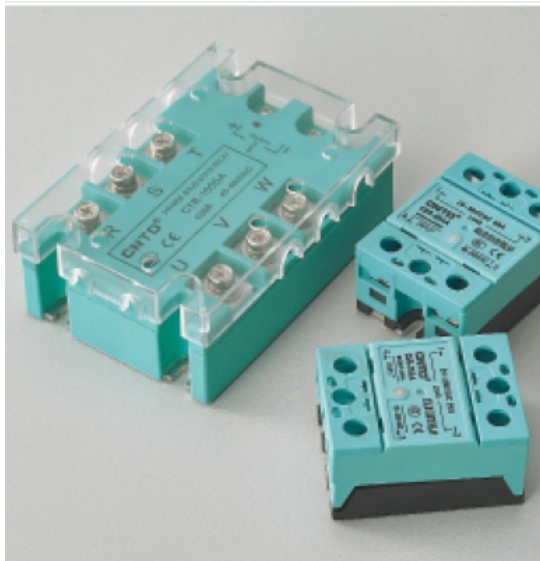




特点 Features

- 电流: 0.5A 400A
- 电压: 12V 680V
- 通用安装尺寸
- 真空焊接技术
- LED指示灯显示 "ON" 或 "OFF"
- 保护面板
- IEC标准
- 输入输出类型可选择
- Current: 0.5A~400A
- Voltage: 12V~680V
- General Install Size
- Vacuum Weld Technics
- Led indicator showing "ON" or "OFF"
- Protect Panel
- IEC standard
- Input & output type could chose

DC / AC AC / AC DC / DC



■ 灰色标准型
Gray



■ 浅绿色高端型
Light green

型号说明 Model Number Structure

CSR - E 40 DA R

① ② ③ ④ ⑤

- 1 CSR=昌得单相固态继电器 CSR=CNTD Single Phase Solid State Relay
CTR=昌得三相固态继电器 CTR=CNTD Three Phase Solid State Relay
- 2 无=浅绿色高端型 None= Improve Design Type(Light Green)
E=灰色标准型 E=Standard Economic Type(Gray)
- 3 额定电流 Rated Operation Current
- 4 控制和负载电压类型 Control & Load voltage type
DA=DC(4-32V)AC(24-380V) AA=AC(80-250V)AC(24-380V)
DD=DC(4-32V)DC(12-240V) VA=Voltage regulator调压器(24 380VAC)
- 5 常规过零触发型 None=Zero Cross Trigger
随机触发型 R=Random Switch

概述 Overview

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CSR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CSR比普通由1只双向可控硅构成的CSR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CSR。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。

Solid State Relay(CSR) 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 CSR 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 CSR 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 CSR(powerful type) will be 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 CSR. CNTD's CSR 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, speed and other analog adjustment.

应用 Applications

- 交流直流开关和温度控制
- 自动化控制
- 数控机械
- 包装机械
- 纺织机械
- 玻璃机械
- 塑料机械
- AC DC switch & Temp control
- Automate Control
- CNC machinery
- Packaging machinery
- Textile machinery
- Glass machinery
- Plastic machinery

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