100A, 120A |
| Operation Voltage<br>负载电压 | 24-480V AC             |
| Control Voltage<br>控制电压   | 3-32V DC               |
| Control Current<br>控制电流   | DC 3-25mA              |
| V <sub>TM</sub> 通态压降      | ≤1.5V                  |
| I <sub>RRM</sub> 漏电流      | ≤15mA                  |
| T <sub>Q</sub> 关断时间       | ≤10mS                  |
| V <sub>iso</sub> 绝缘电压     | 2500V AC               |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC         |
| T <sub>j</sub> 工作温度       | -30~+80℃               |
| Weight 重量                 | 450g                   |

### 3 Phase SSR



SSR-3P 200A, 250A, 300A, 400A

|                           |                          |
|---------------------------|--------------------------|
| Operation Current<br>负载电流 | 200A, 250A<br>300A, 400A |
| Operation Voltage<br>负载电压 | 24-480V AC               |
| Control Voltage<br>控制电压   | 3-32V DC                 |
| Control Current<br>控制电流   | DC 3-25mA                |
| V <sub>TM</sub> 通态压降      | ≤1.6V                    |
| I <sub>RRM</sub> 漏电流      | ≤15mA                    |
| T <sub>Q</sub> 关断时间       | ≤10mS                    |
| V <sub>iso</sub> 绝缘电压     | 2500V AC                 |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC           |
| T <sub>j</sub> 工作温度       | -30~+80℃                 |
| Weight 重量                 | 4500g                    |

## IMPROVED DESIGN SOLID STATE RELAY | 改进型固态继电器

### Ordering Information Table

|             |  |    |   |   |
|-------------|--|----|---|---|
| Device Code | SSR                                      | 40 | D | A |
|             | ①  | ②  | ③ | ④ |
| ①           | -ZENLI Improved design Solid State Relay |    |   |   |
| ②           | -Operational current                     |    |   |   |
| ③           | -Control Voltage                         |    |   |   |
| ④           | -Operation Voltage                       |    |   |   |



专利设计，采用一体式翻盖保护造型，操作方便，防护罩不易丢失。  
Patent design, using the coverprotection model, easy to operate



底板采用特殊电镀，光泽细腻匀称。抗氧化，耐腐蚀，散热性能好。  
Special electroplating for plate, anti-oxidation, well heat dissipation.

高品质螺丝，六角套筒或螺丝刀均可进行操作。一体式固定垫片，无接线端子的铜线也可直接使用。  
High quality screw, can operate by hexagonal sleeve or screwdriver. Integral fixed gasket, wire without terminal can also be used directly.

内部结构设计功率器件直接导通安装紫铜电极，过电流能力强。辅助铜卡件，螺纹精准并能辅助增强导电能力。  
Power device directly conducts with copper electrode, which has strong overcurrent ability. Brass fasteners with precise threads help to enhance conductivity.

SMT双面板全贴片工艺，视觉检查杜绝虚焊，双光耦控制+下限保护设计，精选进口电子元器件，优选美国Crydom和法国Celduc的驱动优势，抗干扰能力强，控制精准。  
SMT double panel full patch process, optimize the driving advantages of Crydom and Celcu, strong anti-interference ability, accurate control.

真空灌封进口透明硅凝胶，导热性能优越，绝缘特性强。多层密封设计，防水 防尘 抗盐雾，可在多种严苛环境下稳定使用。  
Transparent silicone gel has excellent thermal conductivity and strong insulation characteristics. Multi-layer sealing design, waterproof, dustproof and salt fog resistance, can be used stably in harsh environments.

### DC control AC



SSR10DA  
SSR25DA, SSR40DA

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 10A, 25A, 40A  |
| Operation Voltage<br>负载电压 | 24-380V AC     |
| Control Voltage<br>控制电压   | 4-32V DC       |
| Control Current<br>控制电流   | DC 3-25mA      |
| V <sub>TM</sub> 通态压降      | ≤1.4V          |
| I <sub>RRM</sub> 漏电流      | ≤10mA          |
| T <sub>Q</sub> 关断时间       | ≤10mS          |
| V <sub>iso</sub> 绝缘电压     | 3000V AC       |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -35~+85℃       |
| Weight 重量                 | 95g            |

### DC control AC



SSR60DA  
SSR80DA, SSR100DA

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 60A, 80A, 100A |
| Operation Voltage<br>负载电压 | 24-380V AC     |
| Control Voltage<br>控制电压   | 4-32V DC       |
| Control Current<br>控制电流   | DC 3-25mA      |
| V <sub>TM</sub> 通态压降      | ≤1.40V         |
| I <sub>RRM</sub> 漏电流      | ≤10mA          |
| T <sub>Q</sub> 关断时间       | ≤10mS          |
| V <sub>iso</sub> 绝缘电压     | 3000V AC       |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -35~+85℃       |
| Weight 重量                 | 135g           |

### AC control AC



SSR10AA  
SSR25AA, SSR40AA

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 10A, 25A, 40A  |
| Operation Voltage<br>负载电压 | 24-380V AC     |
| Control Voltage<br>控制电压   | 80-250V AC     |
| Control Current<br>控制电流   | AC ≤12mA       |
| V <sub>TM</sub> 通态压降      | ≤1.4V          |
| I <sub>RRM</sub> 漏电流      | ≤10mA          |
| T <sub>Q</sub> 关断时间       | ≤10mS          |
| V <sub>iso</sub> 绝缘电压     | 3000V AC       |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -35~+85℃       |
| Weight 重量                 | 95g            |

### AC control AC



SSR60AA  
SSR80AA, SSR100AA

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 60A, 80A, 100A |
| Operation Voltage<br>负载电压 | 24-380V AC     |
| Control Voltage<br>控制电压   | 80-250V AC     |
| Control Current<br>控制电流   | AC ≤12mA       |
| V <sub>TM</sub> 通态压降      | ≤1.40V         |
| I <sub>RRM</sub> 漏电流      | ≤10mA          |
| T <sub>Q</sub> 关断时间       | ≤10mS          |
| V <sub>iso</sub> 绝缘电压     | 3000V AC       |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -35~+85℃       |
| Weight 重量                 | 135g           |

### DC control DC



SSR10DD  
SSR25DD, SSR40DD

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 10A, 25A, 40A  |
| Operation Voltage<br>负载电压 | 12-240V AC     |
| Control Voltage<br>控制电压   | 4-32V DC       |
| Control Current<br>控制电流   | DC 3-25mA      |
| V <sub>TM</sub> 通态压降      | ≤2.2V          |
| I <sub>RRM</sub> 漏电流      | ≤2mA           |
| T <sub>Q</sub> 关断时间       | ≤10mS          |
| V <sub>iso</sub> 绝缘电压     | 3000V AC       |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -35~+85℃       |
| Weight 重量                 | 95g            |

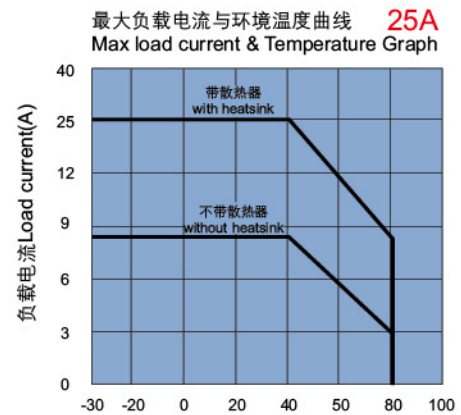
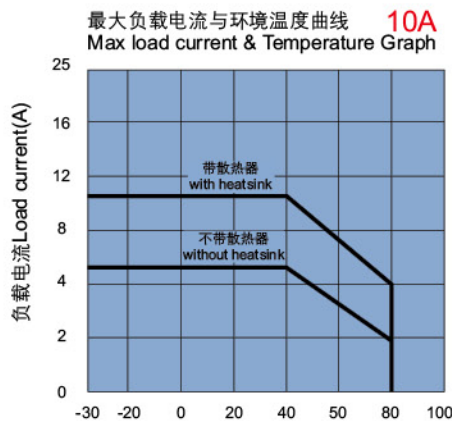
### Voltage Regulator



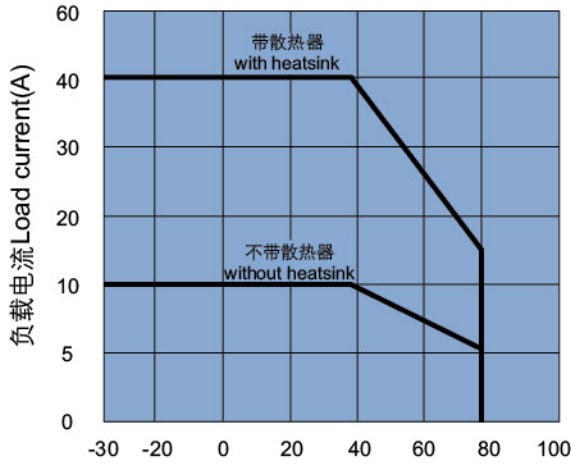
SSR10VA  
SSR25VA, SSR40VA

|                           |                |
|---------------------------|----------------|
| Operation Current<br>负载电流 | 10A, 25A, 40A  |
| Operation Voltage<br>负载电压 | 24-380V AC     |
| Control Voltage<br>控制电压   | 500KΩ/14W      |
| Control Current<br>控制电流   | /              |
| V <sub>TM</sub> 通态压降      | ≤1.4V          |
| I <sub>RRM</sub> 漏电流      | ≤2mA           |
| T <sub>Q</sub> 关断时间       | /              |
| V <sub>iso</sub> 绝缘电压     | 3000V AC       |
| R <sub>iso</sub> 绝缘电阻     | 1000mΩ 500V DC |
| T <sub>j</sub> 工作温度       | -35~+85℃       |
| Weight 重量                 | 95g            |

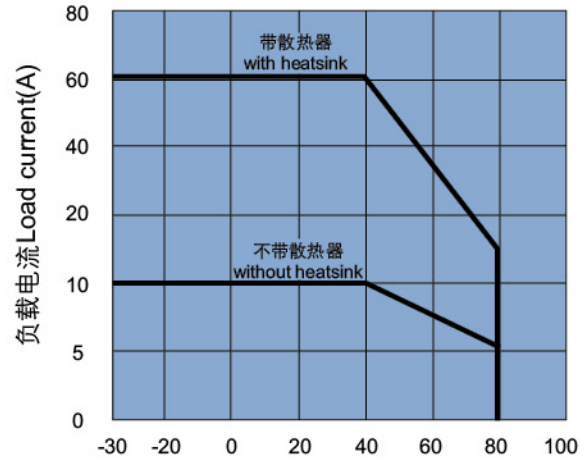
## Dissipative Power Curve of SSR 固态继电器耗散功率曲线图



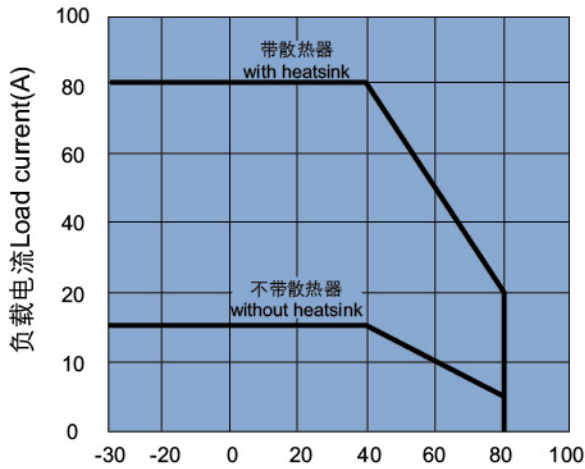
最大负载电流与环境温度曲线 40A  
Max load current & Temperature Graph



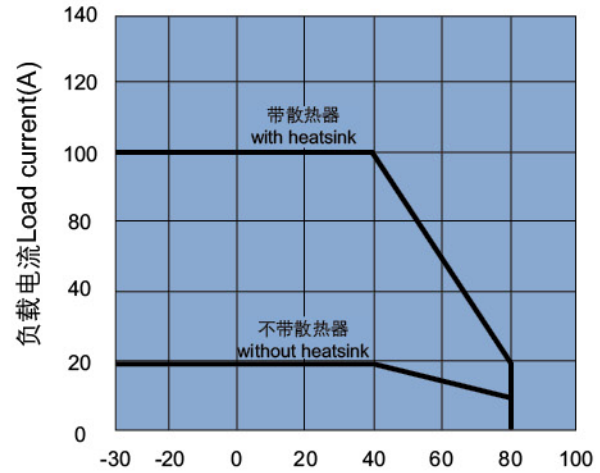
最大负载电流与环境温度曲线 60A  
Max load current & Temperature Graph



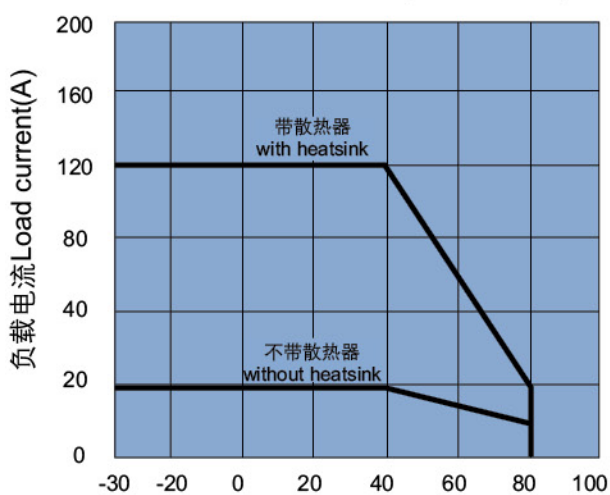
最大负载电流与环境温度曲线 80A  
Max load current & Temperature Graph



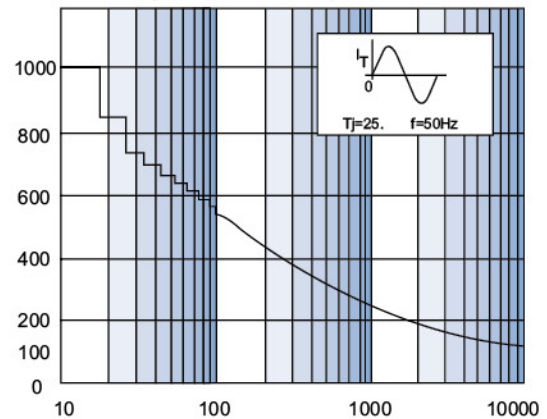
最大负载电流与环境温度曲线 100A  
Max load current & Temperature Graph



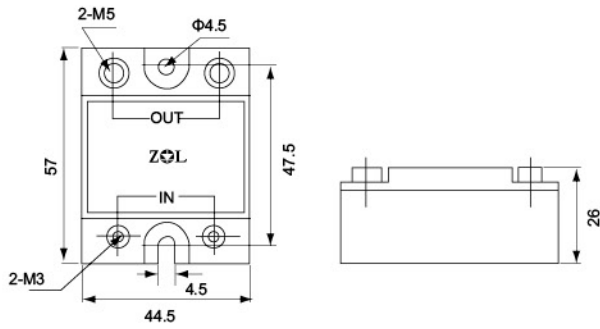
最大负载电流与环境温度曲线 120A  
Max load current & Temperature Graph



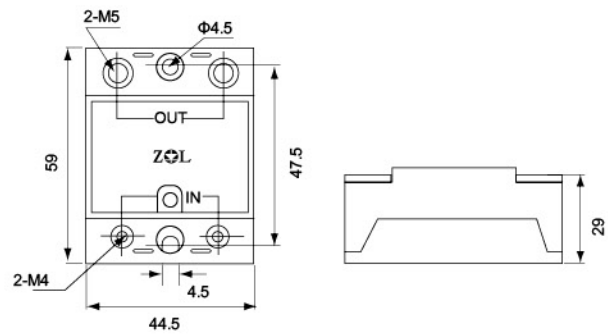
最大浪涌电流与浪涌持续时间曲线  
Max surge current & Surge duration Graph



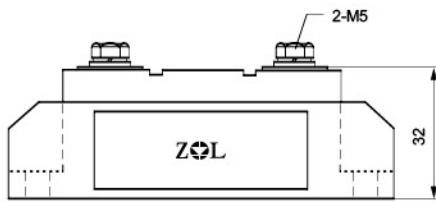
## Solid State Relay Outline 固态继电器外形尺寸



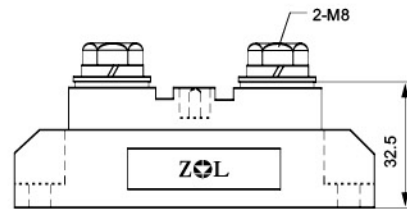
SSR-1



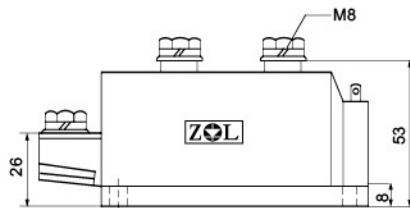
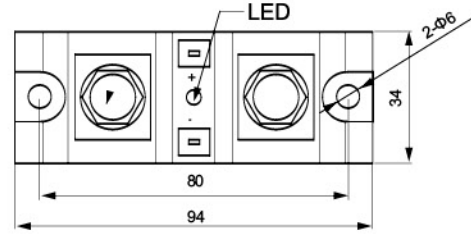
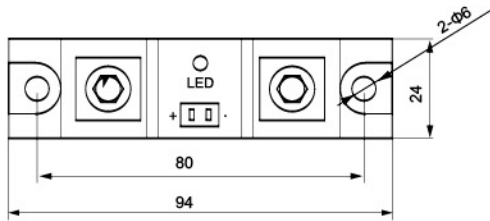
SSR-2



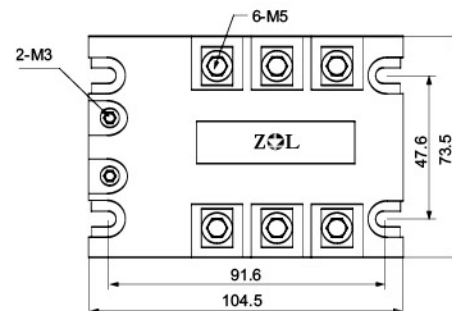
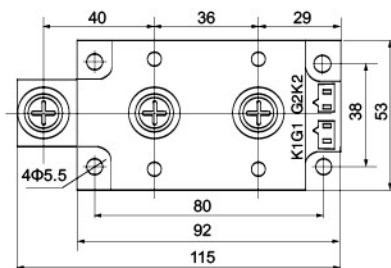
SSR-3



SSR-4



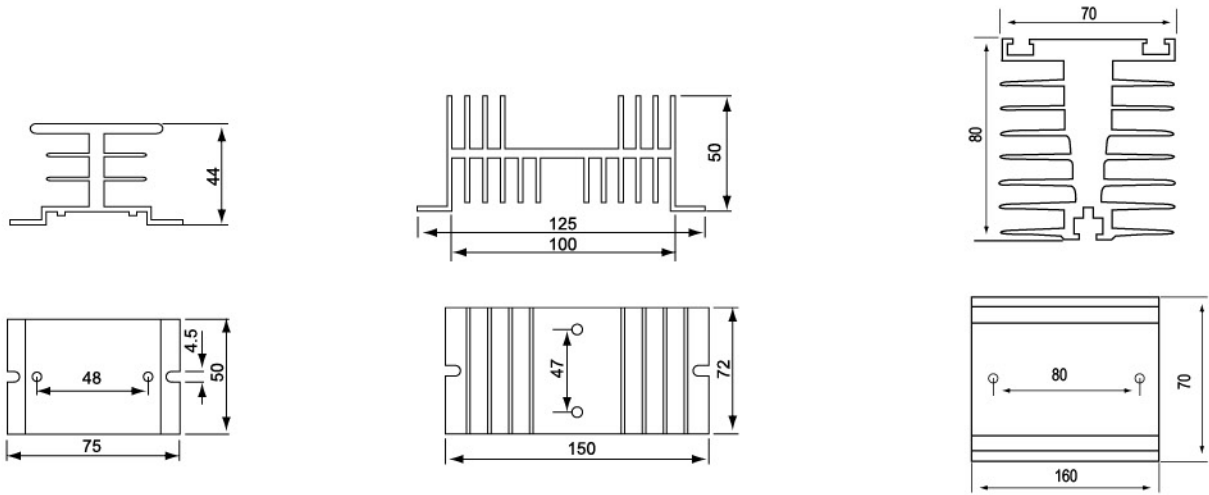
SSR-5



SSR-6



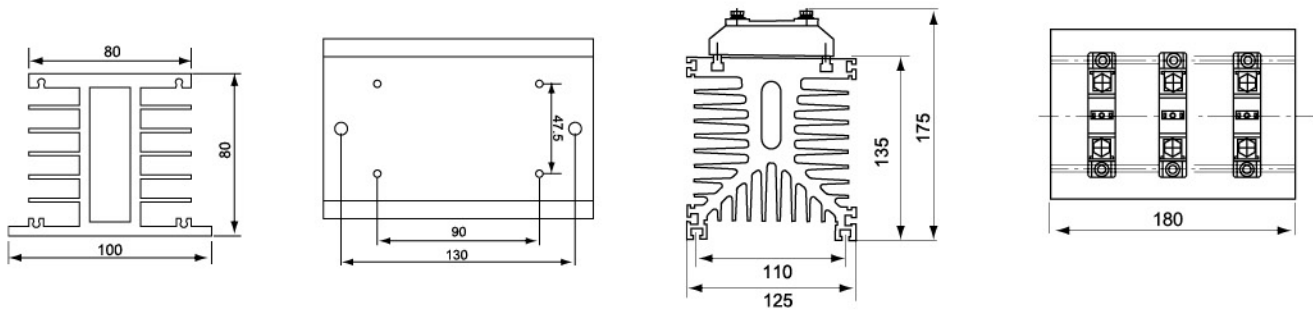
## State Relay Heatsink 固态继电器用散热器



ZLXC-SSR1

ZLXC-SSR2

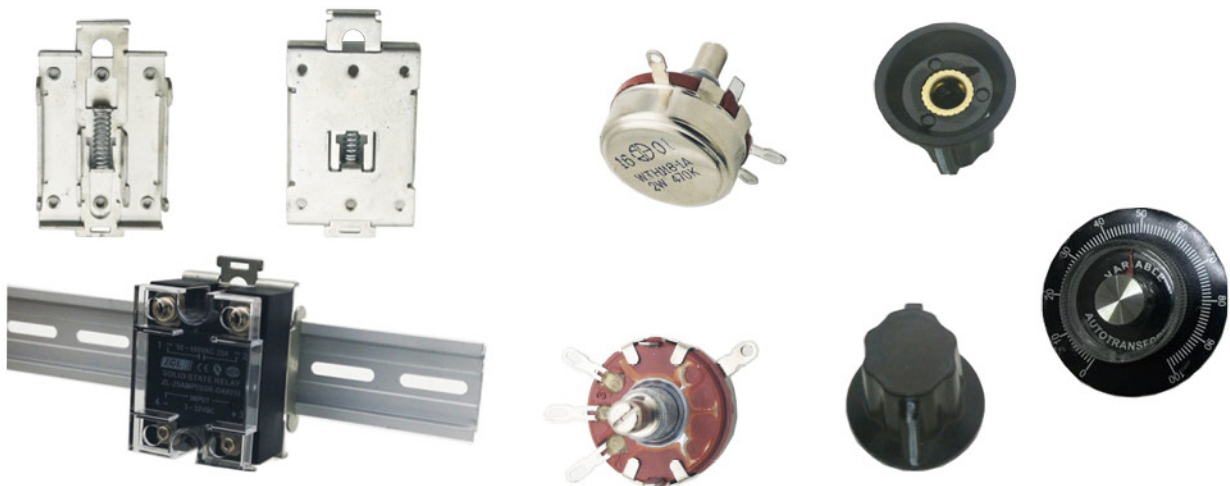
ZLXC-SSR3



ZLXC-SSR4

ZLXC-SSR5

## SSR Auxiliary Parts 固态继电器辅件



SSR clamp 导轨卡件

Potention meter & Knob  
调压用电位器及外置旋钮