固特电气®
GOLD ELECTRIC

半导体行业 手册

固态继电器行业定制专家

销售专线：400-000-7337　0510-85166001　　网址：www.chinassr.com/ ssr.com.cn/ goldssr.com

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SAVP单相调压模块

SAVP single-phase voltage regulation module

CE
产品具备欧盟CE认证

- 可控硅移相输出，调压比例线性好
- 内置阻容吸收回路，浪涌吸收保护更可靠
- 国际标准化安装尺寸
- LED指示工作状态
- 环氧树脂灌胶，抗腐蚀、抗爆能力强
- 阻燃外壳配置安全防护罩
- 输入输出端光电隔离
- 输入4-20mA,2-10VDC可选，输出220VAC.380VAC可选



SAVP22系列



SAVP38系列

产品命名规则

S	A	V	P	**	**
SSR(固态继电器)	A:交流输出	V:调压型	P:方型	负载电压 22:220VAC 38:380VAC	负载电流 10:10A … 120:120A

产品选型 Product Selection

产品型号	负载电压	负载电流	控制方式	绝缘电压	负载压降
SAVP2210	0-220VAC	10A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP2220	0-220VAC	15A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP2225	0-220VAC	25A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP2240	0-220VAC	40A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP2260	0-220VAC	60A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP2280	0-220VAC	80A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP22100	0-220VAC	100A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP22120	0-220VAC	120A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC

坚持更高标准 追求卓越品质

固特电气 GOLD ELECTRIC

产品型号	负载电压	负载电流	控制方式	绝缘电压	负载压降
SAVP3810	0-380VAC	10A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP3820	0-380VAC	15A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP3825	0-380VAC	25A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP3840	0-380VAC	40A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP3860	0-380VAC	60A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP3880	0-380VAC	80A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP38100	0-380VAC	100A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP38120	0-380VAC	120A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC

产品参数 Product parameters

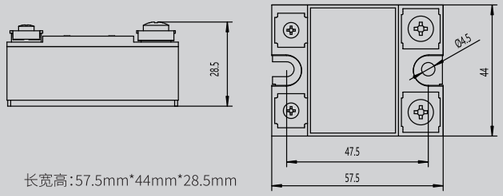
输入参数			
控制信号参数	电压控制	电压控制	2-10VDC
		导通电压	2.5VDC
		关断电压	2VDC
输出参数			
控制信号参数	电流控制	电压控制	4-20mA
		导通电压	4.6mA
		关断电压	4mA

输出参数		
负载电压 调节范围	SAVP22系列 0-220VAC	SAVP38系列 0-380VAC
最小导通电流	50mA	
最大通态压降	2VAC	
最大断态电流	5mA	
断态电压上升率dv/dt	500V/us	
通断时间	≤10ms	
工作频率	45-65HZ	

其它参数	
最小隔离电压	输入与输出之间≥2000VAC
最小绝缘电压	输入输出与底板≥2000VAC
绝缘电阻	1000MΩ(500VDC)
工作环境温度	-40~80℃

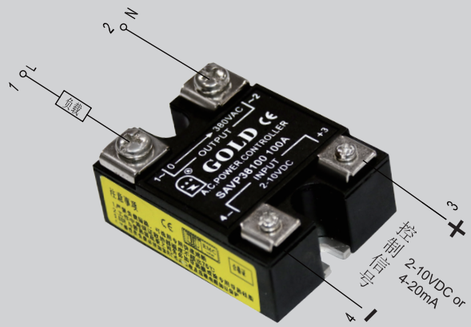
产品尺寸图 Product dimension diagram

单位(mm)



长宽高:57.5mm*44mm*28.5mm

产品接线图 Product wiring diagram



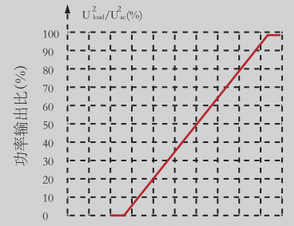
产品用途 Product purpose

该系列产品主要应用于照明设备的灯光调节,民用工业加热的温度控制以及电动机控速,吸塑机等场合。

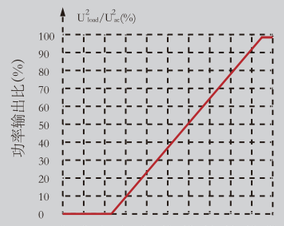
This series of products is mainly used for lighting equipment lighting adjustment, temperature control of civil industrial heating, motor speed control, vacuum molding machines and other occasions.

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固特电气 GOLD ELECTRIC

产品曲线图 Product curve chart

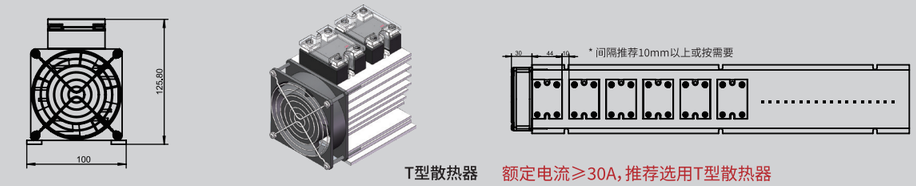


2-10VDC电压控制

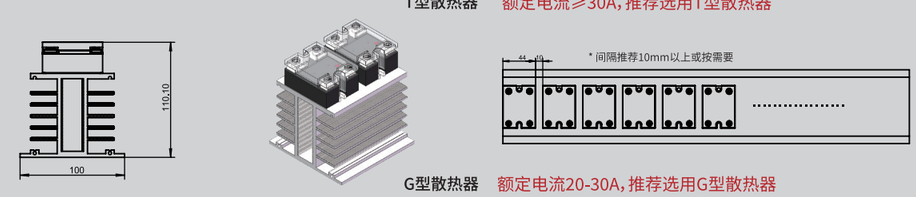


4-20mA电流控制

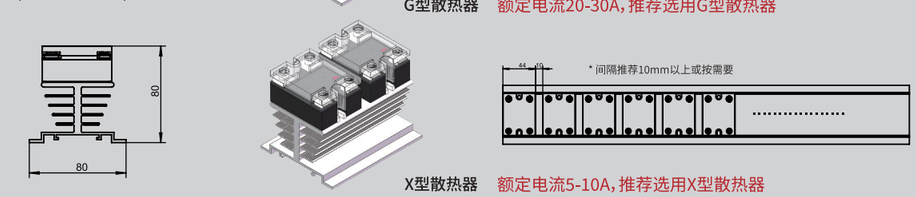
推荐散热器 Recommended radiator



T型散热器 额定电流≥30A,推荐选用T型散热器

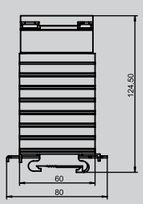


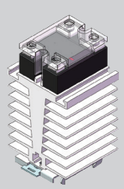
G型散热器 额定电流20-30A,推荐选用G型散热器



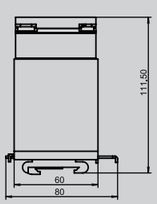
X型散热器 额定电流5-10A,推荐选用X型散热器

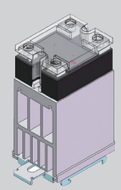
备注:风扇可选装,另提供其他规格散热器组装可与我司业务联系沟通。





CH型卡座式散热器





CR型卡座式散热器

SAVPXX-L升级款单相调压模块

SAVPXX-L Upgraded Single phase Voltage Regulating Module

CE
产品具备欧盟CE认证

- 内置芯片移相调节，低压段线性调节更佳
- 内置阻容吸收回路，浪涌吸收保护更可靠
- 国际标准化安装尺寸
- LED指示工作状态
- 环氧树脂灌胶，抗腐蚀、抗爆能力强
- 阻燃外壳配置安全防护罩
- 输入输出端光电隔离
- 输入4-20mA,2-10VDC可选，输出220VAC.380VAC可选



升级款

全新移相调节电路设计，电压调节线性更平稳

产品命名规则

S	A	V	P	**	**	L
SSR(固态继电器)	A:交流输出	V:调压型	P:方型	负载电压 22:220VAC 38:380VAC	负载电流 10:10A … 120:120A	L:升级款

产品选型 Product Selection

产品型号	负载电压	负载电流	控制方式	绝缘电压	负载压降
SAVP2210-L	0-220VAC	10A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP2220-L	0-220VAC	15A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP2225-L	0-220VAC	25A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP2240-L	0-220VAC	40A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP2260-L	0-220VAC	60A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP2280-L	0-220VAC	80A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP22100-L	0-220VAC	100A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP22120-L	0-220VAC	120A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC

坚持更高标准 追求卓越品质
固特电气 GOLD ELECTRIC

产品型号	负载电压	负载电流	控制方式	绝缘电压	负载压降
SAVP3810-L	0-380VAC	10A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP3820-L	0-380VAC	15A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP3825-L	0-380VAC	25A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP3840-L	0-380VAC	40A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP3860-L	0-380VAC	60A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP3880-L	0-380VAC	80A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP38100-L	0-380VAC	100A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAVP38120-L	0-380VAC	120A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC

产品参数 Product parameters

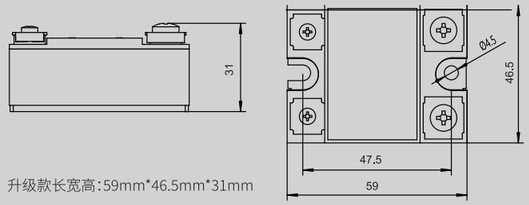
输入参数			
控制信号参数	电压控制	电压控制	2-10VDC
		导通电压	2.5VDC
		关断电压	2VDC
输出参数			
控制信号参数	电流控制	电压控制	4-20mA
		导通电压	4.6mA
		关断电压	4mA

输出参数		
负载电压调节范围	SAVP22系列	SAVP38系列
	0-220VAC	0-380VAC
最小导通电流	50mA	
最大通态压降	2VAC	
最大断态电流	5mA	
断态电压上升率dv/dt	500V/us	
通断时间	≤10ms	
工作频率	45-65HZ	

其它参数	
最小隔离电压	输入与输出之间≥2000VAC
最小绝缘电压	输入输出与底板≥2000VAC
绝缘电阻	1000MΩ(500VDC)
工作环境温度	-40~80℃

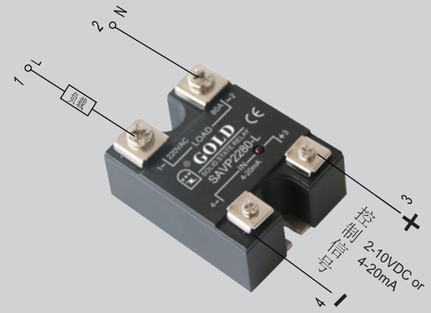
产品尺寸图 Product dimension diagram

单位(mm)



升级款长宽高:59mm*46.5mm*31mm

产品接线图 Product wiring diagram



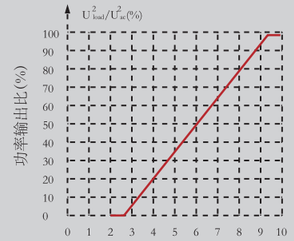
产品用途 Product purpose

该系列产品主要应用于照明设备的灯光调节,民用工业加热的温度控制以及电动机控速,吸塑机等场合。

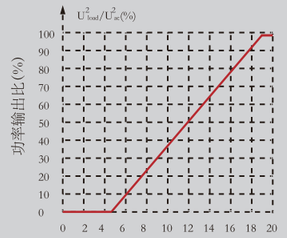
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固特电气 GOLD ELECTRIC

产品曲线图 Product curve chart

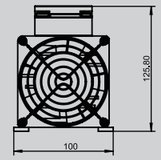


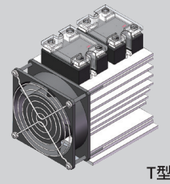
2-10VDC电压控制

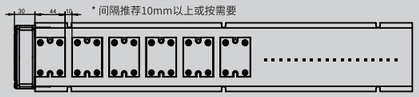


4-20mA电流控制

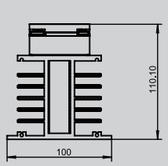
推荐散热器 Recommended radiator

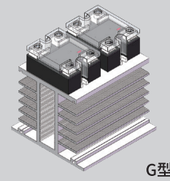


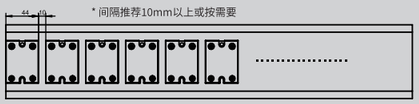




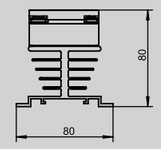
T型散热器 额定电流≥30A,推荐选用T型散热器

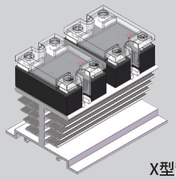


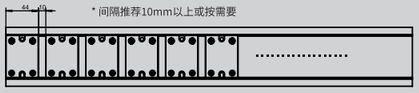




G型散热器 额定电流20-30A,推荐选用G型散热器

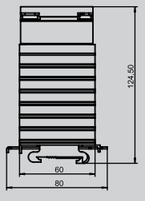


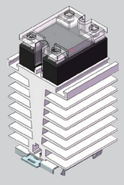




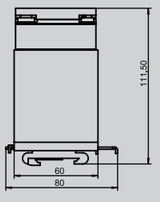
X型散热器 额定电流5-10A,推荐选用X型散热器

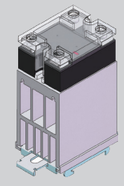
备注:风扇可选装,另提供其他规格散热器组装可与我司业务联系沟通。





CH型卡座式散热器





CR型卡座式散热器

SAWP系列单相交流固态调压模块

SAWP series single-phase AC solid-state voltage regulation module

CE
产品具备欧盟CE认证

- PWM占空比调节输出
- 内置阻容吸收回路，浪涌吸收保护更可靠
- 国际标准化安装尺寸
- LED指示工作状态
- 环氧树脂灌胶，抗腐蚀、抗爆能力强
- 阻燃外壳配置安全防护罩
- 输入输出端光电隔离
- 控制信号2-10VDC、4-20mA
- 输出220VAC，380VAC可选



产品命名规则

S	A	W	P	**	**
SSR(固态继电器)	A:交流输出	W:PWM	P:方型	负载电压 22:220VAC 38:380VAC	负载电流 10:10A … 120:120A

产品选型 Product Selection

产品型号	负载电压	负载电流	控制方式	绝缘电压	负载压降
SAWP2210	0-220VAC	10A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP2220	0-220VAC	15A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP2225	0-220VAC	25A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP2240	0-220VAC	40A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP2260	0-220VAC	60A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP2280	0-220VAC	80A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP22100	0-220VAC	100A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP22120	0-220VAC	120A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC

坚持更高标准 追求卓越品质

固特电气 GOLD ELECTRIC

产品型号	负载电压	负载电流	控制方式	绝缘电压	负载压降
SAWP3810	0-380VAC	10A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP3820	0-380VAC	15A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP3825	0-380VAC	25A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP3840	0-380VAC	40A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP3860	0-380VAC	60A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP3880	0-380VAC	80A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP38100	0-380VAC	100A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC
SAWP38120	0-380VAC	120A	2-10VDC or 4-20mA	≥2000VAC	≤2VAC

产品参数 Product parameters

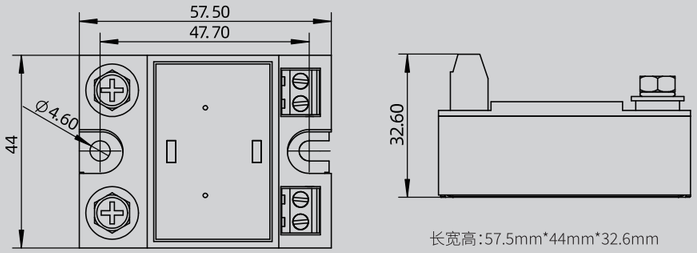
输入参数			
控制信号参数	电压控制	电压控制	2-10VDC
		导通电压	2.5VDC
		关断电压	2VDC
输出参数			
控制信号参数	电流控制	电流控制	4-20mA
		导通电流	4.6mA
		关断电流	4mA

输出参数		
负载电压 调节范围	SAWP22系列	SAWP38系列
	0-220VAC	0-380VAC
最小导通电流	50mA	
最大通态压降	2VAC	
最大断态电流	5mA	
断态电压上升率dv/dt	500V/us	
通断时间	≤10ms	
工作频率	45-65HZ	
其它参数		
最小隔离电压	输入与输出之间≥2000VAC	
最小绝缘电压	输入输出与底板≥2000VAC	
绝缘电阻	1000MΩ(500VDC)	
工作环境温度	-40~80℃	

坚持更高标准 追求卓越品质
固特电气 GOLD ELECTRIC

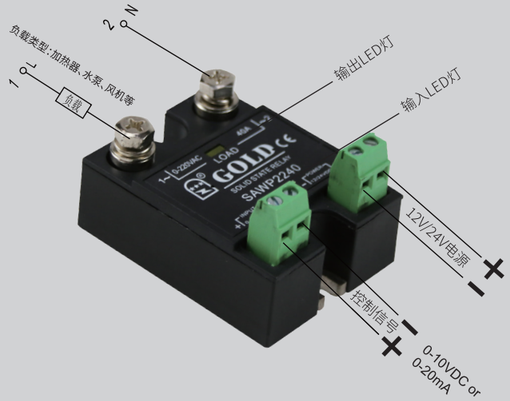
产品尺寸图 Product dimension diagram

单位(mm)



长宽高:57.5mm*44mm*32.6mm

产品接线图 Product wiring diagram

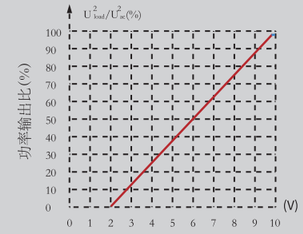


产品用途 Product purpose

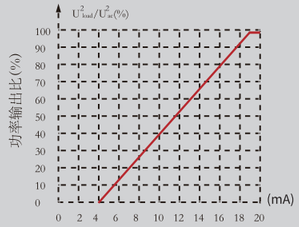
该系列产品主要应用于电加热、风机、水泵等单相精确控制。

This series of products is mainly used for single-phase precise control of electric heating, fans, water pumps, etc.

产品曲线图 Product curve chart

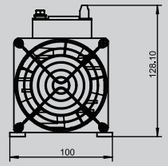


2-10VDC电压控制

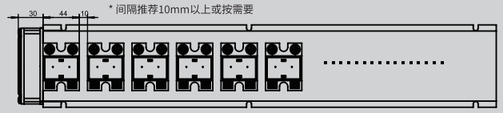


4-20mA电流控制

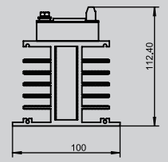
推荐散热器 Recommended radiator

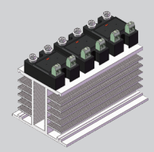


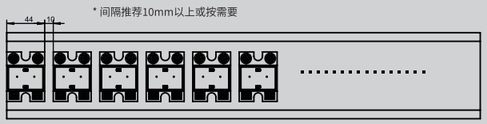




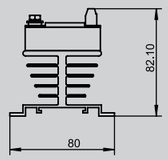
T型散热器 额定电流≥30A,推荐选用T型散热器

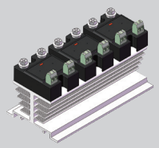


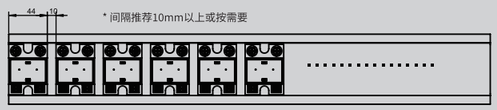




G型散热器 额定电流20-30A,推荐选用G型散热器

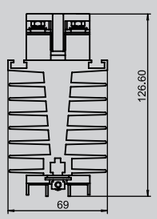


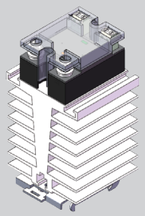




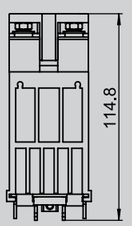
X型散热器 额定电流5-10A,推荐选用X型散热器

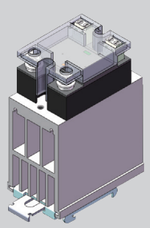
备注:风扇可选装,另提供其他规格散热器组装可与我司业务联系沟通。





CH型卡座式散热器





CR型卡座式散热器

CTH系列三相调压控制器

CTH series voltage regulating controller

产品具备欧盟CE认证

实用新型专利号 2015204810332

- 面板多只LED指示灯，显示调压控制器的工作状态及故障原因
- PC板采用SMD贴片原件，抗干扰性佳，故障率低
- 内含缓启动功能，急速变化时更平稳，使元器件更耐用
- 比例式线性输出，控温精确，精度0.3%符合各种负载要求
- 整机采用铝合金外壳，散热效果佳，100%的引导风扇气流散热
- 输入方式:4-20mA、1-5VDC、2-10VDC三种方式
  由P1JUMP自由切换选择无需更换主机。
- 全系列内置快速保险丝及过热停止输出保护开关
  保护调压控制器和负载。
- PC板AC1 AC2端子输入电源电压200-240VAC
- 主电源与PC板工作电压无相序先后关系，
  使用方便(50HZ-60HZ自动辩识)。



产品选型 Product Selection

产品型号	额定电压	每相额定电流	内置模块	散热器	安装孔距(mm)	外形尺寸(mm) (长*宽*高)	保险丝 规格(A)	负载最小电阻
CTH-F-10KW	380VAC	18A	MDTX55A	F150	100*100	180×110×161	20	43.3Ω
CTH-F-15KW	380VAC	26A	MDTX70A	F180	130*100	210×110×161	32	28.9Ω
CTH-F-20KW	380VAC	35A	MDTX90A	F180	130*100	210×110×161	40	21.6Ω
CTH-F-25KW	380VAC	45A	MDTX110A	F210	160*100	240×110×161	50	17.4Ω

产品型号	额定电压	每相额定电流	内置模块	散热器	安装孔距(mm)	外形尺寸(mm) (长*宽*高)	保险丝 规格(A)	负载最小电阻
CTH-E-30KW	380VAC	53A	MTDX140A	E210	160*128	255×139×191	63	14.4Ω
CTH-E-50KW	380VAC	90A	MTDX220A	E250	200*128	295×139×191	100	8.7Ω
CTH-E-70KW	380VAC	125A	MTDX260A	E300	250*128	345×139×191	140	6.2Ω
CTH-E-90KW	380VAC	160A	MTDX320A	E350	300*128	395×139×191	180	4.8Ω
CTH-E-110KW	380VAC	195A	MTDX400A	E400	350*128	490×139×191	200	3.9Ω

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固特电气 GOLD ELECTRIC

产品型号	额定电压	每相额定电流	内置模块	散热器	安装孔距(mm)	外形尺寸(mm) (长*宽*高)	保险丝 规格(A)	负载最小电阻
CTH-K-70KW	380VAC	140A	MDTX260A	K300	250*200	345×210×210	140	5.4Ω
CTH-K-90KW	380VAC	175A	MDTX320A	K350	300*200	395×210×210	175	4.3Ω
CTH-K-110KW	380VAC	210A	MDTX400A	K400	350*200	490×210×210	200	3.6Ω
CTH-K-130KW	380VAC	230A	MDTX500A	K400	350*200	490×210×210	250	3.3Ω

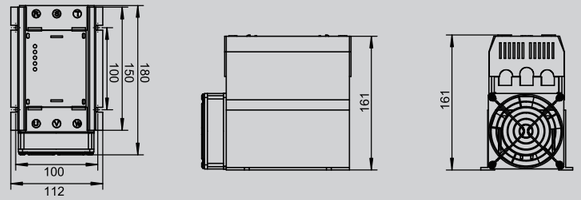
注:本产品仅适用电加热负载，选型时只要小于额定值均可选择。表格中额定电流一项已包括15%的过载设计余量。用户在选购时应说明控制方式，以便出厂时调整到最佳状态。控制方式为4-20mA电流调节、1-5VDC电压调节、2-10VDC电压调节等三种控制方式可供选择。110KW所配保险丝因外型结构问题，控制器内无法安装，发货时可提供给用户安装外接使用。

产品尺寸图 Product dimension diagram

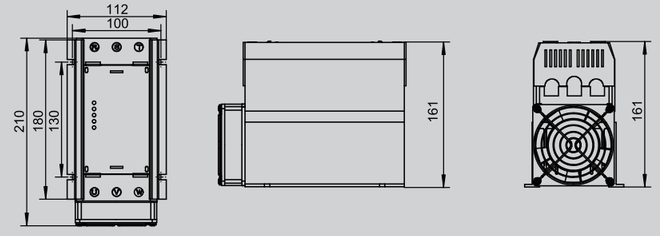
单位(mm)

CTH-F-型

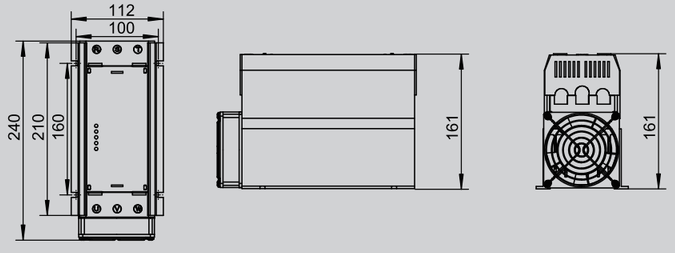
长宽高:180mm*110mm*161mm
CTH-F-10KW



长宽高:210mm*110mm*161mm
CTH-F-15KW/20KW



长宽高:240mm*110mm*161mm
CTH-F-25KW

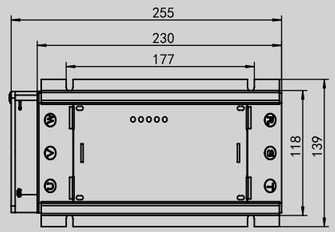


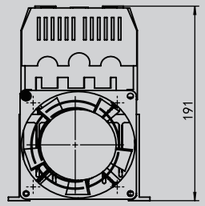
产品尺寸图 Product dimension diagram

CTH-E-型

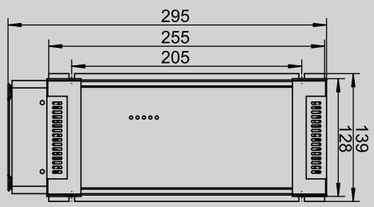
单位(mm)

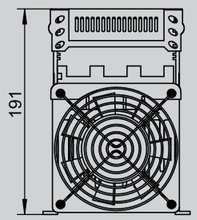
长宽高:255mm*139mm*191mm
CTH-E-30KW



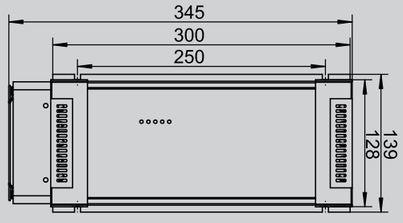


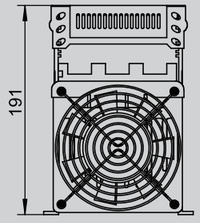
长宽高:295mm*139mm*191mm
CTH-E-50KW



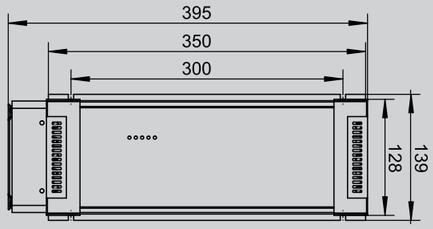


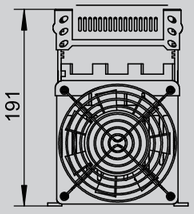
长宽高:345mm*139mm*191mm
CTH-E-70KW





长宽高:395mm*139mm*191mm
CTH-E-90KW



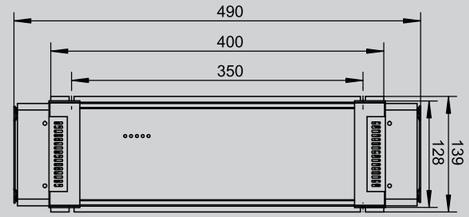


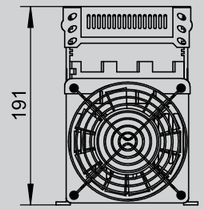
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产品尺寸图 Product dimension diagram

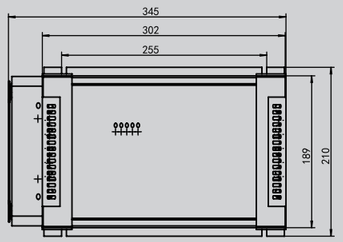
单位(mm)

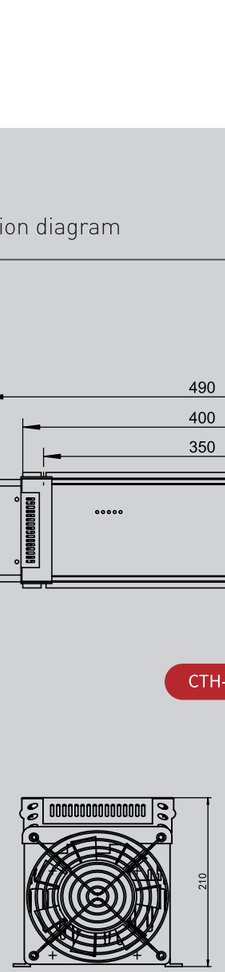
长宽高:490mm*139mm*191mm
CTH-E-110KW



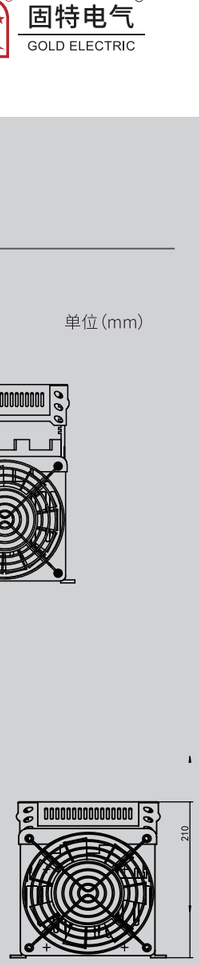


CTH-K-型

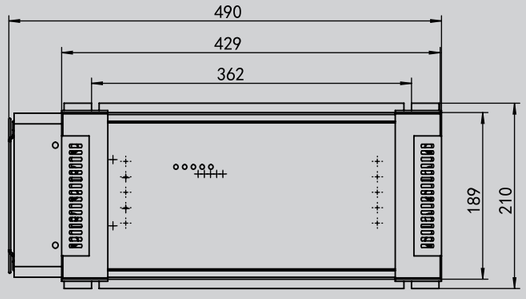


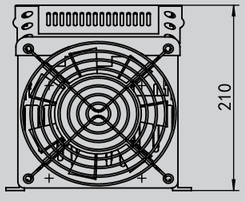


长宽高:345mm*210mm*210mm
CTH-K-70KW



长宽高:395mm*210mm*210mm
CTH-K-90KW





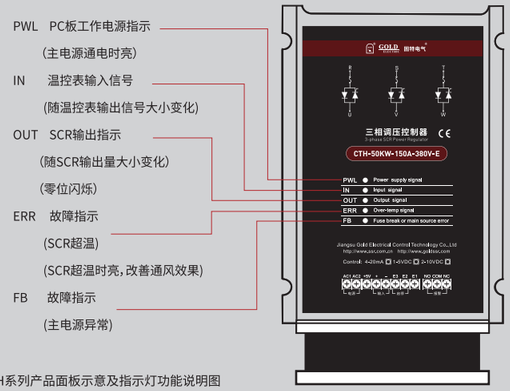
长宽高:490mm*210mm*210mm
CTH-K-110/130KW

产品用途 Product purpose

CTH系列功率控制器体积小、操作简单。主要应用于烧结炉、辊道炉、钢化炉、纤维炉、网带炉、烘干箱等电加热行业领域，实现电压、电流、功率的控制和调节。

The CTH series power controller has a small size and simple operation. Mainly used in the electric heating industry such as sintering furnaces, roller furnaces, tempering furnaces, fiber furnaces, mesh belt furnaces, drying boxes, etc., to achieve control and adjustment of voltage, current, and power.

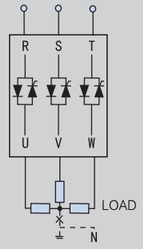
面板说明 Panel Description



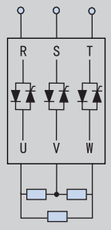
CTH系列产品面板示意及指示灯功能说明图

产品接线图 Product wiring diagram

1、电压380V输入
电热丝220V



2、电压380V输入
电热丝380V



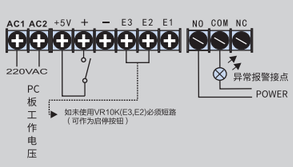
负载共线不可接零线或者地线
否则会造成SCR无法关断而失去控制

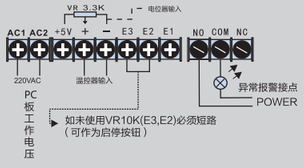
输入信号INPUT(使用万用表测量+-端子电阻):

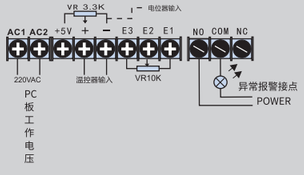
4-20mA 输入阻抗250Ω
1-5VDC 输入阻抗30KΩ
2-10VDC 输入阻抗12KΩ

功能调整:

BIAS（VR4） 最小输出量
MAX（VR5） 最大输出量
VR1 VR2 VR3 不需做调整







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固特电气 GOLD ELECTRIC

面板说明 Panel Description



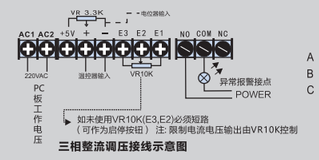
Z-CTH系列产品面板示意及指示灯功能说明图

产品接线图 Product wiring diagram

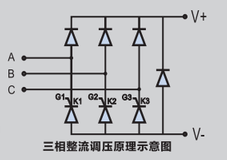
附加型:Z-CTH三相整流调压接线示意图

输入信号INPUT:
使用万用表测量+,-端子电阻
4-20mA 输入阻抗250Ω
1-5VDC 输入阻抗30KΩ
2-10VDC 输入阻抗12KΩ

功能调整:
BIAS（VR4）最小输出量
MAX（VR5）最大输出量
VR1 VR2 VR3 不需做调整



三相整流调压接线示意图



三相整流调压原理示意图

使用注意事项 Precautions for use

选型前注意事项

用户订货时须说明: (半控调压不适用于电机)

- 负载额定功率 1、额定输入电压 2、额定工作电流
- 控制方式选择:(可自由切换,无需更换主机)

1、手动电位器调节：2.2-4.7K
2、电流自动控制型号：4-20mA
3、电压自动控制型号：1-5VDC、2-10VDC



CTH系列三相数显调压控制器(485通讯)

three-phase digital voltage regulator controller (485 communication)

CE 产品具备欧盟CE认证

- 面板多只LED指示灯，显示调压控制器的工作状态及故障原因
- PC板采用SMD贴片原件，抗干扰性佳，故障率低
- 内含缓启动功能，急速变化时更平稳，使元器件更耐用
- 比例式线性输出，控温精确，精度0.3%符合各种负载要求
- 整机采用铝合金外壳，散热效果佳，100%的引导风扇气流散热
- 输入方式:4-20mA、1-5VDC、2-10VDC三种方式
- 由P1JUMP自由切换选择无需更换主机。
- 配置数显显示输出百分比，设置最大输出百分比(0-100%)及软启动时间
- 全系列内置快速保险丝及过热停止输出保护开关保护调压控制器和负载。
- PC板AC1 AC2端子输入电源电压200-240VAC
- 主电源与PC板工作电压无相序先后关系，使用方便(50HZ-60HZ自动辩识)。



可选黑色散热器

产品选型 Product Selection

产品型号	额定电压	每相额定电流	内置模块	散热器	安装孔距(mm)	外形尺寸(mm) (长*宽*高)	保险丝 规格(A)	负载最小电阻
CTH-50KW-E	380V	90A	MTDX220A	E250	200*128	295×139×191	100	8.7Ω
CTH-70KW-E	380V	125A	MTDX260A	E300	250*128	345×139×191	140	6.2Ω
CTH-90KW-E	380V	160A	MTDX320A	E350	300*128	395×139×191	180	4.8Ω

产品用途 Product purpose

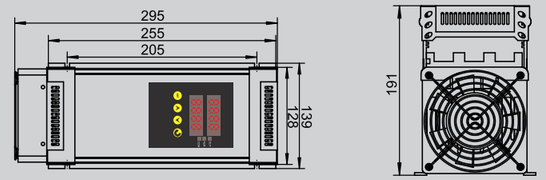
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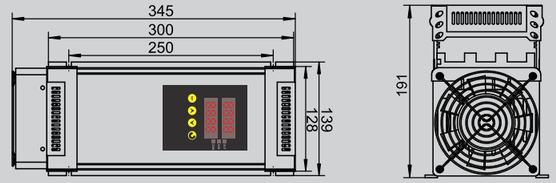
固特电气 GOLD ELECTRIC
坚持更高标准 追求卓越品质

产品尺寸图 Product dimension diagram

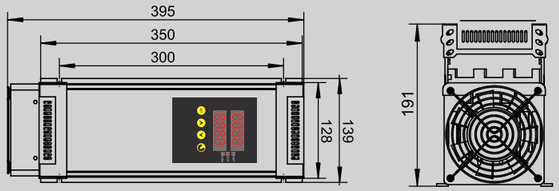
长宽高:295mm*139mm*191mm
CTH-50KW-E



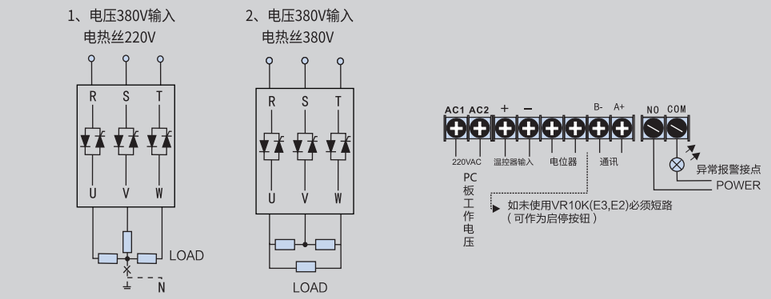
长宽高:345mm*139mm*191mm
CTH-70KW-E



长宽高:395mm*139mm*191mm
CTH-90KW-E

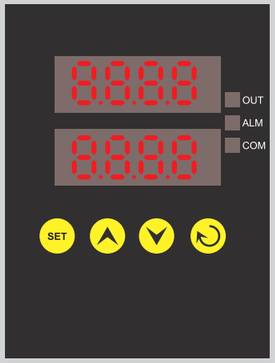


产品接线图 Product wiring diagram



负载共线不可接零线或者地线
否则会造成SCR无法关断而失去控制

面板说明 Panel Description



数显表

上排数码管:当前输入百分比显示/参数名显示
下排数码管:当前输入、输出功率显示/参数表显示
OUT指示灯:绿色,当电力调整器工作时,此灯亮
ALM指示灯:红色,当电力调整器发生异常报警时,此灯亮
COM指示灯:黄色,当通讯联机时,此灯闪烁

SET 按键:按2秒进入参数设定菜单

按键:参数往后切换/数据增加键

按键:参数往千切换/数据减少键

:数据修改确认键在初始画面可切换查看P参数

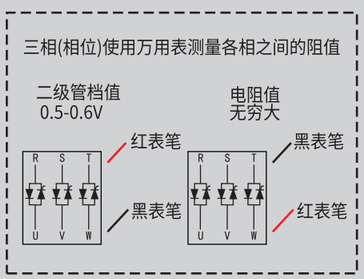
F100:限幅值
t005 :软启动
PPN2:输入信号切换
BAUD:波特率
PART:校验位
PCOL:通讯站号
Ct:互感器匝数比
PN1:厂家预留(出厂为0)
LCK:厂家预留(出厂为0)

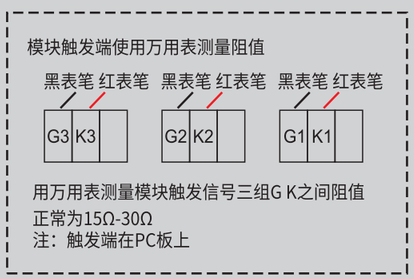
其他说明 Product wiring diagram

1、负载测试

负载未接或者负载电流小于0.6A以下,SCR无法正常工作。(负载务必大于0.6A)

2、模块组正常判断(确认保险丝是正常状态下将负载拆除)





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其他说明 Product wiring diagram

3、三相电压电流不平衡

(1)、关断电源，测量负载电阻，三相是否平衡。如果负载三相不平衡就会造成电流不平衡。
(2)、三相电源电压不平衡，是否是使用电尖端或是发电机电源的原因造成。
(3)、SCR内部故障，可能有某一相晶闸管直通或者是无触发原因造成。遇此情况请与本公司联系。
(4)、PC板元器件损坏等其它原因。

4、人为疏忽造成故障现象

(1)、负载短路造成保险丝烧断。安装完成请先用万用表测试负载是否平衡，无短路现象、电压是否正确再送电测试。
(2)、三相（RST）及负载（UVW）端子未拧紧造成故障。因为SCR为大电流产品，如果端子螺丝未拧紧导致的大电流拉弧将使电流增加数倍，从而造成端子、保险丝、模块等烧毁。

CKA系列三相调压控制器

CKA series voltage regulator controller

CE
产品具备欧盟CE认证

- 缓启动，缓关断功能
- 限流功能:当用户工作电流大于额定电流的105%时，调压控制器会自动减小其导通角，限制输出电流在额定电流的105%内。
- 恒流功能:当采用电流反馈时，若给定信号不变，即使负载随环境变化而改变，输出电流仍能在额定电流的范围内任何一点达到恒定电流的目的。
- 过流保护功能:当工作电流峰值大于额定电流的150%时，调压控制器将会迅速截止全部输出，并且完成自锁。
- 缺相保护功能:当调压控制器的三相输入电源缺少其中一相的时候，调压控制器会迅速自动截止全部输出，并且完成自锁。
- 过热保护功能:若环境温度偏高或风机停转时，散热器温度超过80°C时，过热报警指示灯亮。



产品选型 Product Selection

产品型号	每相额定电流	外形尺寸(mm) (长*宽*高)	安装孔距(mm)	内置模块	负载最小电阻
CKA40KW	70A	330*265*200	303*150	MTX140A*3	10.8Ω
CKA50KW	90A	330*265*200	303*150	MTX180A*3	8.7Ω
CKA75KW	130A	330*265*200	303*150	MTX220A*3	5.8Ω
CKA100KW	175A	370*330*292	345*200	MTX320A*3	4.3Ω
CKA120KW	210A	370*330*292	345*200	MTX400A*3	3.6Ω
CKA150KW	260A	370*330*292	345*200	MTX500A*3	2.9Ω
CKA200KW	350A	370*330*292	345*200	MTX600A*3	2.2Ω
CKA250KW	435A	420*390*330	385*300	MTX800A*3	1.7Ω
CKA300KW	520A	420*390*330	385*300	MTX1000A*3	1.4Ω

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固特电气 GOLD ELECTRIC

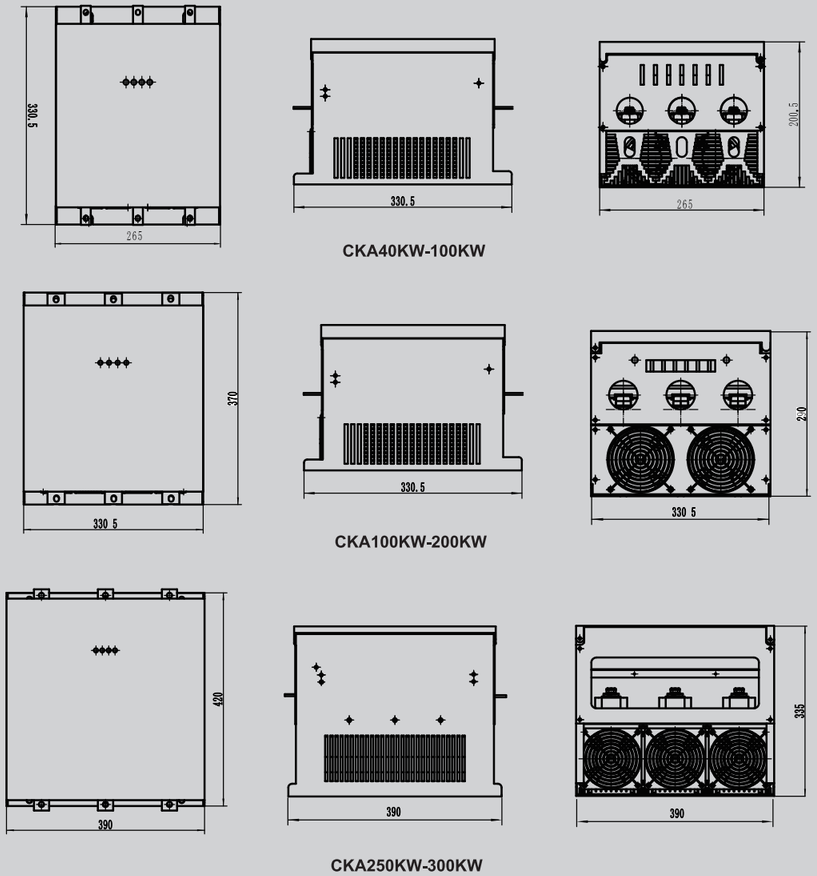
产品用途 Product purpose

CKA系列调压控制器产品主要应用于工业电炉、机械设备、玻璃工业、晶体生长、汽车工业、化学工业等行业领域。

The CKA series pressure regulating controller products are mainly used in industrial electric furnaces, mechanical equipment, glass industry, crystal growth, automotive industry, chemical industry and other industries.

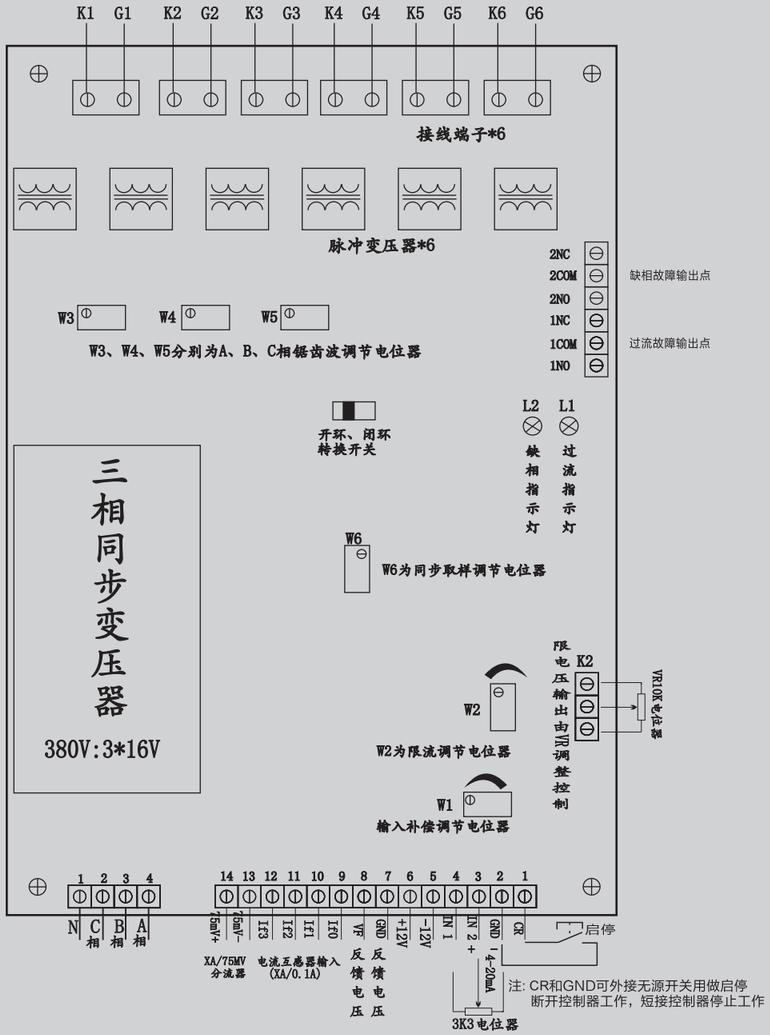
产品尺寸图 Product dimension diagram

单位(mm)



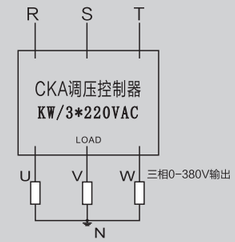
坚持更高标准 追求卓越品质
固特电气 GOLD ELECTRIC

面板说明 Panel Description



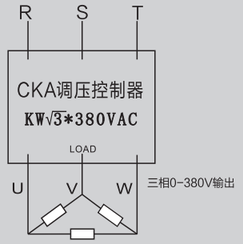
产品接线图 Product wiring diagram

1、电压380V输入电热丝220V



负载星型接线示意图(可选择接零或不接零)

2、电压380V输入电热丝380V



负载三角型接线示意图



CKA全控板电位器功能调节说明图



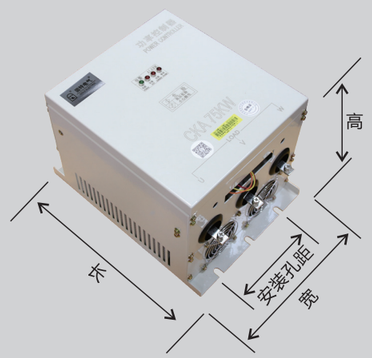
CKA调压控制器外接端子排线示意图

注意事项 Product precautions

选型前注意事项

用户订货时须说明：

- 负载额定功率
  - 1、额定输入电压　2、额定工作电流
- 控制方式选择：(手自动切换，自动控制以下可选)
  - 1、手动电位器调节：2.2-4.7K
  - 2、电流自动控制型号：4-20mA
  - 3、电压自动控制型号：0-10VDC,2-10VDC



CKA系列三相数显调压控制器(485通讯)

Three-phase Digital display voltage regulator controller (485 communication)

CE 产品具备欧盟CE认证

- 具备485通讯及数显功能，缓启动，缓关断功能
- 限流功能:当用户工作电流大于额定电流的105%时，调压控制器会自动减小其导通角，限制输出电流在额定电流的105%内。
- 恒流功能:当采用电流反馈时，若给定信号不变，即使负载随环境变化而改变，输出电流仍能在额定电流的范围内任何一点达到恒定电流的目的。
- 过流保护功能:当工作电流峰值大于额定电流的150%时，调压控制器将会迅速截止全部输出，并且完成自锁。
- 缺相保护功能:当调压控制器的三相输入电源缺少其中一相的时侯，调压控制器会迅速自动截止全部输出，并且完成自锁。
- 过热保护功能:若环境温度偏高或风机停转时，散热器温度超过80°C时，过热报警指示灯亮。



产品选型 Product Selection

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CKA-120KW-E	210A	370*330*292	345*200	MTX400A*3	3.6Ω
CKA-150KW-E	260A	370*330*292	345*200	MTX500A*3	2.9Ω
CKA-200KW-E	350A	370*330*292	345*200	MTX600A*3	2.2Ω
CKA-250KW-E	435A	420*390*330	385*300	MTX800A*3	1.7Ω
CKA-300KW-E	520A	420*390*330	385*300	MTX1000A*3	1.4Ω

坚持更高标准 追求卓越品质
固特电气 GOLD ELECTRIC

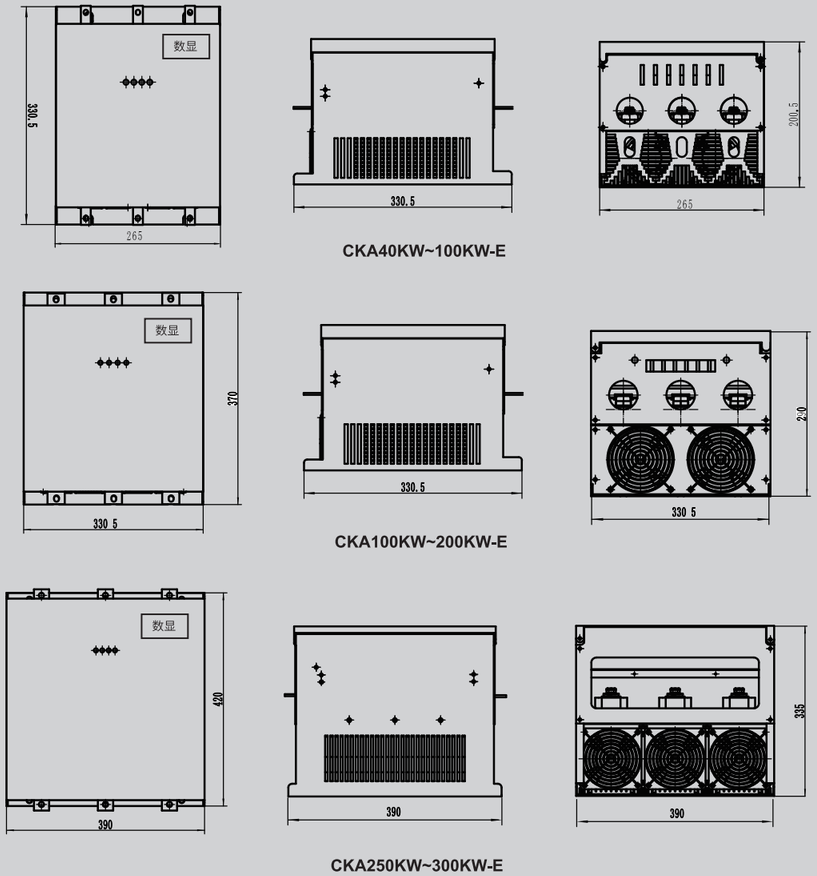
产品用途 Product purpose

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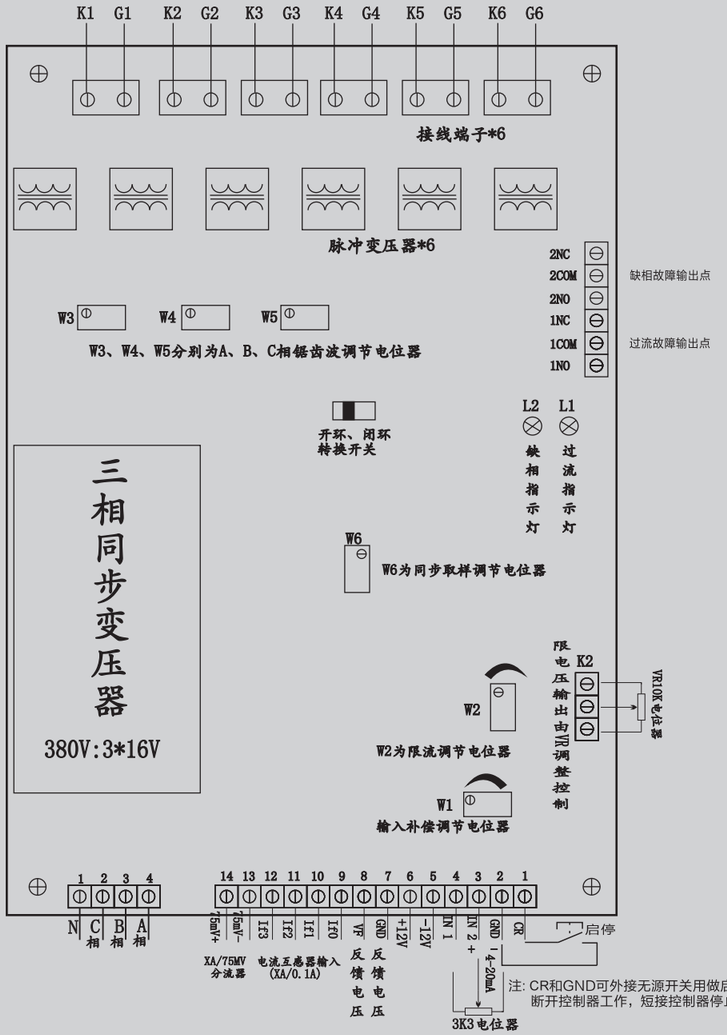
产品尺寸图 Product dimension diagram

单位(mm)



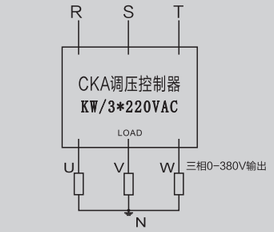
坚持更高标准 追求卓越品质
固特电气 GOLD ELECTRIC

面板说明 Panel Description



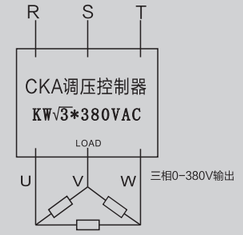
产品接线图 Product wiring diagram

1、电压380V输入电热丝220V



负载星型接线示意图(可选择接零或不接零)

2、电压380V输入电热丝380V



负载三角型接线示意图



CKA全控板电位器功能调节说明图



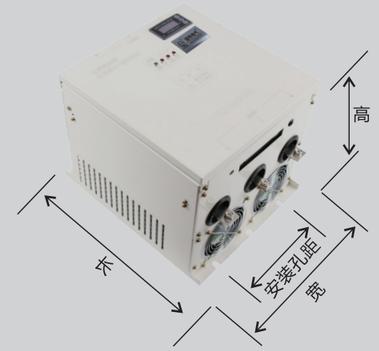
CKA调压控制器外接端子排线示意图

注意事项 Product precautions

选型前注意事项

用户订货时须说明:

- 负载额定功率
  1、额定输入电压　2、额定工作电流
- 控制方式选择:(手自动切换，自动控制以下可选)
  1、手动电位器调节：2.2-4.7K
  2、电流自动控制型号：4-20mA
  3、电压自动控制型号：0-10VDC,2-10VDC



GOLDEN.S.E ™
Supreme Electric

GOLDEN
ELECTRICTECH

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GSP48XXDA/$^{AA}_{DD}$-C

Horizontal AC Solid State Relay (Flip Version)

GOLDEN solid-state relay



Appearance patent

- Exclusive flip design
- High temperature flame-retardant material
- Imported high-performance chips
- Running indicator light display

Product purpose

Widely used in automation control fields such as electric furnace heating constant temperature systems, CNC machinery, plastic machinery, food machinery, packaging machinery, textile machinery, petrochemical equipment, entertainment facilities, etc., suitable for various resistive, inductive, and capacitive loads.

Product Advantages

VO grade flame retardant - safer and more reliable, stronger isolation - high-precision imported optocoupler, no sparking - no mechanical electric shock action, silent and noiseless - no noise interference during operation, built-in MOV clamp for high-frequency voltage - safe and worry free, first-line brand thyristor - reduces power consumption.

Product Naming Rules

G	S	P	**	**	A/D	A/D	–	C
GOLDEN	Solid State Relay	P: Square shape	Load voltage 24:40-240VAC 48:40-530VAC 66:40-660VAC	LOAD 05:5A … 80:80A	Control signal D:4-32VDC A:90-280VAC	A:AC output D:DC output		C:Clamshell

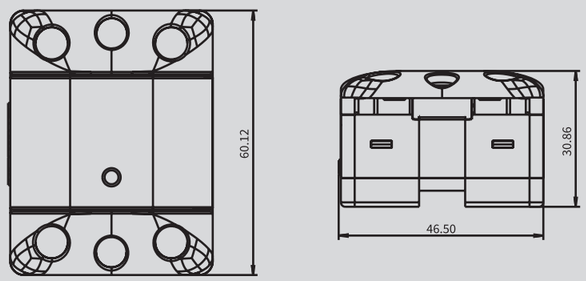
Product Selection Table

Product model	Load voltage	LOAD	Isolation Voltage	Insulation voltage	Control voltage	Action status indication
GSP4805DA-C	40-530VAC	05A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4810DA-C	40-530VAC	10A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4815DA-C	40-530VAC	15A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4820DA-C	40-530VAC	20A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4825DA-C	40-530VAC	25A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4840DA-C	40-530VAC	40A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4860DA-C	40-530VAC	60A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4880DA-C	40-530VAC	80A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication

Product parameters

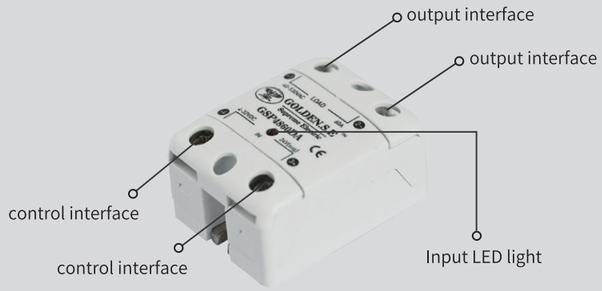
Product wiring diagram	
Control voltage: 4-32VDC	Turn-off voltage: 1VDC
Turn-on voltage: 4VDC	Control Current: 6-25mA (built-in constant current circuit)
Minimum conduction current: 0.1A	Maximum on state pressure drop: 1.5VAC
Maximum off state current: 10mA	Critical rise rate of off state voltage: 500V/us
Maximum conduction time: Random type 10ms Zero crossing type 1/2周期+1ms AC control 40ms	
Maximum shutdown time: DC control 10ms AC control 40ms	
Operating Frequency: 45-65HZ	Minimum isolation voltage: Between input and output ≥ 2500VAC
Minimum insulation voltage: Input and output on the motherboard ≥ 2500VAC	
Insulation resistance: 1000MΩ(500VDC)	Ambient Temperature: -40~80℃

Product dimension diagram

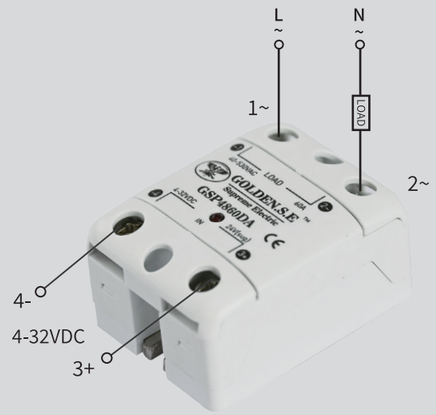


Dimensions (unit: mm)

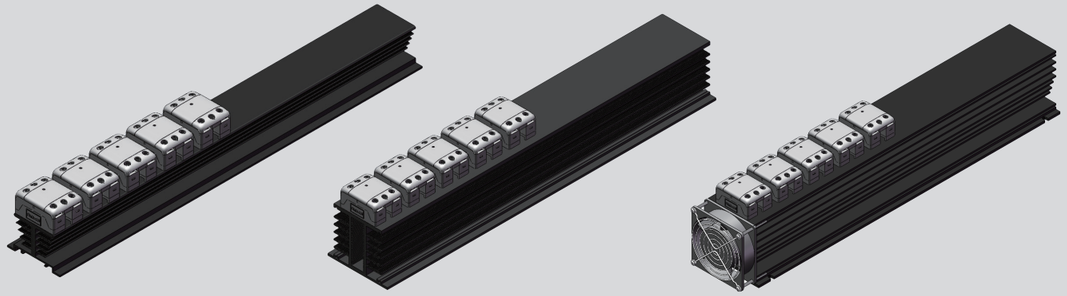
60.12mm*46.5mm*30.95mm



Product wiring diagram



Recommended radiator model



X-shaped radiator

Rated current 5-10A
it is recommended to use X-type radiator

G-type radiator

Rated current 20-30A
it is recommended to use G-type radiator

T-shaped radiator

Rated current > 30A
it is recommended to use a T-shaped radiator

Note: Fans can be optionally installed, and other specifications of heat sinks can be assembled by contacting our business for communication.

Scan now to delve into the advanced technology and extensive applications of Golden Electric in the USA. Instant access to our official website for more up-to-date product information!

GSP48XXDA/AADD

Anti slip solid-state relay

GOLDEN solid-state relay



Appearance patent

- Configure anti misoperation transparent cover
- High temperature flame-retardant material
- Imported high-performance chips
- Running indicator light display

Product purpose

Widely used in automation control fields such as electric furnace heating constant temperature systems, CNC machinery, plastic machinery, food machinery, packaging machinery, textile machinery, petrochemical equipment, entertainment facilities, etc., suitable for various resistive, inductive, and capacitive loads.

Product Advantages

VO grade flame retardant - safer and more reliable, stronger isolation - high-precision imported optocoupler, no sparking - no mechanical electric shock action, silent and noiseless - no noise interference during operation, built-in MOV clamp for high-frequency voltage - safe and worry free, first-line brand thyristor - reduces power consumption.

Product Naming Rules

G	S	P	**	**	A/D	A/D
GOLDEN	Solid State Relay	P: Square shape	Load voltage 24:40-240VAC 48:40-530VAC 66:40-660VAC	LOAD 05:5A … 80:80A	Control signal D:4-32VDC A:90-280VAC	A:AC output D:DC output

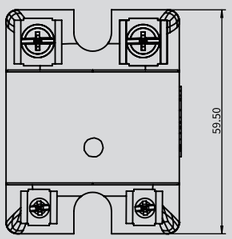
Product Selection Table

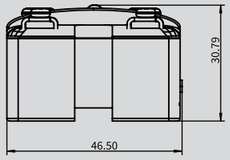
Product model	Load voltage	LOAD	Isolation Voltage	Insulation voltage	Control voltage	Action status indication
GSP4805DA	40-530VAC	05A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4810DA	40-530VAC	10A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4815DA	40-530VAC	15A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4820DA	40-530VAC	20A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4825DA	40-530VAC	25A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4840DA	40-530VAC	40A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4860DA	40-530VAC	60A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4880DA	40-530VAC	80A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication

Product parameters

Product wiring diagram	
Control voltage: 4-32VDC	Turn-off voltage: 1VDC
Turn-on voltage: 4VDC	Control Current: 6-25mA (built-in constant current circuit)
Minimum conduction current: 0.1A	Maximum on state pressure drop: 1.5VAC
Maximum off state current: 10mA	Critical rise rate of off state voltage: 500V/us
Maximum conduction time: Random type 10ms Zero crossing type 1/2周期+1ms AC control 40ms	
Maximum shutdown time: DC control 10ms AC control 40ms	
Operating Frequency: 45-65HZ	Minimum isolation voltage: Between input and output ≥ 2500VAC
Minimum insulation voltage: Input and output on the motherboard ≥ 2500VAC	
Insulation resistance: 1000MΩ(500VDC)	Ambient Temperature: -40~80℃

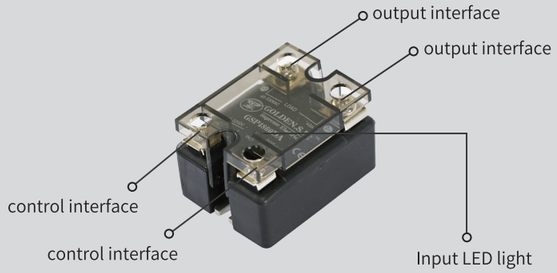
Product dimension diagram



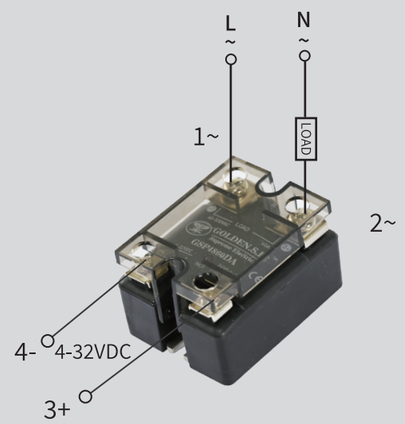


Dimensions (unit: mm)

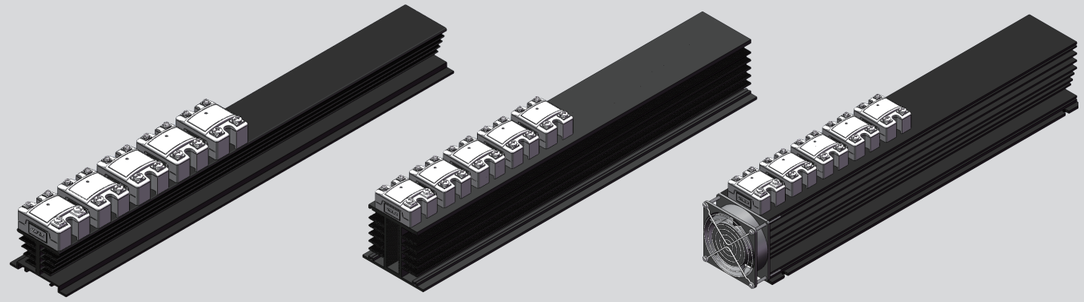
59.5mm*46.5mm*30.79mm



Product wiring diagram



Recommended radiator model



X-shaped radiator

Rated current 5-10A
it is recommended to use X-type radiator

G-type radiator

Rated current 20-30A
it is recommended to use G-type radiator

T-shaped radiator

Rated current > 30A
it is recommended to use a T-shaped radiator

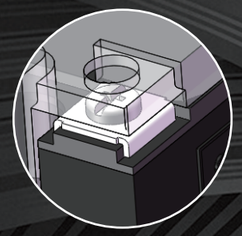
Note: Fans can be optionally installed, and other specifications of heat sinks can be assembled by contacting our business for communication.

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GSP48XXDA/AA DD

Anti slip solid-state relay

GOLDEN solid-state relay



Anti slip design



Appearance patent

- Configure anti misoperation transparent cover
- High temperature flame-retardant material
- Imported high-performance chips
- Running indicator light display

Product purpose

Widely used in automation control fields such as electric furnace heating constant temperature systems, CNC machinery, plastic machinery, food machinery, packaging machinery, textile machinery, petrochemical equipment, entertainment facilities, etc., suitable for various resistive, inductive, and capacitive loads.

Product Advantages

VO grade flame retardant - safer and more reliable, stronger isolation - high-precision imported optocoupler, no sparking - no mechanical electric shock action, silent and noiseless - no noise interference during operation, built-in MOV clamp for high-frequency voltage - safe and worry free, first-line brand thyristor - reduces power consumption.

Product Naming Rules

G	S	P	**	**	A/D	A/D
GOLDEN	Solid State Relay	P: Square shape	Load voltage 24:40-240VAC 48:40-530VAC 66:40-660VAC	LOAD 05:5A … 80:80A	Control signal D:4-32VDC A:90-280VAC	A:AC output D:DC output

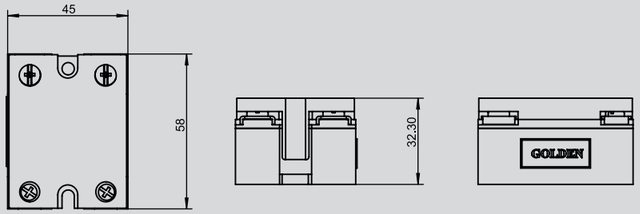
Product Selection Table

Product model	Load voltage	LOAD	Isolation Voltage	Insulation voltage	Control voltage	Action status indication
GSP4805DA	40-530VAC	05A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4810DA	40-530VAC	10A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4815DA	40-530VAC	15A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4820DA	40-530VAC	20A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4825DA	40-530VAC	25A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4840DA	40-530VAC	40A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4860DA	40-530VAC	60A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSP4880DA	40-530VAC	80A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication

Product parameters

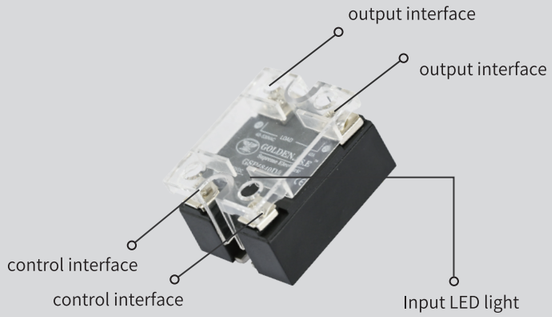
Product wiring diagram	
Control voltage: 4-32VDC	Turn-off voltage: 1VDC
Turn-on voltage: 4VDC	Control Current: 6-25mA (built-in constant current circuit)
Minimum conduction current: 0.1A	Maximum on state pressure drop: 1.5VAC
Maximum off state current: 10mA	Critical rise rate of off state voltage: 500V/us
Maximum conduction time: Random type 10ms Zero crossing type 1/2周期+1ms AC control 40ms	
Maximum shutdown time: DC control 10ms AC control 40ms	
Operating Frequency: 45-65HZ	Minimum isolation voltage: Between input and output ≥ 2500VAC
Minimum insulation voltage: Input and output on the motherboard ≥ 2500VAC	
Insulation resistance: 1000MΩ(500VDC)	Ambient Temperature: -40~80℃

Product dimension diagram

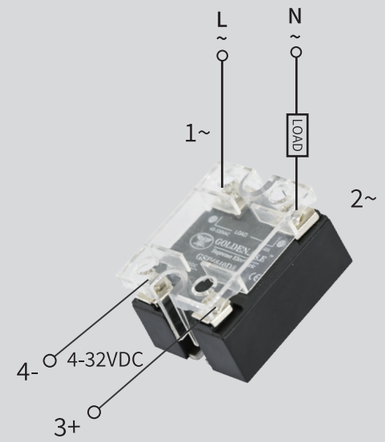


Dimensions (unit: mm)

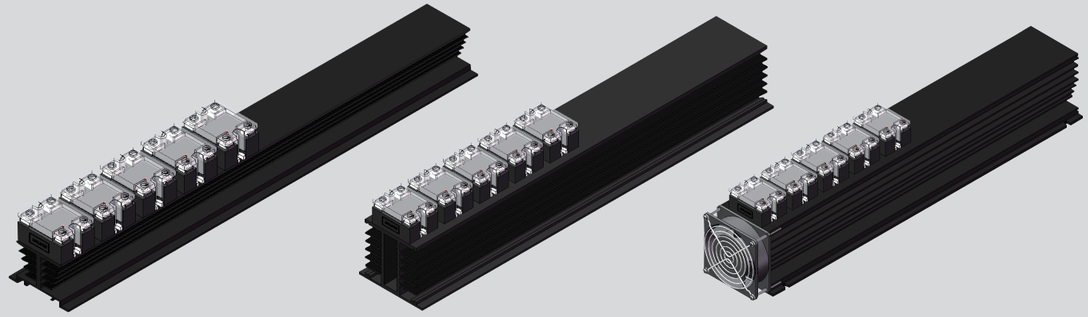
58mm*45mm*32.3mm



Product wiring diagram



Recommended radiator model



X-shaped radiator

Rated current 5-10A
it is recommended to use X-type radiator

G-type radiator

Rated current 20-30A
it is recommended to use G-type radiator

T-shaped radiator

Rated current > 30A
it is recommended to use a T-shaped radiator

Note: Fans can be optionally installed, and other specifications of heat sinks can be assembled by contacting our business for communication.

Scan now to delve into the advanced technology and extensive applications of Golden Electric in the USA. Instant access to our official website for more up-to-date product information!

GST48XXDA/ AA DD

Communication flip type solid-state relay

GOLDEN solid-state relay



Appearance patent

- Flip design
- High temperature flame-retardant material
- Imported high-performance chips
- Running indicator light display

Product purpose

This series of products is widely used in automation control fields such as electric furnace heating constant temperature systems, CNC machinery, plastic machinery, food machinery, packaging machinery, textile machinery, petrochemical equipment, entertainment facilities, etc.

Product Advantages

VO grade flame retardant - safer and more reliable, stronger isolation - high-precision imported optocoupler, no sparking - no mechanical electric shock action, silent and noiseless - no noise interference during operation, built-in MOV clamp for high-frequency voltage - safe and worry free, first-line brand thyristor - reduces power consumption.

Product Naming Rules

G	S	T	**	**	A/D	A/D
GOLDEN	Solid State Relay	T: Flip cover strip type	Load voltage 24:40-240VAC 48:40-530VAC 66:40-660VAC	LOAD 10:10A … 80:80A	Control signal D:4-32VDC A:90-280VAC	A:AC output D:DC output

Product Selection Table

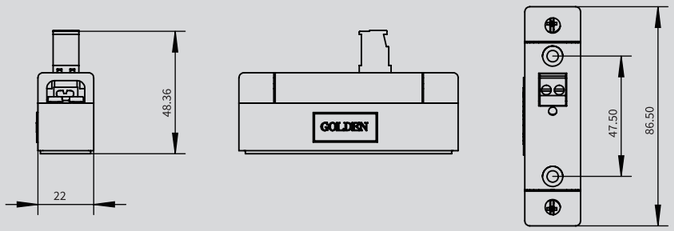
Product model	Load voltage	LOAD	Isolation Voltage	Insulation voltage	Control voltage	Action status indication
GST4810DA	40-530VAC	10A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GST4815DA	40-530VAC	15A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GST4820DA	40-530VAC	20A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GST4825DA	40-530VAC	25A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GST4830DA	40-530VAC	30A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GST4840DA	40-530VAC	40A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GST4860DA	40-530VAC	60A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GST4880DA	40-530VAC	80A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication

Product parameters

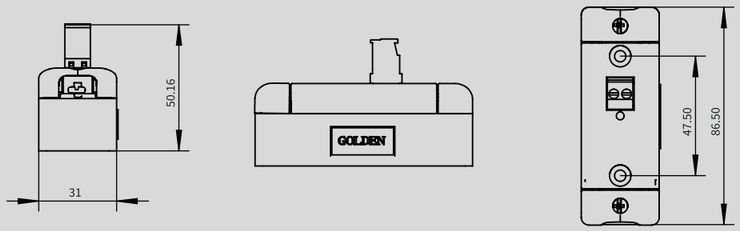
Product wiring diagram	
Control voltage: 4-32VDC	Turn-off voltage: 1VDC
Turn-on voltage: 4VDC	Control Current: 6-25mA (built-in constant current circuit)
Minimum conduction current: 10mA	Maximum on state pressure drop: 1.5VAC
Maximum off state current: 2mA	Critical rise rate of off state voltage: 500V/us
Maximum conduction time: DC control 10ms AC control 40ms	
Maximum shutdown time: DC control 10ms AC control 40ms	
Operating Frequency: 45-65HZ	Minimum isolation voltage: Between input and output ≥ 2500VAC
Minimum insulation voltage: Input and output on the motherboard ≥ 2500VAC	
Insulation resistance: 1000MΩ(500VDC)	Ambient Temperature: -40~80℃

Product dimension diagram

Dimensions (unit: mm)

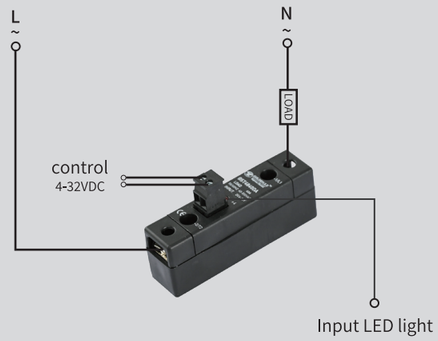


86.5mm*22mm*48.36mm



86.5mm*31mm*50.16mm

Product wiring diagram



Product temperature curve

1. Our company has made great efforts in product quality and reliability. Improper selection or use of semiconductor power devices used inside solid-state relays can still lead to irreparable damage. Due to voltage fluctuations in the power grid (usually+10%) and differences in inductance and capacitance, a certain safety factor needs to be considered when selecting. For example, the long-term working current of electric heating should not exceed 60% of the rated nominal value of SSR current, and the working current of the motor should not exceed 1/7 of the rated nominal value of SSR current.

2. The temperature of the radiator base plate should not exceed 80 degrees during long-term operation. If the ambient temperature is too high, air cooling should be adopted to accelerate air flow and achieve better heat dissipation effect.

3. To prevent the breakdown and damage of solid-state relays caused by load short circuits or overloading of current and voltage during use, it is strongly recommended to install and use matching fast fuses. For inductive loads, it is necessary to install varistors at the solid-state output terminal, and varistors can be added internally during customization.

4. Solid state relays must ensure sufficient and not exceed the nominal triggering voltage and current values during operation, for example, the control terminal should be "4-32VDC", which means the minimum input voltage should not be less than 4VDC and the maximum should not exceed 32VDC. Therefore, special attention should be paid to meeting the triggering requirements of solid-state relays in series or parallel use.

5. Solid state relays should be stored in a ventilated, dry, and non corrosive gas environment, avoiding moisture, rain, falling, and severe impact.

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GSH48XXDA/AA DD

Single phase integrated heat dissipation

GOLDEN solid-state relay



Appearance patent

- Integrated heat dissipation design
- High temperature flame-retardant material
- Imported high-performance chips
- Running indicator light display

Product purpose

This series of products is widely used in automation control fields such as electric furnace heating constant temperature systems, CNC machinery, plastic machinery, food machinery, packaging machinery, textile machinery, petrochemical equipment, entertainment facilities, etc.

Product Advantages

VO grade flame retardant - safer and more reliable, stronger isolation - high-precision imported optocoupler, no sparking - no mechanical electric shock action, silent and noiseless - no noise interference during operation, built-in MOV clamp for high-frequency voltage - safe and worry free, first-line brand thyristor - reduces power consumption.

Product Naming Rules

G	S	H	**	**	A/D	A/D
GOLDEN	Solid State Relay	H: Integration	Load voltage 24:40-240VAC 48:40-530VAC 66:40-660VAC	LOAD 10:10A … 80:80A	Control signal D:4-32VDC A:90-280VAC	A:AC output D:DC output

Product Selection Table

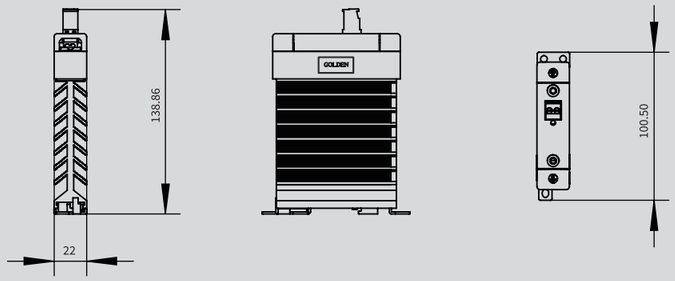
Product model	Load voltage	LOAD	Isolation Voltage	Insulation voltage	Control voltage	Action status indication
GSH4810DA	40-530VAC	10A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSH4815DA	40-530VAC	15A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSH4820DA	40-530VAC	20A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSH4825DA	40-530VAC	25A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSH4830DA	40-530VAC	30A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSH4840DA	40-530VAC	40A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSH4860DA	40-530VAC	60A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication
GSH4880DA	40-530VAC	80A	⩾2500VAC	⩾2500VAC	4-32VDC	Input LED indication

Product parameters

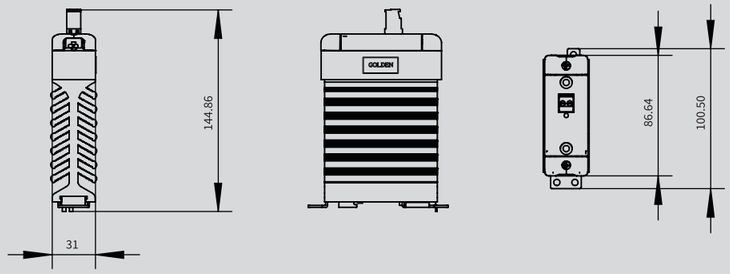
Product wiring diagram	
Control voltage: 4-32VDC	Turn-off voltage: 1VDC
Turn-on voltage: 4VDC	Control Current: 6-25mA (built-in constant current circuit)
Minimum conduction current: 10mA	Maximum on state pressure drop: 1.5VAC
Maximum off state current: 2mA	Critical rise rate of off state voltage: 500V/us
Maximum conduction time: DC control 10ms AC control 40ms	
Maximum shutdown time: DC control 10ms AC control 40ms	
Operating Frequency: 45-65HZ	Minimum isolation voltage: Between input and output ≥ 2500VAC
Minimum insulation voltage: Input and output on the motherboard ≥ 2500VAC	
Insulation resistance: 1000MΩ(500VDC)	Ambient Temperature: -40~80℃

Product dimension diagram

Dimensions (unit: mm)

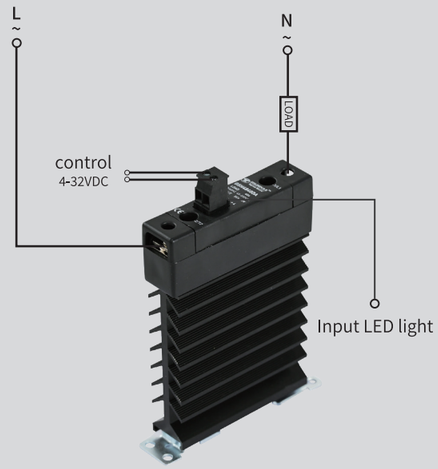


100.5mm*22mm*138.86mm



100.5mm*31mm*144.86mm

Product wiring diagram



Product temperature curve

1. Our company has made great efforts in product quality and reliability. Improper selection or use of semiconductor power devices used inside solid-state relays can still lead to irreparable damage. Due to voltage fluctuations in the power grid (usually+10%) and differences in inductance and capacitance, a certain safety factor needs to be considered when selecting. For example, the long-term working current of electric heating should not exceed 60% of the rated nominal value of SSR current, and the working current of the motor should not exceed 1/7 of the rated nominal value of SSR current.

2. The temperature of the radiator base plate should not exceed 80 degrees during long-term operation. If the ambient temperature is too high, air cooling should be adopted to accelerate air flow and achieve better heat dissipation effect.

3. To prevent the breakdown and damage of solid-state relays caused by load short circuits or overloading of current and voltage during use, it is strongly recommended to install and use matching fast fuses. For inductive loads, it is necessary to install varistors at the solid-state output terminal, and varistors can be added internally during customization.

4. Solid state relays must ensure sufficient and not exceed the nominal triggering voltage and current values during operation, for example, the control terminal should be "4-32VDC", which means the minimum input voltage should not be less than 4VDC and the maximum should not exceed 32VDC. Therefore, special attention should be paid to meeting the triggering requirements of solid-state relays in series or parallel use.

5. Solid state relays should be stored in a ventilated, dry, and non corrosive gas environment, avoiding moisture, rain, falling, and severe impact.

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