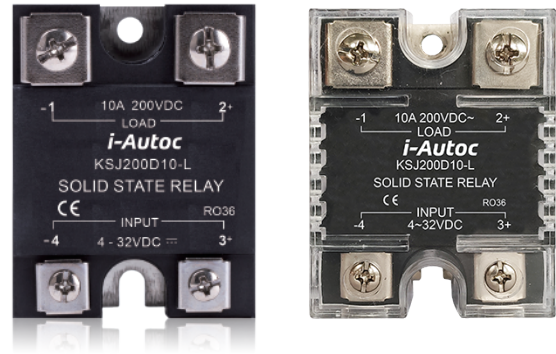


产品描述

KSJ属于常开型直流输出固体继电器，面板安装，控制电压4-32VDC，负载电压30VDC-1200VDC（其中30VDC-200VDC采用MOSFET输出，400VDC-1200VDC采用IGBT输出），负载电流7A-100A，输入和输出之间光电隔离，介质耐压为2500Vrms。

- ◆ MOSFET 或 IGBT 输出
- ◆ 光电隔离，介质耐压：2500Vrms
- ◆ 低阻抗
- ◆ 面板安装
- ◆ 控制电压：4-32VDC
- ◆ LED 指示
- ◆ 内置过压保护器件
- ◆ 符合 RoHS
- ◆ 可选防护盖 KPC-0A



产品选型

| | | | | | |
|----------------------|--|----------|--|-----------|--------------|
| KSJ | 50 | D | 40 | -L | (XXX) |
| KSJ系列 ⁽¹⁾ | 负载电压 30:0-24VDC 50:0-36VDC 60:0-48VDC 100:0-75VDC 200:0-120VDC 400:3-300VDC 600:3-500VDC 1200:3-700VDC | 直流控制 | 负载电流 7:7Amp 10:10Amp 20:20Amp 25:25Amp 40:40Amp 50:50Amp 80:80Amp 100:100Amp | LED指示灯 | 客户代码 |

(1) 具体型号以下表罗列为准

| 描述 | 30VDC | 50VDC | 60VDC | 100VDC | 200VDC | 400VDC | 600VDC | 1200VDC |
|------|-------------|------------|------------|-------------|-------------|-------------|-------------|--------------|
| 7A | | | KSJ60D7-L | | | | | |
| 10A | | | | | KSJ200D10-L | | | |
| 20A | | | | KSJ100D20-L | KSJ200D20-L | | | |
| 25A | | | | | | KSJ400D25-L | KSJ600D25-L | KSJ1200D25-L |
| 40A | | KSJ50D40-L | | KSJ100D40-L | KSJ200D40-L | | | |
| 50A | KSJ30D50-L | | KSJ60D50-L | | | | KSJ600D50-L | KSJ1200D50-L |
| 80A | | KSJ50D80-L | | KSJ100D80-L | | | | |
| 100A | KSJ30D100-L | | | | | | | |

产品选型

| 输入参数 (Ta=25°C) | |
|----------------|---------------|
| 控制电压范围 | 4-32VDC |
| 确保导通电压 | 4VDC |
| 确保关断电压 | 1VDC |
| 最大控制电流 | 25mA (@32VDC) |
| 最大反向电压 | 32VDC |

技术参数

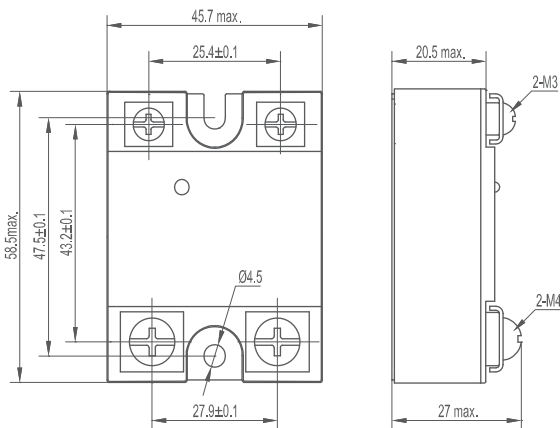
| 输出参数 (Ta=25°C) | | | | | | | | | | | | | | | | | | |
|--------------------|-----------|-----|-----------|-----|-----------|-----|------------|-----|-----|------------|------|------|-------------|------|------------|------|-------------|--|
| 规格型号 | KSJ30D□-L | | KSJ50D□-L | | KSJ60D□-L | | KSJ100D□-L | | | KSJ200D□-L | | | KSJ400D25-L | | KSJ600D□-L | | KSJ1200D□-L | |
| 晶体管电压 (VDC) | 55 | 100 | 75 | 100 | 100 | 150 | 150 | 250 | 250 | 600 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | |
| 负载电压范围 (VDC) | 0-24 | | 0-36 | | 0-48 | | 0-75 | | | 0-120 | | | 3-300 | | 3-500 | | 3-700 | |
| TVS击穿电压范围 (V) | 37.1-41 | | 53.2-58.8 | | 64.6-71.4 | | 105-116 | | | 190-210 | | | | | | | | |
| MOV电压保护范围 (V) | | | | | | | | | | | | | 423-517 | | 675-825 | | 738-902 | |
| 最大负载电流 (A) | 50 | 100 | 40 | 80 | 7 | 50 | 20 | 40 | 80 | 10 | 20 | 40 | 25 | 25 | 50 | 25 | 50 | |
| 最大浪涌电流 (Apk,@10ms) | 150 | 250 | 120 | 200 | 30 | 150 | 60 | 120 | 200 | 30 | 60 | 120 | 75 | 75 | 150 | 75 | 150 | |
| 最大导通电阻 (mΩ) | 4.2 | 2.1 | 12 | 6 | 14 | 7 | 13 | 13 | 6.5 | 60 | 30 | 30 | | | | | | |
| 最大导通压降 (V) | | | | | | | | | | | | | 1.75 | | | | | |
| 最大断态漏电流 (mA) | 0.1 | | | | | | | | | | | | 0.5 | | | | | |
| 最小负载电流 (mA) | 2 | | | | | | | | | | | | 2 | | | | | |
| 最大导通时间 (ms) | 0.3 | | | | | | | | | | | | 1 | | | | | |
| 最大关断时间 (ms) | 0.3 | | | | | | | | | | | | 1 | | | | | |

| 其它参数 (Ta=25°C) | | |
|------------------|----------------|----------|
| 介质耐压 (50Hz/60Hz) | 输入/输出 | 2500Vrms |
| | 输入,输出/底板 | 2500Vrms |
| 绝缘电阻 (@500VDC) | 1000MΩ | |
| 工作温度范围 | -30°C ~ +80°C | |
| 储存温度范围 | -30°C ~ +100°C | |
| 重量(典型值) | 100g | |

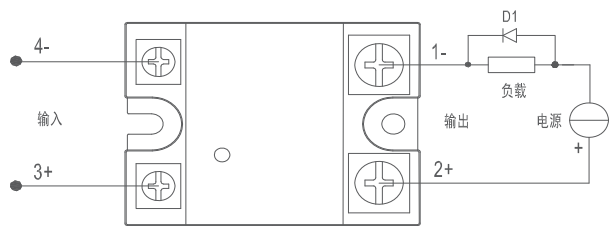
应用场合

直流加热,直流电源,直流阀,直流马达,医疗设备等。

安装尺寸/接线图



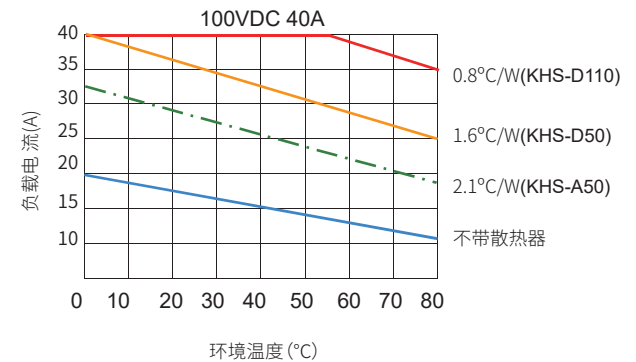
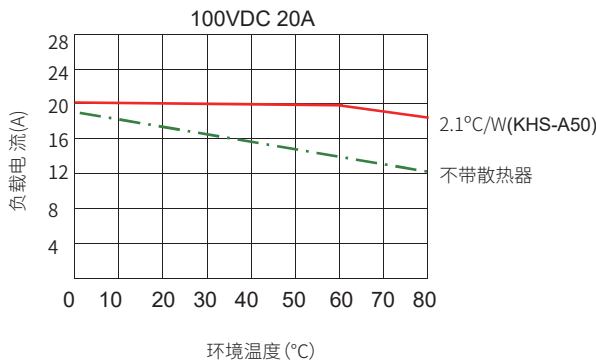
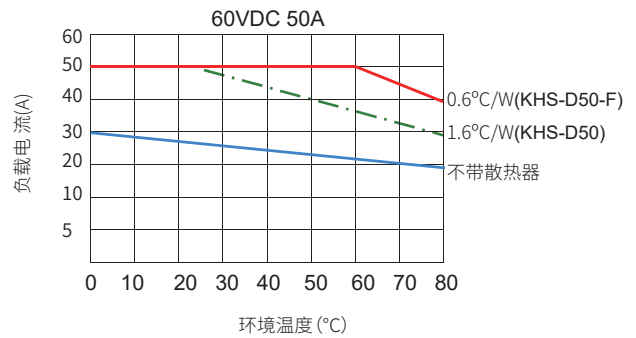
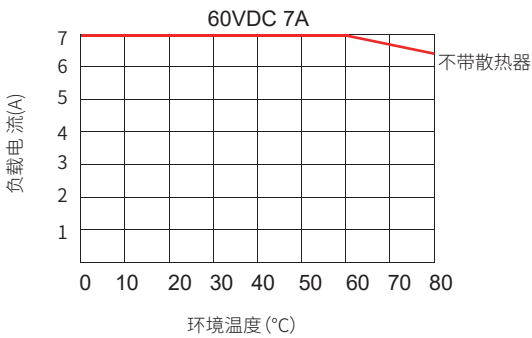
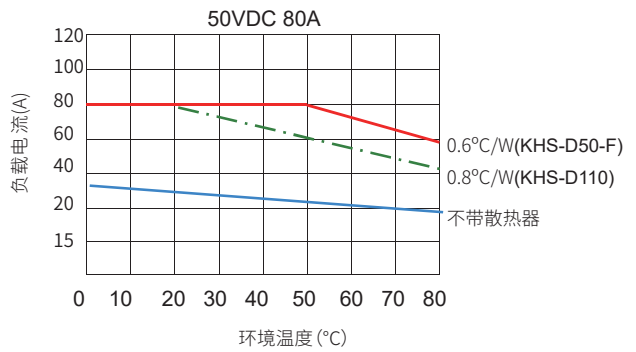
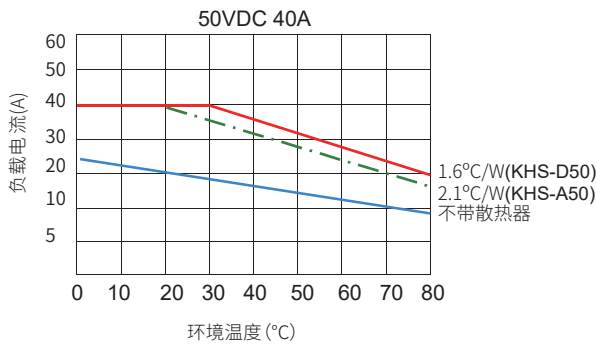
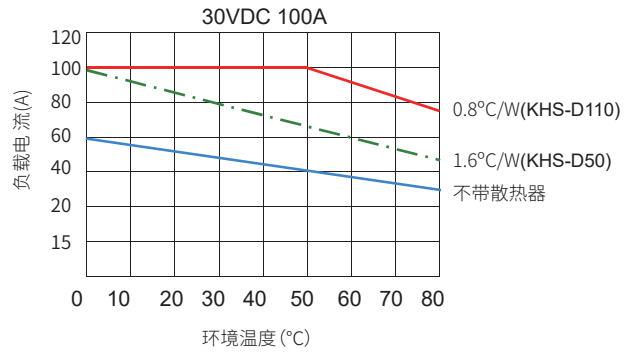
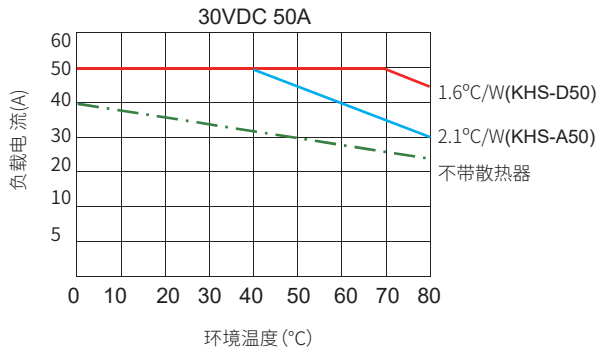
安装尺寸图

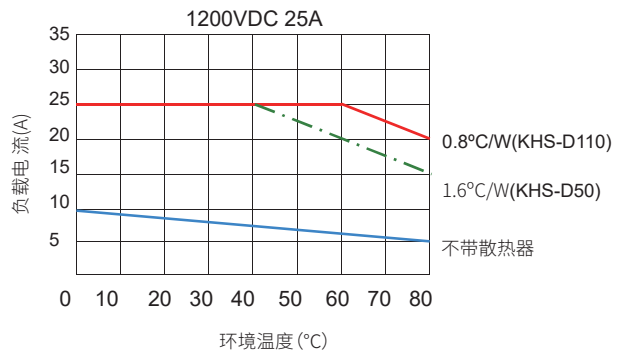
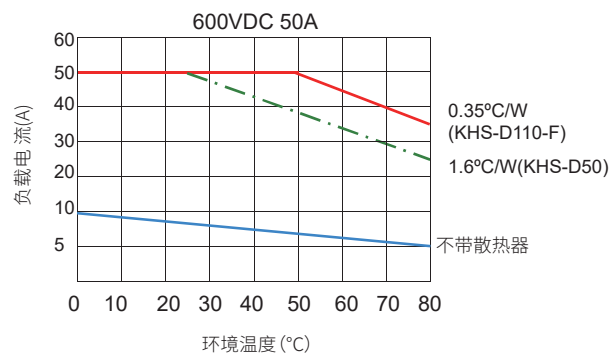
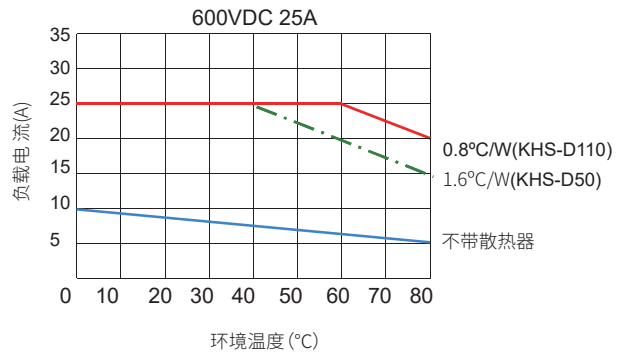
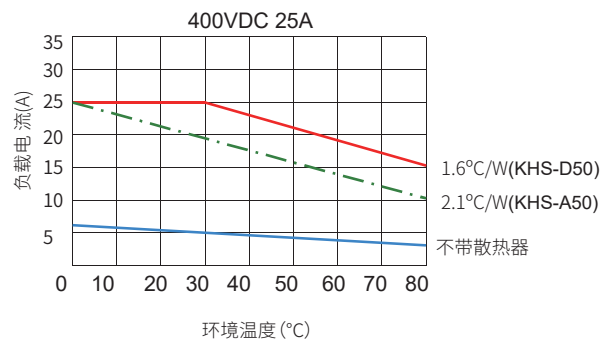
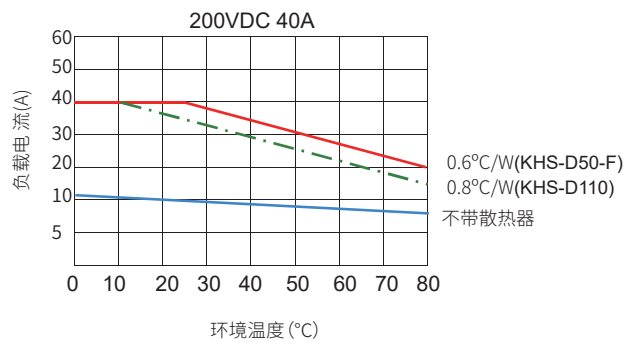
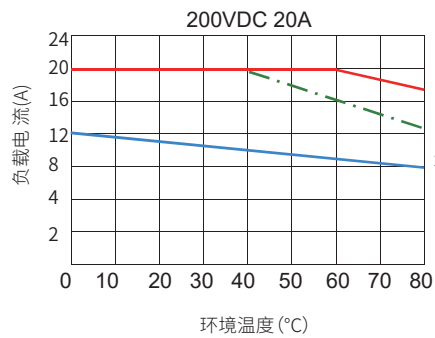
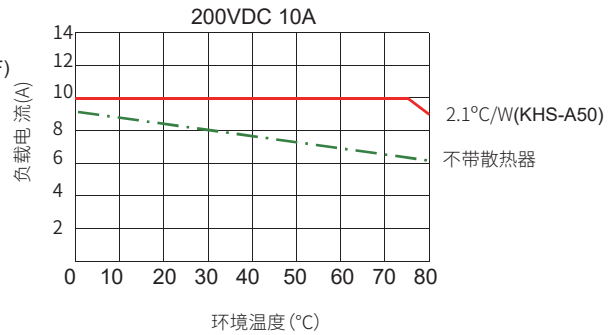
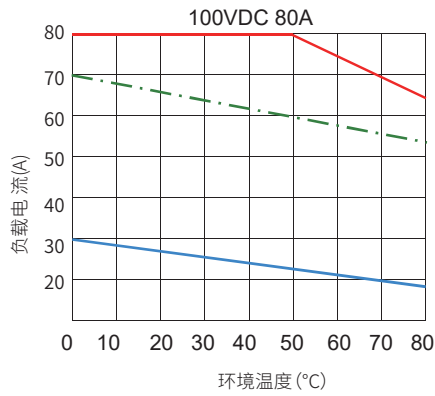


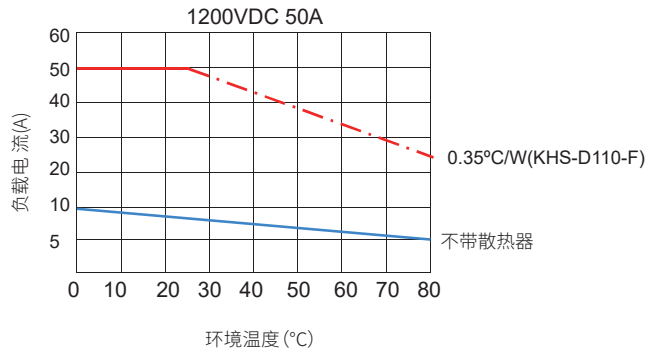
*当使用感性负载时必须加抑制电路,如图负载两端反并联续流二极管D1
D1: 快速恢复二极管

接线图

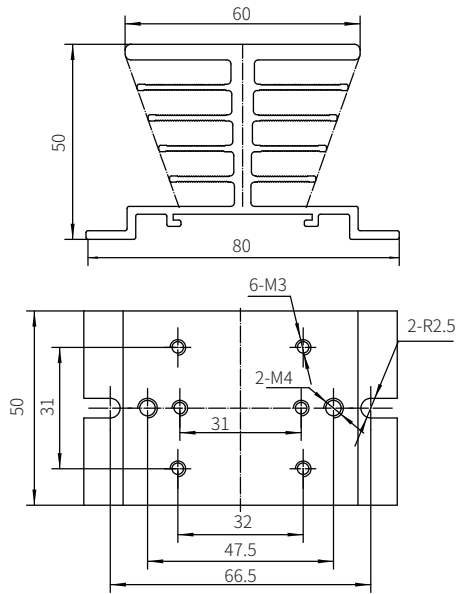
温度曲线





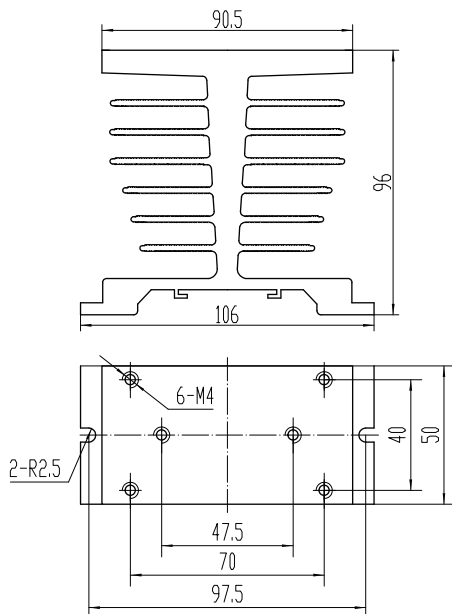


以上温度曲线配置散热器型号如下:

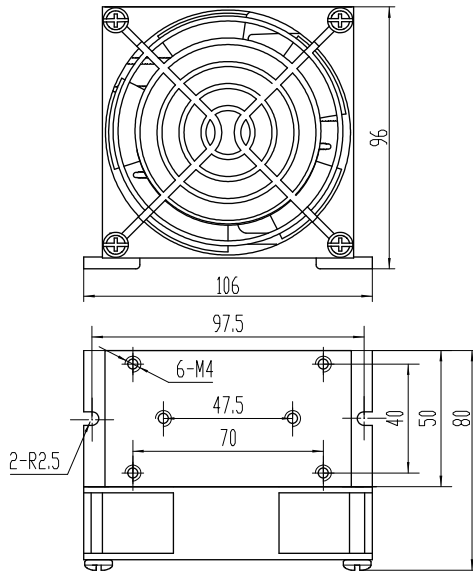


KHS-A50

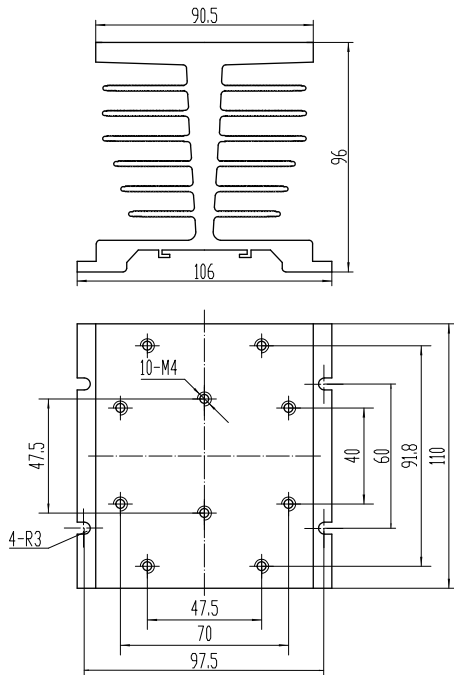
(注: 建议安装孔尺寸为68mm)



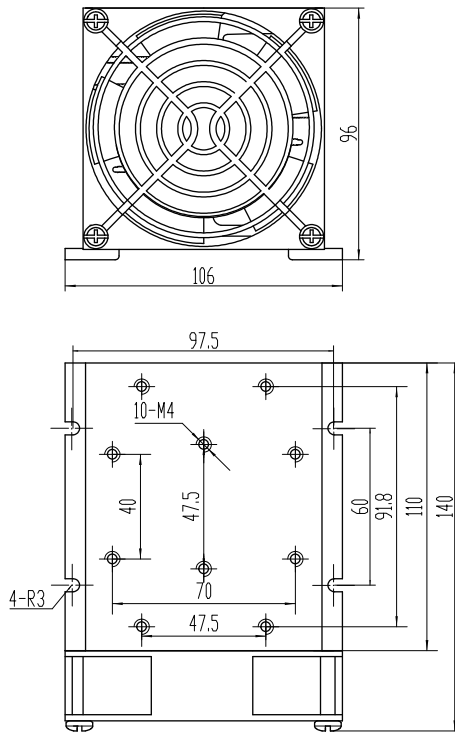
KHS-D50



KHS-D50-F



KHS-D110



KHS-D110-F

注意事项

1. 继电器工作产生的热量需通过底板散出, 需确保继电器底板与散热器接触紧密、安装牢固, 且接触面需加导热垫片或涂覆导热硅脂。
2. 继电器端子应确保接线牢固, 接线松弛会导致产品异常发热, 损坏产品。M3端子的推荐安装扭矩为 $(0.58\sim 0.98) \text{ N}\cdot\text{m}$, M4端子的推荐安装扭矩为 $(0.98\sim 1.37) \text{ N}\cdot\text{m}$ 。
3. 产品工作的环境温度较高时, 请参照温度曲线降额使用。
4. 容性负载再导通瞬间会产生极高的浪涌电流, 有可能会造成导致固体继电器因过大的浪涌电流而损坏。因此, 如果负载时容性负载, 或负载有并联大电容, 强烈建议在负载回路中串联NTC对浪涌电流进行抑制, 以免损坏产品。

! 安全警告

1. 使用过程中产品的侧面及底板会发热, 请在冷却后再触摸。
2. 安装或使用本产品前, 请确保断开所有电源。
3. 请检查所有连接是否妥当后再打开电源。