



SUPU 速普

轨装接线端子选型手册  
RAIL-MOUNTED TERMINAL BLOCK



SUPU 速普

PCB连接器及端子选型手册  
PCB CONNECTORS AND TERMINAL BLOCKS



SUPU 速普

接口模块选型手册  
INTERFACE MODULE



SUPU 速普

圆形连接器选型手册  
CIRCULAR CONNECTOR BLOCK



SUPU 速普

工业开关选型手册  
INDUSTRIAL SWITCH



SUPU 速普

重载连接器选型手册  
HEAVY DUTY CONNECTOR



SUPU 速普

储能行业  
速普产品应用解决方案  
SUPU PRODUCT SOLUTION FOR ENERGY STORAGE INDUSTRY



SUPU 速普

工业继电器选型手册  
INDUSTRIAL RELAY  
SUPU INDUSTRIAL SIGNAL & CONTROL SOLUTION



COMPANY PROFILE  
宁波速普电子有限公司  
NINGBO SUPU ELECTRONICS CO., LTD.

工业电气连接整体解决方案供应商  
Integrated Solution Supplier for Industrial Electrical Connection

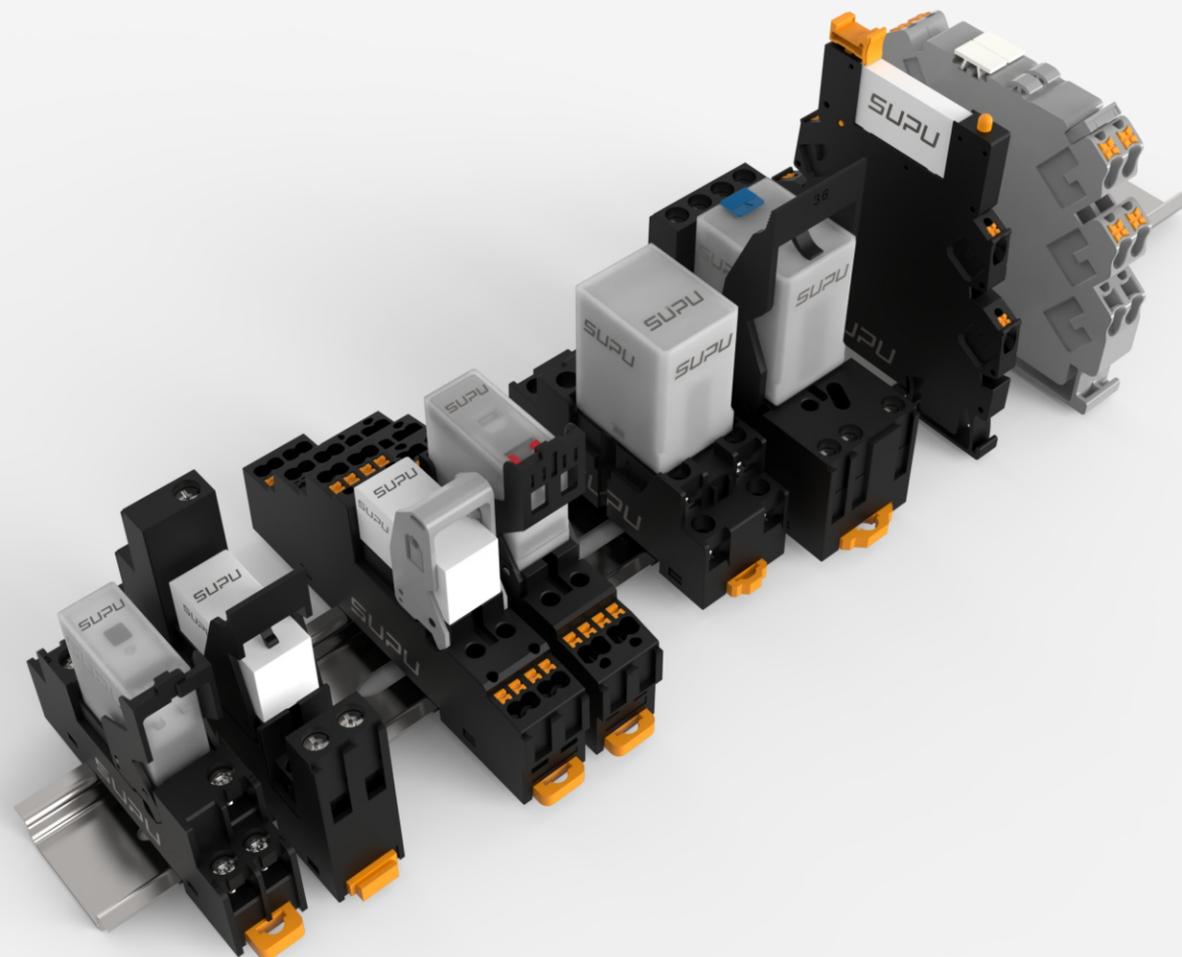
工业继电器选型手册

INDUSTRIAL RELAY

速普工业信号控制解决方案

SUPU INDUSTRIAL SIGNAL & CONTROL SOLUTION

V2.4 I



# 工业继电器选型手册

速普工业信号控制解决方案

INDUSTRIAL RELAY  
SUPU INDUSTRIAL SIGNAL & CONTROL SOLUTION

V2.4 I



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# SUPU INDUSTRIAL RELAY

## 速普中间继电器

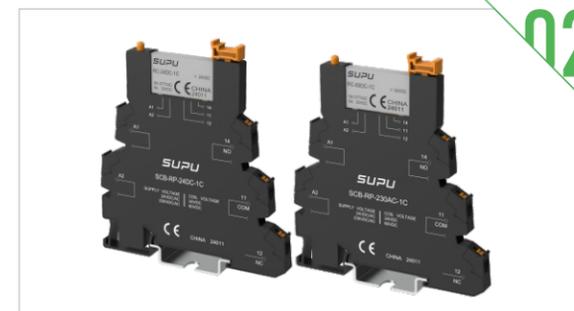


速普中间继电器包括超薄型、薄型、标准型、PCB焊板型、光耦继电器等产品系列，产品覆盖从6A到16A大小，提供1C、2C、4C选择，以及各种防护和接线选择。其中超薄型中间继电器厚度仅为6.2mm，直插式弹簧接线，大大节省安装空间与接线时间。速普中间继电器提供完善的附件，可与导轨端子、接口模块等产品组合，为控制柜提供全面的信号转换与连接方案。

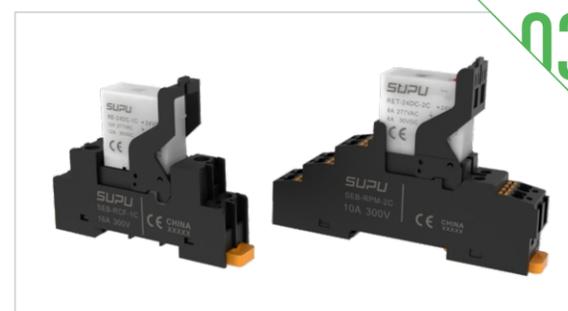
SUPU industrial relay includes slim, compact, standard, PCB welding type, optocoupler relay and other products. Family products cover current from 6A up to 12A, provide 1C, 2C, 4C contacts change over options, as well as other protections and wiring methods. Of which slim relay thickness is only 6.2mm, with push spring connection technology, greatly save installation space and wiring time. SUPU industrial relays provide complete accessories, which can be combined with din-rail terminals, interface modules and other products to provide a comprehensive signal conversion and connection solution for the electrical control cabinet.



PCB焊板型中间继电器系列  
PCB Welding Type Industrial Relay



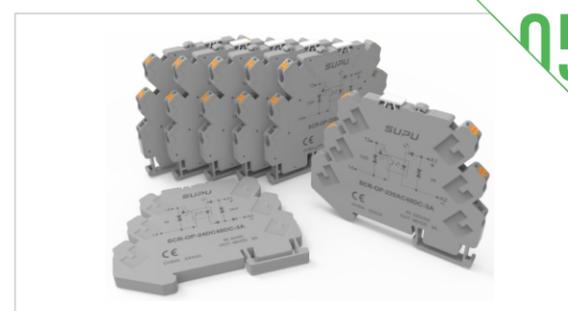
超薄型中间继电器系列  
Slim Industrial Relay



薄型中间继电器系列  
Compact Industrial Relay



标准型中间继电器系列  
Standard Industrial Relay



光耦/固态继电器SCR-OP系列  
Optocoupler Relay



速普中间继电器  
SUPU Industrial Relay

# 如何选型 (命名规则 Nomenclature)

## 01 ▶ 继电器插头 (Relay Head) 例: RET-24DC-1C

R	E	T
R: 电磁式 (Electromagnetic)	C: 超薄型 (Slim Type) G: 通用标准型 (General Standard type) B: 焊接电路板型 (PCB welding type) E: 薄型, 宽脚类型 (Compact Type)	T: 带测试按钮 (With Test Button) 无: 不带测试按钮 (Without Test Button)
-24DC 输入电压(Voltage input)		-1C -1C: 1对转换触点 (1 Changeover)
-24DC		-2C: 2对转换触点 (2 Changeover)
-60DC(仅超薄Only Slim type)		-3C: 3对转换触点 (3 Changeover)
-230AC		-4C: 4对转换触点 (4 Change over)

## 02 ▶ 继电器底座 (Relay Socket) 例: SGB-RPS-2C

S	C	B
SUPU	C: 超薄型 (Slim Type) G: 通用型中间继电器座 (General Standard) B: 紧凑型, 焊接电路板型 (PCB Welding Type) E: 薄型 (Compact type)	B: 底座 (Base)
-R		P
-R: 电磁式 (Electromagnetic)		P: 弹簧接线 (Spring Connection)
-O: 光耦式 (Optocoupler)		C: 螺钉接线 (Screw Connection)
F	-24DC	-1C
G: 螺钉普通型 (General)	-24DC (仅超薄Only Slim type)	-1C: 1对转换触点 (1 Changeover)
F: 防护型接型 (Fence)	-230AC (仅超薄Only Slim type)	-2C: 2对转换触点 (2 Changeover)
S: 分离式接线 (Segregate)		-3C: 3对转换触点 (3 Changeover)
C: 混合接线(Commixture)		-4C: 4对转换触点 (4 Changeover)
M: 带浪涌模块接口 (Modules)		

## 03 ▶ 固定卡子

S	G	P	
SUPU	G: 通用标准型(General)	继电器固定卡子 (Relay Head Holder)	-01 -01: 不锈钢片 (SUS plate) -02: 不锈钢丝 (SUS wire)

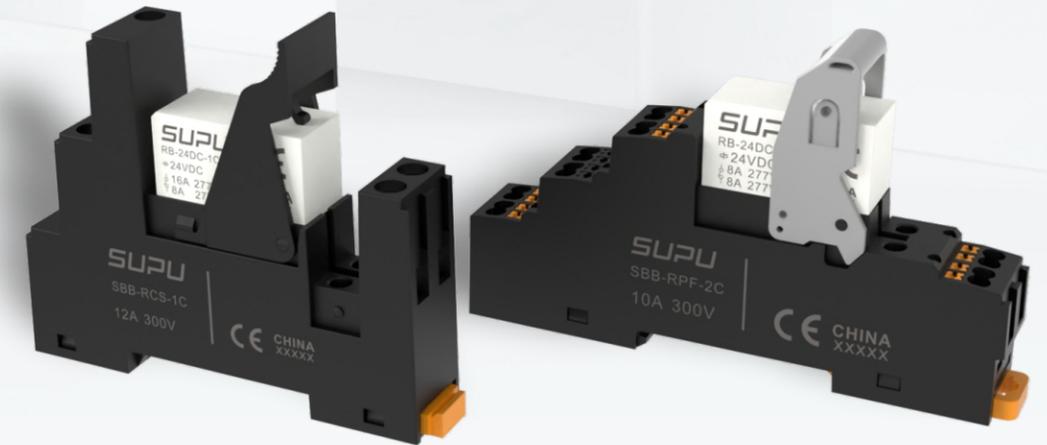
## 04 ▶ 模块 (Function Module)

S	M	-LD	
SUPU	M: 模块 (Module)	-L: LED灯; -VL: 压敏电阻+灯 (MOV+LED) -LD: LED+续流二极管 (LED+Diode)	-V: 压敏电阻 (MOV) -RC: 阻容吸收 (RC) -D: 续流二极管 (FWD)
R	1		-24DC
R: 红色LED(Red LED)	极性		输入电压 (Voltage Input)
空: 绿色LED(Green LED)	1: A1+, A2-; 2: A1-, A2+; 空: 无极性(Null: No Polarity)		DC: 直流 V: 交直流: AC/DC

## 05 ▶ 中间继电器+底座 (Relay Head + Socket) 例: SERT-RPS-24DC-1C

S	E	R	T	-R
SUPU	C: 超薄型 (Slim Type) G: 通用标准型 (General Standard relay) B: 焊接电路板型 (PCB Welding Type) E: 薄型 (Compact type)	R: Relay	T: 带测试按钮 (With Test Button) 无: 不带测试按钮 (Without Test Button)	-R: 电磁式 -O: 光耦式
PS		-24DC		-1C
P: 标准系列直插接线 (Spring Connection)	输入电压(Voltage Input)			-1C: 1对转换触点 (1 Changeover)
PM: 弹簧直插, 带模块 (Spring With Module)				-2C: 2对转换触点 (2 Changeover)
PS: 弹簧直插, 分离式接线 (Spring Connection, Segregate)				-3C: 3对转换触点 (3 Changeover)
C: 标准系列螺钉接线 (Screw Connection)				-4C: 4对转换触点 (4 Changeover)
CG: 螺钉, 普通接线 (Screw, General)				
CF: 螺钉, 防护型接线 (Screw, Fence)				
CS: 螺钉, 分离式接线 (Screw, Segregate)				
CC: 螺钉, 混合接线(Screw, Commixture)				
CM: 螺钉, 带浪涌模块接口 (Screw with Module)				

# PCB焊板型中间继电器系列



速普PCB焊板型中间继电器, 尺寸紧凑, 厚度及引脚满足焊接板载继电器选择要求, 提供1C(电流16A), 2C(电流8A)选择, 可为客户配套设计成安全模块、继电器功率模块及其他控制电路, 为各类控制输出回路的设计提供全面的信号隔离与转换方案。

SUPU PCB welding type industrial relay, compact size, thickness and pin to meet the welding on-board relay selection requirements, provide 1C (current 16A), 2C (current 8A) options. It can be designed for customers into safety modules, power relay modules and other control circuits, which suitable for all kinds of control output circuit design to provide a comprehensive signal isolation and conversion relay solution.

- PCB焊板型继电器插头RB系列  
PCB Welding Type Industrial Relay Head RB series
- PCB焊板型继电器底座SBB-RCS系列  
PCB Welding Type Industrial Relay Socket SBB-RCS Series
- PCB焊板型继电器底座SBB-RPF系列  
PCB Welding Type Industrial Relay Socket SBB-RPF Series

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### 01/ PCB焊板型中间继电器系列 PCB Welding Type Industrial Relay

PCB焊板型继电器插头RB系列 PCB Welding Type Industrial Relay Head RB series

PCB焊板型继电器底座SBB-RCS系列 PCB Welding Type Industrial Relay Socket SBB-RCS Series

PCB焊板型继电器底座SBB-RPF系列 PCB Welding Type Industrial Relay Socket SBB-RPF Series

### 02/ 超薄型中间继电器系列 Slim Industrial Relay

超薄型继电器插头RC系列 Slim Industrial Relay Head RC series

超薄型继电器底座SCB系列 Slim Industrial Relay Socket SCB Series

### 03/ 薄型中间继电器系列 Compact Industrial Relay

薄型继电器插头RE系列 Compact Industrial Relay Head RE Series

薄型继电器插头RET系列 Compact Industrial Relay Head RET Series

薄型继电器底座SEB-RCF系列 Compact Industrial Relay Socket SEB-RCF Series

薄型继电器底座SEB-RCG系列 Compact Industrial Relay Socket SEB-RCG Series

薄型继电器底座SEB-RCS系列 Compact Industrial Relay Socket SEB-RCS Series

薄型继电器底座SEB-RPM系列 Compact Industrial Relay Socket SEB-RPM Series

薄型继电器底座SEB-RPS系列 Compact Industrial Relay Socket SEB-RPS Series

### 04/ 标准型中间继电器系列 Standard Industrial Relay

标准型继电器插头RG系列 Standard Industrial Relay Head RG Series

标准型继电器插头RGT系列 Standard Industrial Relay Head RGT Series

标准型继电器底座SGB-RCC系列 Standard Industrial Relay Socket SGB-RCC Series

标准型继电器底座SGB-RCF系列 Standard Industrial Relay Socket SGB-RCF Series

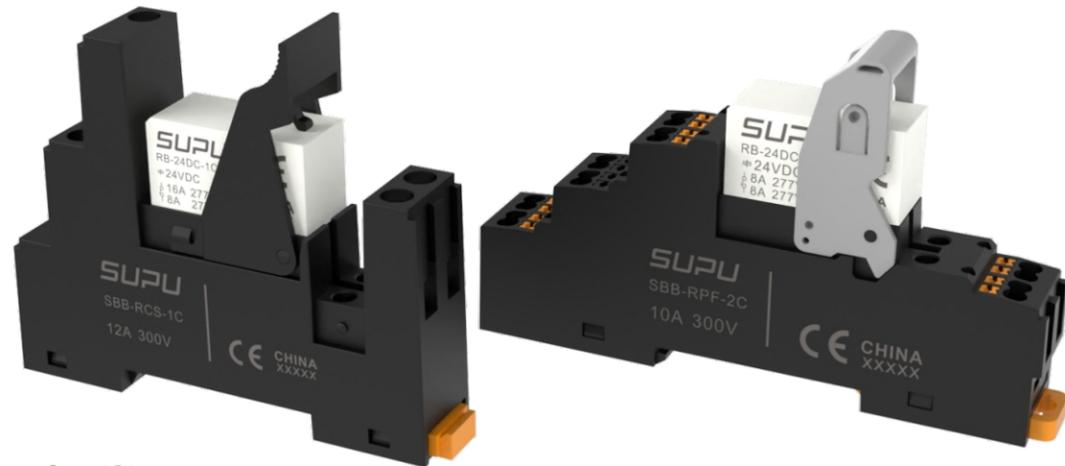
标准型继电器底座SGB-RCG系列 Standard Industrial Relay Socket SGB-RCG Series

### 05/ 光耦/固态继电器SCR-OP系列 Optocoupler Relay SCR-OP Series

# PCB焊板型中间继电器系列

## 产品特点 Product Features

- 透明外壳, 触点状态可视  
Transparent housing, Visible Contacts
- 低高度: 仅为15.7mm  
Low profile: only 15.7mm
- 1C/12A, 2C/8A的功率继电器  
1C/12A, 2C/8A Power Relay
- 线圈与触点间介质耐压5KV  
5KV Dielectric b/w Coil & Contacts



## 种类 Category

型号 Model	额定电压(V) Rated Voltage	最小包装单位Min. Package
RB-24DC-1C	DC12, DC24	50pcs/盒Box
RB-24DC-2C	DC12, DC24	50pcs/盒Box

## 额定规格/性能 Specification

### 线圈规格 (23°C) Coil Specs

项目 Items	额定电压(V) Rated Voltage (V)	线圈电阻(Ω) Coil Resistance (Ω)	动作电压(V) Action Voltage (V)	释放电压(V) Release Voltage (V)	最大容许电压(V) Max. Voltage (V)	功耗(W) Power (W)
DC	24	1440	≤额定电压75% Rated Voltage	≥额定电压10% Rated Voltage	额定电压的130% Rated Voltage	约0.4W

- 注: 1. 线圈电阻值指的是线圈温度为 +23°C时的值。线圈电阻: 额定电压 ≤ 24V 线圈电阻 ± 10%; ≥ 48V 线圈电阻 ± 15%。  
2. 最大容许电压是指继电器线圈在短时间内能够承受的最大电压值。  
3. 对于额定电压 ≥ 48V 的产品, 为保护线圈不受损伤, 在测试及应用中, 必须有抑制线圈产生过电压的措施 (如: 在线圈并联二极管等)。

- Note: 1. coil resistance value refers to the value when the coil temperature is @+ 23°C. Coil Resistance ±10% when volatage is less than 24V, and ±15% when voltage is less than 48V.  
2. The maximum allowable voltage refers to the maximum voltage value that the relay coil can withstand in a short time.  
3. For products with rated voltage ≥ 48V, in order to protect the coil from damage, in the test and application, there must be measures to inhibit the coil from generating overvoltage (such as: parallel diodes in the coil, etc.).

### 性能 Product Specification

接触电阻 (Contact resistance)	100mΩ以下 (DC6V 1A)	
动作时间 (Actions Time)	20ms以下	
释放时间 (Release Time)	10ms以下	
操作频率 (Frequency)	机械 (Mechanical)	18,000次/h
	电气 (Electrical)	12,000次/h
耐电压 (Dielectric)	绝缘电阻 (Insulation Resistance)	1000MΩ (500VDC)
	线圈与触点间 (b/w Coil & Contacts)	AC5000V 1min
	同极触点间 (b/w Contacts)	AC1000V 1min
振动 (Vibration)	误动作振荡 (Malfunction)	10~55Hz(双振幅double side1.5mm)
	耐久振荡 (Endurance)	10~55Hz(双振幅double side1.5mm)
冲击 (Impact)	误动作冲击 (Malfunction)	98m/s <sup>2</sup>
	耐久冲击 (Endurance)	980m/s <sup>2</sup>
耐久性 (Lifecycle)	周围环境温度 (Working Temp.)	-40°C~85°C
	周围环境湿度 (Humidity)	5%~85%RH
	机械 (Mechanical)	1,000万次以上(10M cycles)
	电气(阻性负载) (Resistance load)	100,000次以上(100K cycles)
	重量 (Weight)	约13.5g

### 触点额定值 Contact Features

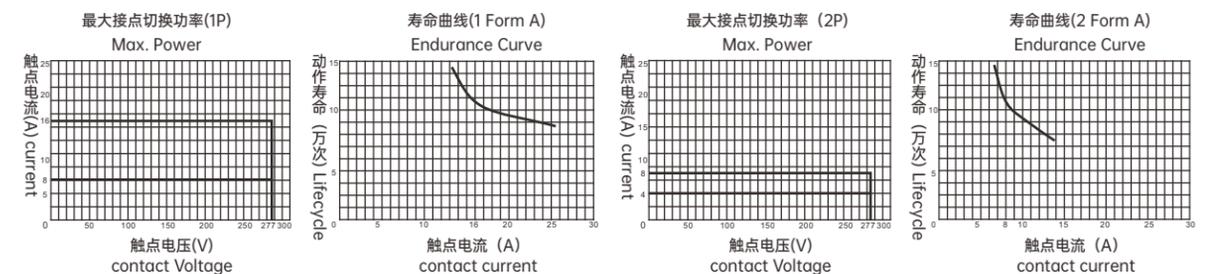
(Items)	负载 (Load)	1C/0	2C/0
		阻性负载 (Resistance Load)	阻性负载 (Resistance Load)
额定负载 Rated Load		AC277V 16A	AC277V 8A
额定通电电流 Rated Current		16A	8A
最大的切换功率 Max. Power		4400VA	2200VA
接点电流的最大值 Max. Current		16A	8A
触点形式 Contact Form		1C/0	2C/0
触点材料 Contact Material		银合金 (Ag Alloy)	

参数 Specs	标准型 Standard Type
使用环境温度*1 Working Temp.	-40~ + 85°C*1
使用环境湿度 Working Humidity	5%~85%RH

\*1、无结冰、结露。No ice or dew.

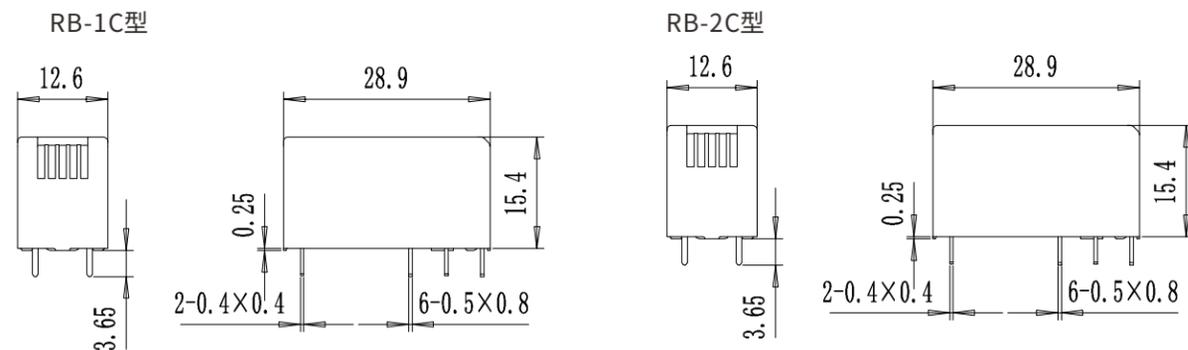
## 特性数据 Lifecycle Feature

### 寿命 Lifecycles



## 外形尺寸 Profiles

### 继电器外形尺寸 Relay Head Profile



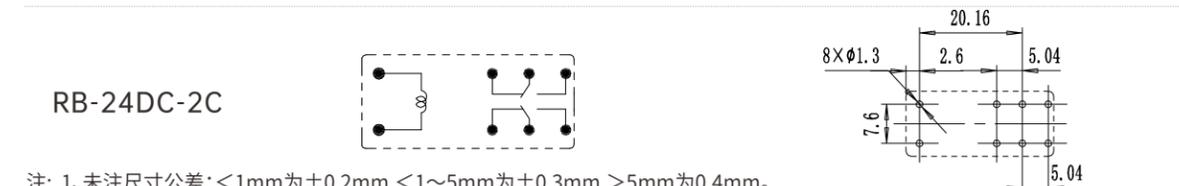
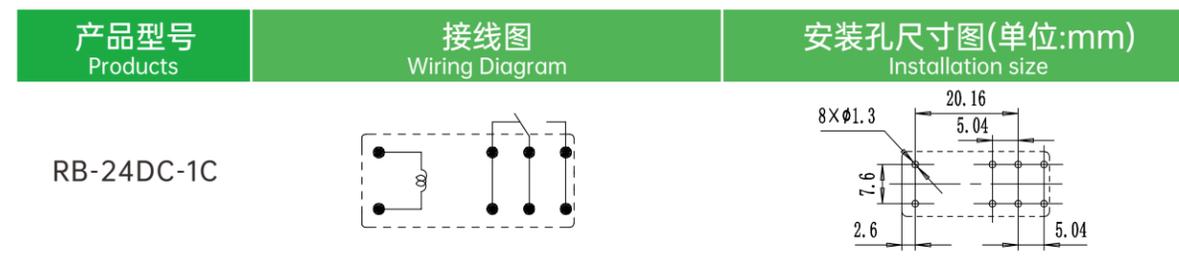
注: 1、未注尺寸公差: <1mm为±0.2mm, <1~5mm为±0.3mm, >5mm为0.4mm。

2、安装孔尺寸未注公差: ±0.1mm。

Note: 1、Undefined Tolerance: ±0.2mm where <1mm; ±0.3mm where <1~5mm; 0.4mm where >5mm.

2、Undefined Profile Tolerance: ±0.1mm。

### 内部接线图 Wiring Diagram



注: 1、未注尺寸公差: <1mm为±0.2mm, <1~5mm为±0.3mm, >5mm为0.4mm。

2、安装孔尺寸未注公差: ±0.1mm。

Note: 1、Undefined Tolerance: ±0.2mm where <1mm; ±0.3mm where <1~5mm; 0.4mm where >5mm.

2、Undefined Profile Tolerance: ±0.1mm。

## 插座 | Relay Socket

### 插座特点 Socket Feature

- 适配RB系列继电器的插座  
Suitable for RB Series Socket
- 带手指保护功能, 保护模块可供选择  
with finger protection and function module
- 环保产品(符合RoHS)  
RoHS Free Products
- 介质耐压2000VAC, 绝缘电阻10MΩ  
Dielectric test 2000V/AC, Insulation Resistance 10MΩ
- 螺钉式导轨安装, 及PCB焊接式可供选择  
both DIN rail mounting, & PCB welding type



## SBB-RCS系列 SBB-RCS-1C、2C

### 产品性能 Products Specification



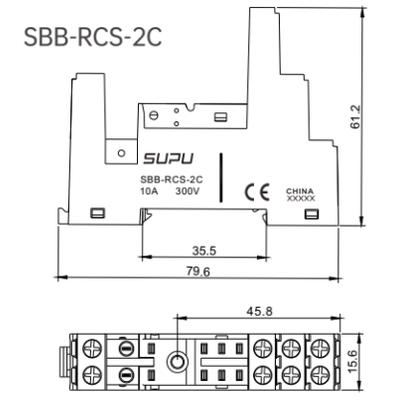
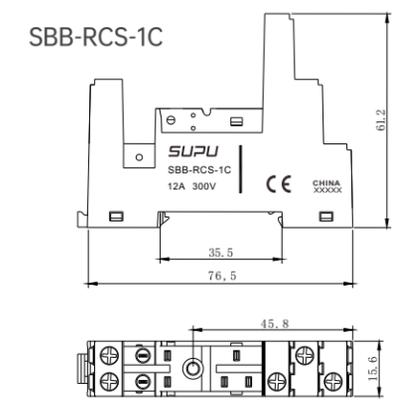
SBB-RCS-1C



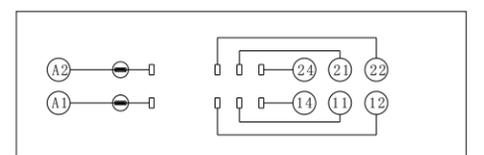
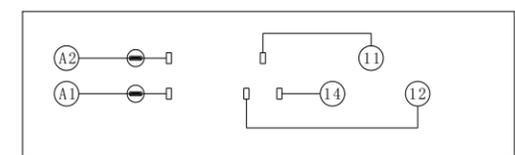
SBB-RCS-2C

订货型号 Order type		SBB-RCS-1C	SBB-RCS-2C
额定负载 Rated Load	电流 Current	12A	10A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength	线圈与触点: 4000V/S		
	触点与触点: 2500V/S		
使用环境 Ambient temperature	-40°C~+85°C		
相对湿度 Relative humidity	<95%		
螺钉扭矩 Screw torque	1.0Nm		
外接导线 External connection wire	20-16/0.5-1.5AWG/mm <sup>2</sup>		
重量 Weight	38g	44g	

### 外形尺寸 Outline dimensions



### 端子配置内部连接 Wiring Diagram



▶ 产品性能 Products Specification



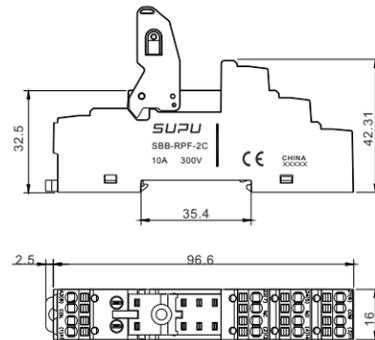
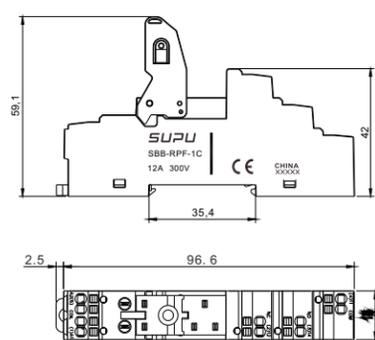
SBB-RPF-1C



SBB-RPF-2C

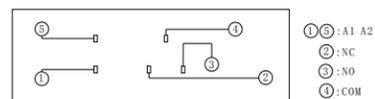
订货型号Order type		SBB-RPF-1C	SBB-RPF-2C
额定负载 Rated Load	电流 Current	12A	10A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength		线圈与触点:4000V/S	
		触点与触点:2500V/S	
使用环境 Ambient temperature		-40°C~+85°C	
相对湿度 Relative humidity		<95%	
螺钉扭矩 Screw torque		无	
外接导线 External connection wire		20-16/0.5-1.5AWG/mm <sup>2</sup>	
重量 Weight		46g	48g

▶ 外形尺寸 Outline dimensions

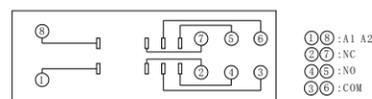


▶ 端子配置内部连接 Wiring Diagram

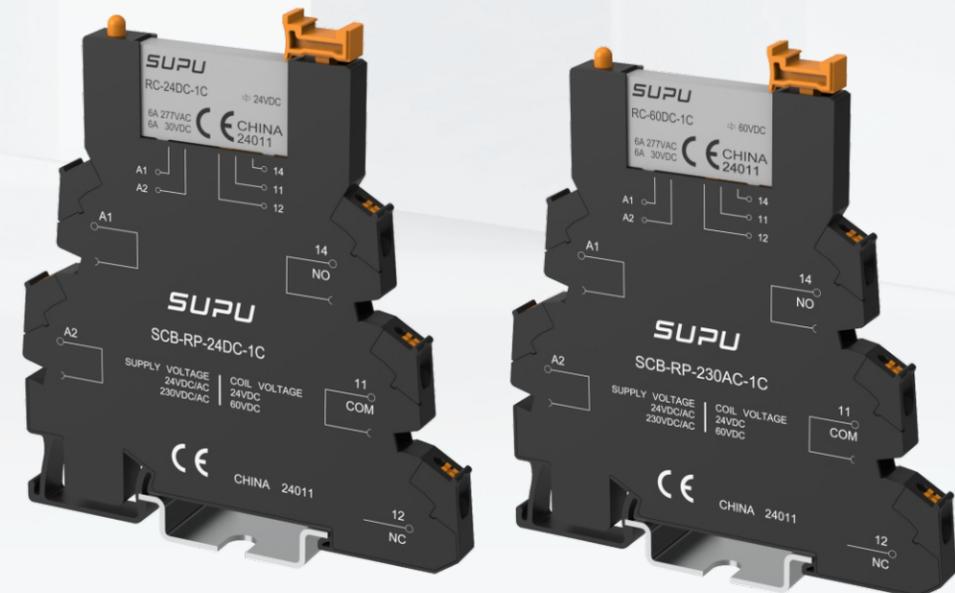
SBB-RPF-1C



SBB-RPF-2C



# 超薄型中间继电器系列



速普超薄型继电器产品系列,厚度仅为6.2mm,电流高达6A,直插式弹簧接线,大大节省安装空间与接线时间。速普中间继电器提供完善的附件,可与导轨端子、接口模块等产品组合,为控制柜提供全面的信号转换与连接方案。

SUPU slim industrial relay, thickness is only 6.2mm, with 6A current maximum and push spring connection technology, greatly save installation space and wiring time. SUPU industrial relays provide complete accessories, which can be combined with din-rail terminals, interface modules and other products to provide a comprehensive signal conversion and connection solution for the electrical control cabinet.

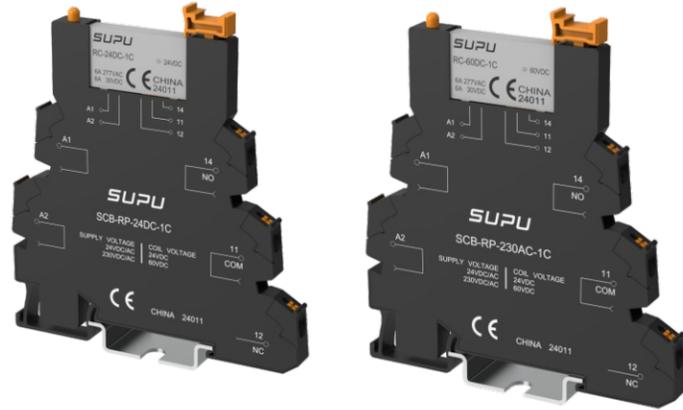
● 超薄型继电器插头RC系列  
Slim Industrial Relay Head RC series

● 超薄型继电器底座SCB系列  
Slim Industrial Relay Socket SCB Series

# 超薄型中间继电器系列

## 产品特点 Product Features

- 超薄型继电器，厚度仅有5mm  
Slim relay head, only 5mm
- 线圈与触点间继电器介质耐压4KV  
4KV Dielectric b/w Coil & Contacts
- 配有插座可供选择  
Optional with socket
- 1 C/O 6A的触点切换能力  
1C/O 6A power switch
- 高灵敏度，线圈功耗约为0.17W  
High sensitivity, ~0.17W power consumption



## 种类 Category

型号 Model	额定电压(V) Rated Voltage	最小包装单位Min. Package
RC-24DC-1C	DC24	50pcs/盒Box
RC-60DC-1C	DC60	50pcs/盒Box

## 额定规格/性能 Specification

### 线圈规格 (23°C) Coil Specs

Items 项目	线圈电阻(Ω) Coil Resistance (Ω)	动作电压(V) Action Voltage (V)	释放电压(V) Release Voltage (V)	最大容许电压(V) Max. Voltage (V)	功耗(W) Power (W)	
DC	24	3388	≤额定电压75% Rated Voltage	≥额定电压10% Rated Voltage	额定电压的110% Rated Voltage	170
	60	16600				210

- 注:1、线圈电阻值指的是线圈温度为 + 23°C时的值。线圈电阻: 额定电压≤12V线圈电阻±10%; 额定电压>12V线圈电阻±15%。  
2、最大容许电压是指继电器线圈在短时间能够承受的最大电压值。  
3、对于额定电压≥48V的产品, 为保护线圈不受损伤, 在测试及应用中, 必须有抑制线圈产生过电压的措施(如: 在线圈并联二极管等)。
- Note: 1、coil resistance value refers to the value when the coil temperature is @+ 23°C. Coil Resistance ±10% when volatage is less than 24V, and ±15% when voltage is less than 48V.  
2、The maximum allowable voltage refers to the maximum voltage value that the relay coil can withstand in a short time.  
3、For products with rated voltage ≥ 48V, in order to protect the coil from damage, in the test and application, there must be measures to inhibit the coil from generating overvoltage (such as: parallel diodes in the coil, etc.).

### 性能 Product Specification

接触电阻 (Contact resistance)	非镀金触点 (Non-gold plated) ≤100mΩ以下 镀金触点 (Gold plated) ≤30mΩ (DC6V 1A)	
动作时间 (Actions Time)	8ms以下	
释放时间 (Release Time)	4ms以下	
耐电压 (Dielectric)	绝缘电阻 (Insulation Resistance)	1000MΩ (500VDC)
	线圈与触点间 (b/w Coil & Contacts)	AC4000V 1min
	同极触点间 (b/w Contacts)	AC1000V 1min
振动 (Vibration)	误动作振荡 (Malfunction)	10~55Hz (双振幅1.5mm)
	耐久振荡 (Endurance)	10~55Hz (双振幅1.5mm)
冲击 (Impact)	误动作冲击 (Malfunction)	49m/s <sup>2</sup>
	耐久冲击 (Endurance)	980m/s <sup>2</sup>
环境	周围环境温度 (Working Temp.)	-40°C~85°C
	周围环境湿度 (Humidity)	5%~85%RH
耐久性 (Lifecycle)	机械 (Mechanical)	1,000万次以上 (10M cycles)
	电气(阻性负载) (Resistance load)	常开型60,000次以上 (NO type, 60K cycles) (高温85°C, 1 s通9s断) 转换型30,000次以上 (1CO type, 30K cycles) (高温85°C, 1 s通9s断)
	重量 (Weight)	约5g

### 触点额定值 Contact Features

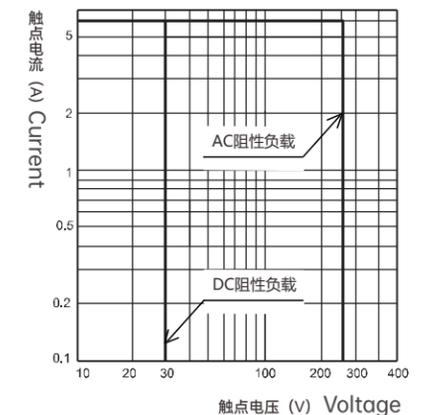
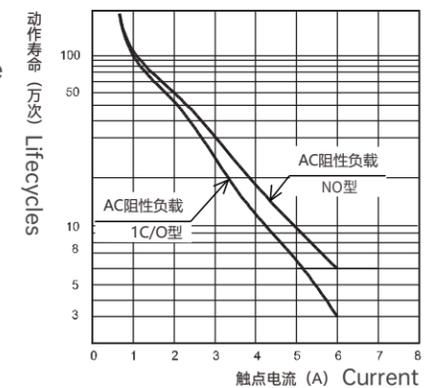
Items	负载 Load	1组
		电阻负载
额定负载 Rated Load		AC277V 6A DC30V 6A
额定通电流 Rated Current		6A
最大的切换功率 Max. Power		1500VA/180W
接点电流的最大值 Max. Current		6A
触点形式 Contact Form		1C/0, 1N0
触点材料 Contact Material		银合金 Ag Alloy

Items	负载 Load	标准型 Standard Type
使用环境温度*1 Working Temp		-40C~+85C*1
使用环境湿度 Working Humidity		5%~85%RH

\*1、无结冰、结露。No ice or dew.

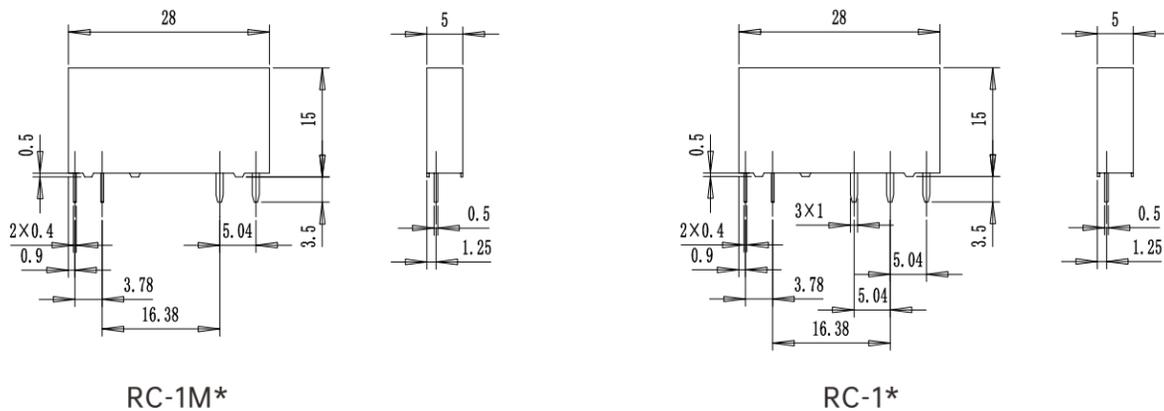
### 特性数据 Lifecycle Feature

#### 寿命 Endurance



## 外形尺寸 Profiles

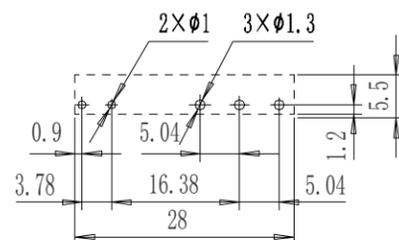
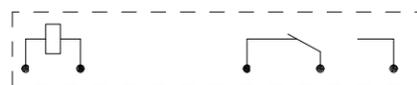
### 继电器外形尺寸 Relay Head Profile



### 内部接线图 Wiring Diagram

产品型号 Product Type	接线图 Wire Diagram	安装孔尺寸图(单位:mm) Installation Diagram
----------------------	---------------------	---------------------------------------

RC-24DC-1C  
RC-60DC-1C



注: 1、未注尺寸公差: <1mm为±0.2mm, <1~5mm为±0.3mm, >5mm为0.4mm。  
2、安装孔尺寸未注公差: ±0.1mm。

Note: 1、Undefined Tolerance: ±0.2mm where <1mm; ±0.3mm where <1~5mm; 0.4mm where >5mm.  
2、Undefined Profile Tolerance: ±0.1mm.

## 插座 Relay Socket

### 插座特点 Socket Feature

- 适配RC系列继电器的插座  
Suitable for RC Series
- 介质耐压可达4000VAC, 绝缘电阻1000MΩ  
Dielectric test 4000V/AC, Insulation Resistance 1000MΩ
- 内置保护电路, 带LED灯指示, 并可带线路保护等功能  
Protection Function Inside, LED indicator

- 插座可导轨安装  
Capable for DIN Rail Mounting
- 可选配标识牌、桥接件  
Optional with Marking & Bridge
- 环保产品(符合RoHS)  
RoHS Free Products;



## SCB系列

## SCB-RP-24DC-1C

### 产品性能 Products Specification



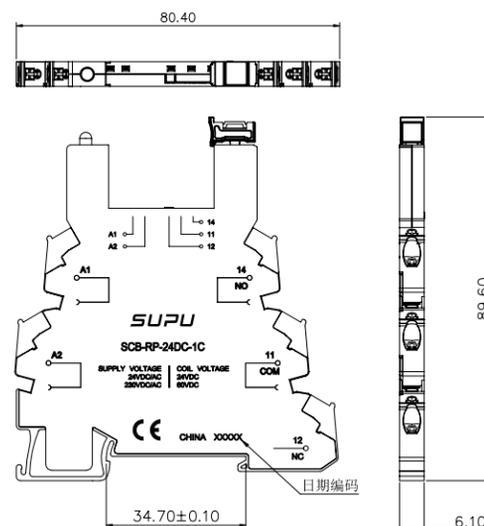
额定负载 Rated Load	电压Voltage	电流Current
	277VAC/30VDC	6A
介质耐压 Dielectric Strength	线圈/触点	触点/触点
	4000V/min	1000V/min
绝缘电阻 Insulation Resistance	1000MΩ	
环境温度 Ambient temperature	-40°C~+85°C	
相对湿度 Relative humidity	<85%	
外接导线 External connection wire	20-16 AWG	0.5~1.5 mm <sup>2</sup>
重量 Weight	21g	

### 安全规格/SAFETY REQUIREMENTS



档案号/File No	产品编号Part Number
TD18972401	SCB-RP-24DC-1C

### 外观尺寸图/Outline dimension

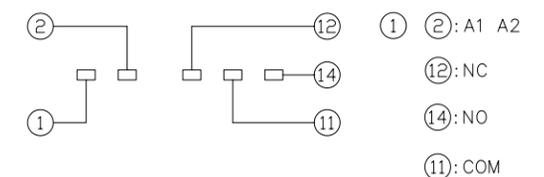


注: 1、外形尺寸公差表  
Note: 1、Profile Dimension Tolerance

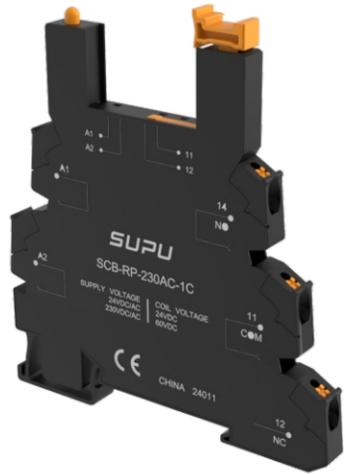
外形尺寸 Profile	≤0.1mm	1mm~5mm	>5mm
公差范围 Tolerance	±0.2mm	±0.3mm	±0.4mm

2、安装孔尺寸中未注尺寸公差为±0.1mm  
2、Undefined Tolerance is ±0.1mm

3、接线图  
3、Wiring Diagram



▶ 产品性能 Products Specification



额定负载 Rated Load	电压Voltage	电流Current
	277VAC/30VDC	6A
介质耐压 Dielectric Strength	线圈/触点	触点/触点
	4000V/min	1000V/min
绝缘电阻 Insulation Resistance	1000MΩ	
环境温度 Ambient temperature	-40°C~+85°C	
相对湿度 Relative humidity	<85%	
外接导线 External connection wire	20-16 AWG	0.5~1.5 mm <sup>2</sup>
重量 Weight	21g	

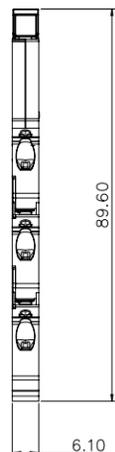
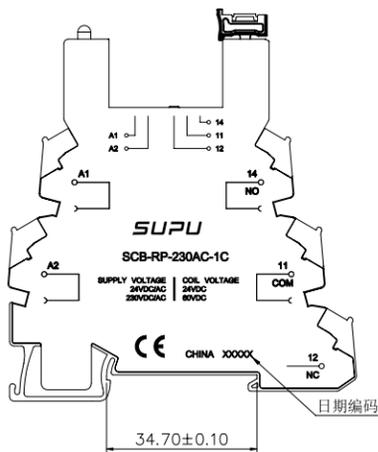
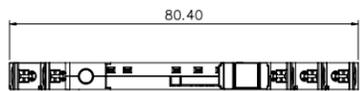
▶ 安全规格/SAFETY REQUIREMENTS

CE认证



档案号/File No	产品编号Part Number
TD18972401	SCB-RP-230AC-1C

▶ 外观尺寸图/Outline dimension



注:1.外形尺寸公差表

Note:1. Profile Dimension Tolerance

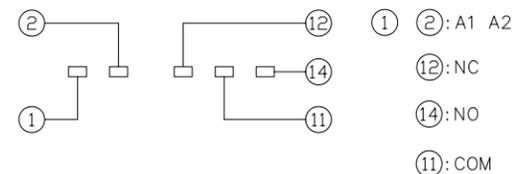
外形尺寸 Profile	≤0.1mm	1mm~5mm	>5mm
公差范围 Tolerance	±0.2mm	±0.3mm	±0.4mm

2. 安装孔尺寸中未注尺寸公差为±0.1mm

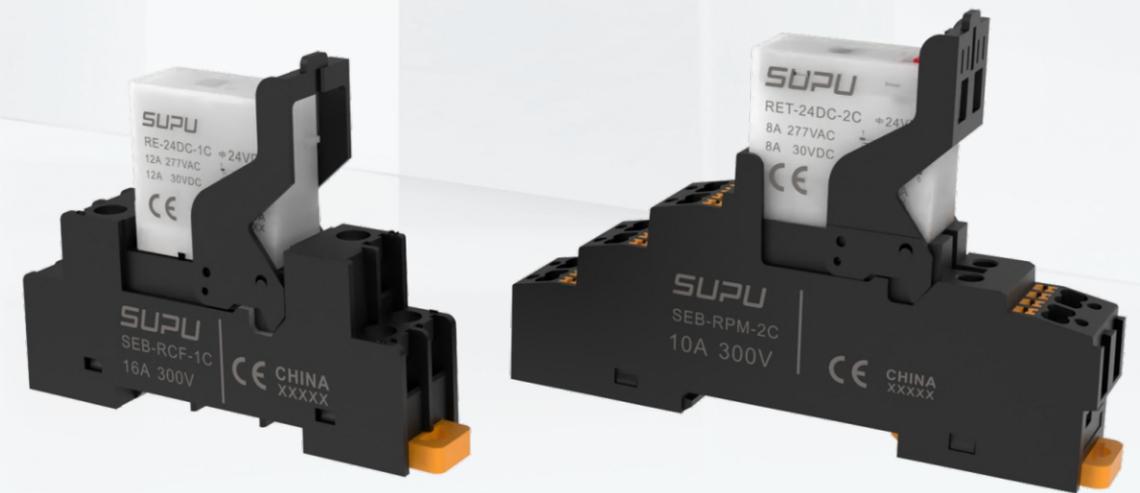
2. Undefined Tolerance is ±0.1mm

3. 接线图

3. Wiring Diagram



# 薄型中间继电器系列



速普薄型继电器产品系列, 尺寸紧凑, 提供螺钉和直插接线, 以及多种触指保护和接线方位选择, 1C支持电流12A, 2C支持电流8A, 可选适配230V和24VDC电压。速普中间继电器提供完善的附件, 可与导轨端子、接口模块等产品组合, 为控制柜提供全面的信号转换与连接方案。

SUPU compact industrial relay, compact design, with screw and push spring connection technology, optional finger protection and wiring directions. 1C support 12A current, 2C support 8A current, and suitable for 230VAC or 24VDC. SUPU industrial relays provide complete accessories, which can be combined with din-rail terminals, interface modules and other products to provide a comprehensive signal conversion and connection solution for the electrical control cabinet.

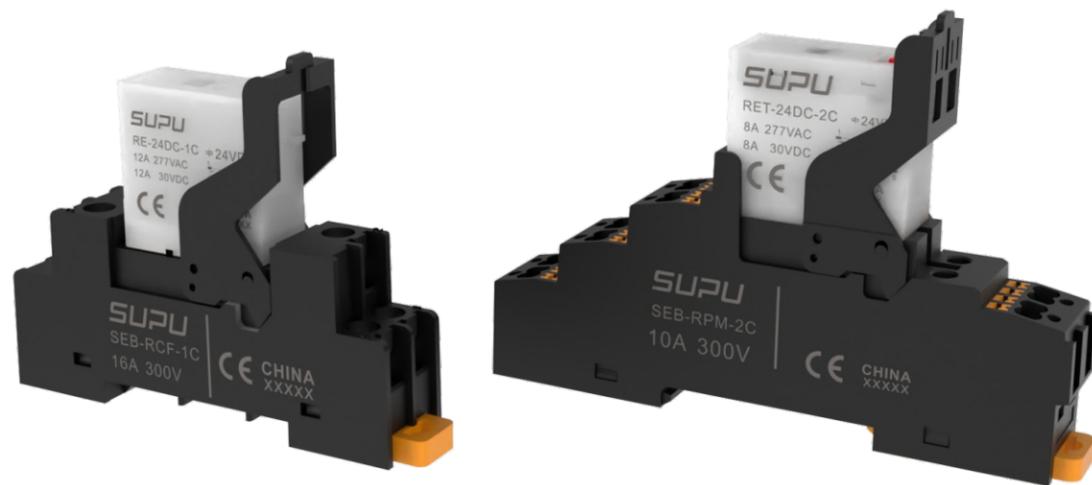
- 薄型继电器底座SEB-RCF系列  
Compact Industrial Relay Socket SEB-RCF Series
- 薄型继电器底座SEB-RCG系列  
Compact Industrial Relay Socket SEB-RCG Series
- 薄型继电器底座SEB-RCS系列  
Compact Industrial Relay Socket SEB-RCS Series
- 薄型继电器底座SEB-RPM系列  
Compact Industrial Relay Socket SEB-RPM Series
- 薄型继电器底座SEB-RPS系列  
Compact Industrial Relay Socket SEB-RPS Series

- 薄型继电器插头RE系列  
Compact Industrial Relay Head RE Series
- 薄型继电器插头RET系列  
Compact Industrial Relay Head RET Series

# 薄型中间继电器系列

## 产品特点 Product Features

- 透明外壳, 触点状态可视  
Transparent Housing, Visible Contacts
- 1C/O 12A和2 C/O 8A的触点容量  
1C/O 12A and 2C/O 8A contact capability
- 标配动作指示窗口  
Standard Motion Indicator Window
- 直流线圈可选带续流二极管  
DC Coil Type Product with Diode option
- 交流线圈可选带RC滤波回路  
AC Coil Product with RC Circuit
- 交流产品红色LED, 直流产品绿色LED  
Red LED for AC Product, Green LED for DC Product
- 红色和蓝色测试杆区分交直流线圈类别  
Red indicator for AC type, Blue for DC type



## 种类 Category

1C/O型		2C/O型	
型号 Model	常规额定电压(V) Rated Voltage	型号 Model	常规额定电压(V) Rated Voltage
RE-1C型	AC24, AC110/120, AC230 DC12, DC24, DC48, DC110	RE-2C型	AC24, AC110/120, AC230 DC12, DC24, DC48, DC110

## 额定规格/性能 Specification

### 线圈规格 (23°C) Coil Specs

	额定电压(V) Rated Voltage	项目 Items	线圈电阻(Ω) Coil Resistance	动作电压(V) Operating Voltage	释放电压(V) Release Voltage	最大容许电压(V) Max. Voltage	功耗(W) Power Consumption
AC	230		22260	≤额定电压80% ≤Rated voltage80%	≥额定电压30% ≥Rated voltage30%	额定电压的130% Rated voltage130%	约1.1~1.4VA(50Hz)
DC	24		1090	≤额定电压75% ≤Rated voltage75%	≥额定电压10% ≥Rated voltage10%	额定电压的130% Rated voltage130%	约0.53W

注:线圈电阻值指的是线圈温度为 + 23°C时的值。公差为AC线圈电阻±15%, DC线圈电阻:额定电压 < DC110V为±10%, 额定电压 ≥ DC110V为±15%。

Note: 1、coil resistance value refers to the value when the coil temperature is @+ 23°C. AC Coil Resistance ±15%; DC Coil: ±10% when volatege is less than 110V, and ±15% when voltage is big than 110V.

### 性能 Product Specification

接触电阻 (Contact resistance)	100mΩ以下(DC6V 1A)		
动作时间 (Actions Time)	15ms以下		
释放时间 (Release Time)	DC型:10ms以下;20ms以下AC型或内置RC回路、DC带二极管型		
操作频率 (Frequency)	机械 (Mechanical)	18,000次/h	
	电气 (Electrical)	12,00次/h	
耐电压 (Dielectric)	绝缘电阻 (Insulation Resistance)	1000MΩ(500VDC)	
	线圈与触点间 (b/w Coil & Contacts)	AC5000V 1min	
	同极触点间 (b/w Contacts)	AC1000v 1min	
振动 (Vibration)	异极触点间	AC3000V 1min	
	误动作振荡 (Malfunction)	10~55Hz(双振幅 double side 1.5mm)	
冲击 (Impact)	耐久振荡 (Endurance)	10~55Hz(双振幅 double side 1.5mm)	
	误动作冲击 (Malfunction)	98m/s	
环境	耐久冲击 (Endurance)	980m/s'	
	周围环境温度 (Working Temp.)	-40°C~70°C	
耐久性 (Lifecycle)	周围环境湿度 (Humidity)	5%~85%RH	
	机械 (Mechanical)	AC线圈	AC:1,000万次以上 AC: 10M cycles
		DC线圈	DC:2,000万次以上 DC:20M cycles
电气(阻性负载) (Resistance load)	100,000次以上		
重量 (Weight)	常规型约 (Without test button) 17g、按钮型约 (With test button) 19g		

## ◎ 触点额定值 Contact Features

项目 Items	负载 Load	1C/O型	2C/O型
		阻性负载 Resistance Load	阻性负载 Resistance Load
额定负载 Rated Load		AC277V 12A DC30V 12A	AC277V 8A DC30V 8A
额定通电电流 Rated Current		12A	8A
最大的切换功率 Max. Power		3300VA/360W	2200VA/240W
触点电流的最大值 Max. Current		12A	8A
触点形式 Cotact Form		1C/O	2C/O
触点材料 Contact Material		银合金 Ag Alloy	

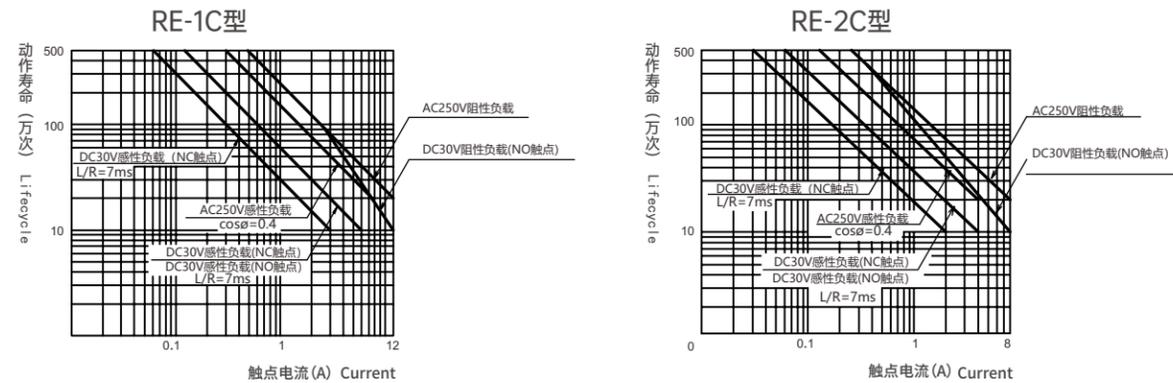
  

参数 Specs	标准型 Standard Type	二极管、RC内置型 RC Inside Type
使用环境温度 Working Temp.	-40C~+70C*1	-25C~+55CC*2
环境湿度使用 Working Humidity	5%~85%RH	

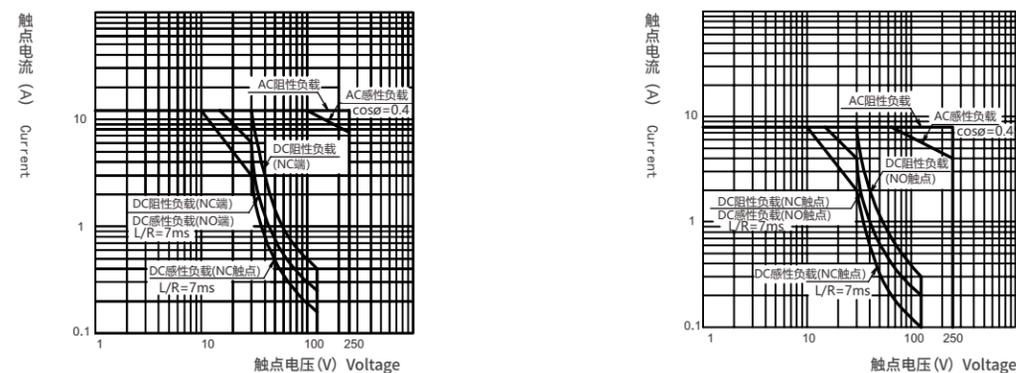
\*1、无结冰、结露。 \*2、受二极管的温度及使用元件的限制,使用环境温度上限值为55°C  
 \*1、No ice or dew. \*2、The Max. working Temperature is 55 °C due to certain electronics like diode.

## ➤ 特性数据 Lifecycle Feature

### ◎ 寿命 Endurance

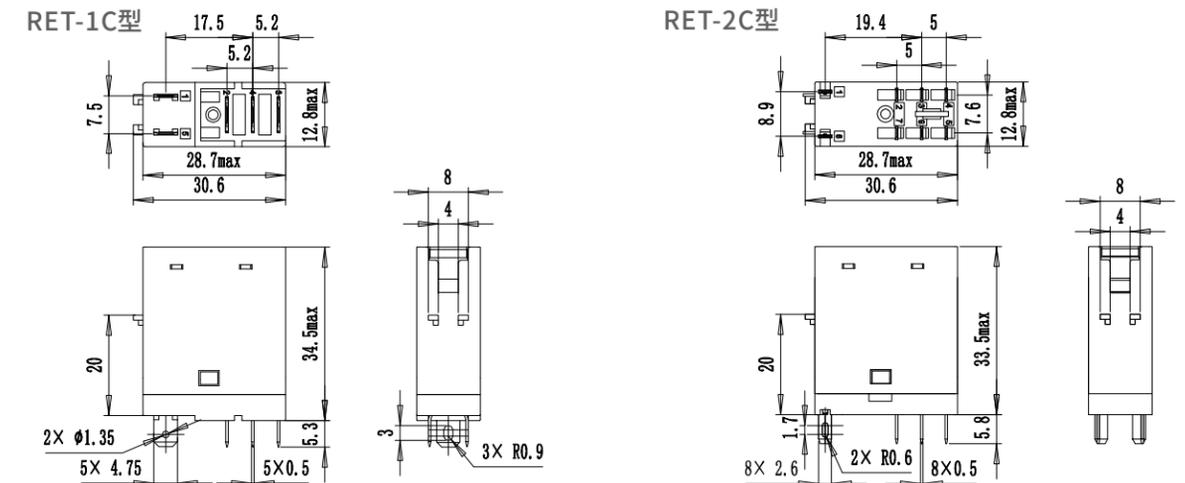
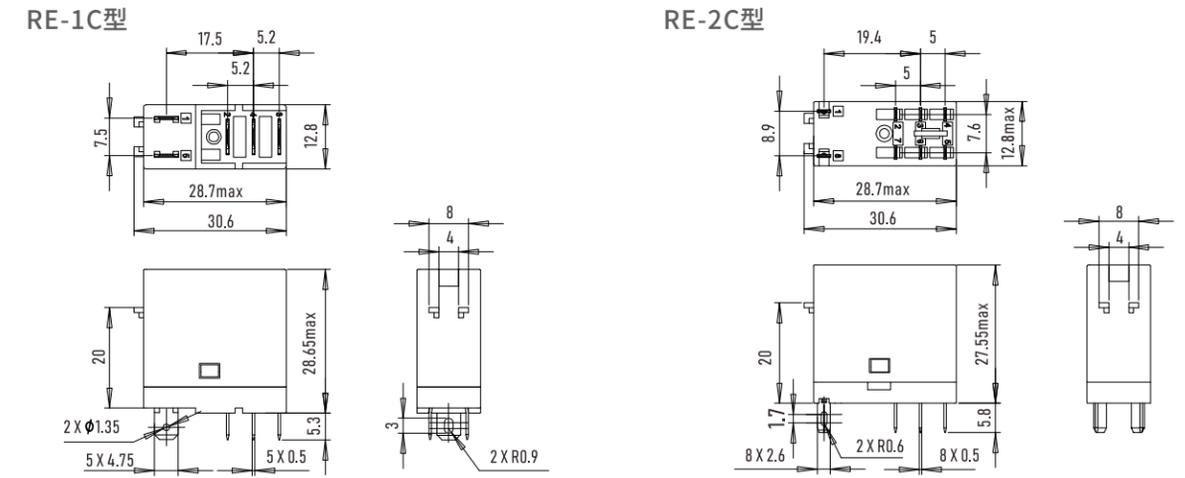


### ◎ 开关容量 Contacts Capacity

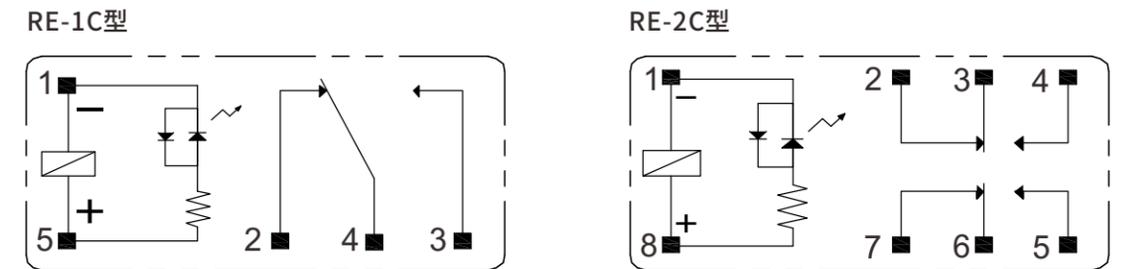


## ➤ 外形尺寸 Profiles

### ◎ 继电器外形尺寸 Relay Head Profile



### ◎ 内部接线图 Wiring Diagram



注:1、DC规格产品请注意线圈极性、在确认线圈极性后正确接线。  
 2、未注尺寸公差:<1mm为±0.2mm, <1.5mm为±0.3mm, >5mm为0.4mm。  
 Note:1、Please note the plarity before correctly wiring for DC products.  
 2、Undefined Tolerance:<1mm为±0.2mm, <1.5mm为±0.3mm, >5mm为0.4mm。

# 插座 |



## 插座特点

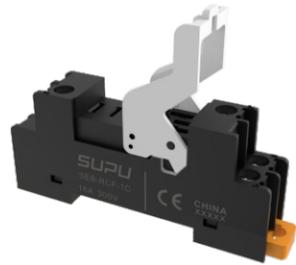
- 适配RE系列继电器 Suitable for RE Series Socket
- 介质耐压可达4000VAC(触点与线圈间) 绝缘电阻10MΩ Dielectric test 4000V/AC, Insulation Resistance 10MΩ
- 螺钉型、导轨式与焊接式安装形式可供选择 both DIN rail mounting, & welding type
- 标配塑料卡簧(S型可搭配标识牌)
- 环保产品(符合RoHS) RoHS Free Products

## SEB系列

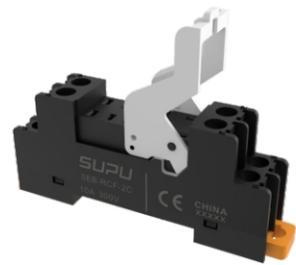
## SEB-RCF-1C、2C

### 产品性能

Products Specification



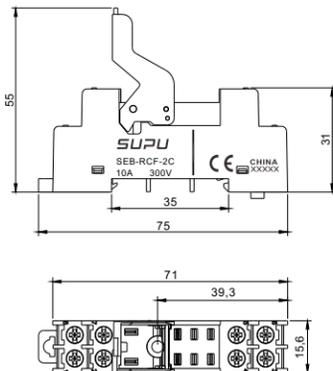
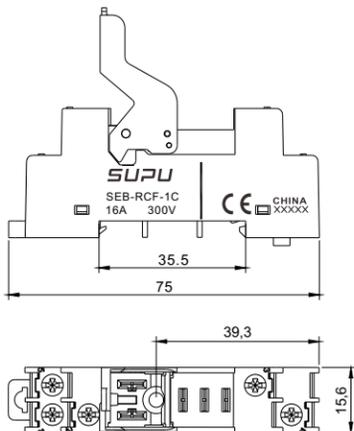
SEB-RCF-1C



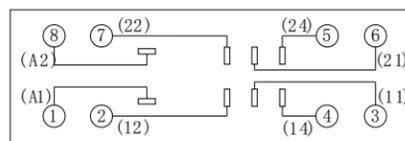
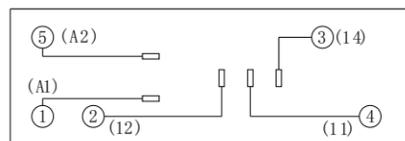
SEB-RCF-2C

订货型号 Order type		SEB-RCF-1C	SEB-RCF-2C
额定负载 Rated Load	电流 Current	16A	10A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength		线圈与触点: 4000V/S	
		触点与触点: 2500V/S	
使用环境 Ambient temperature		-40°C~+85°C	
相对湿度 Relative humidity		<95%	
螺钉扭矩 Screw torque		1.0Nm	
外接导线 External connection wire		20-16/0.5-1.5AWG/mm <sup>2</sup>	
重量 Weight		34.6g	

### 外形尺寸 Outline dimensions



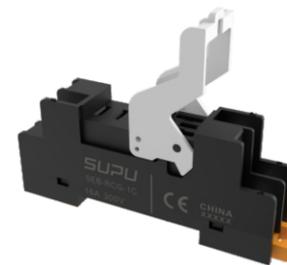
### 端子配置内部连接 Wiring Diagram



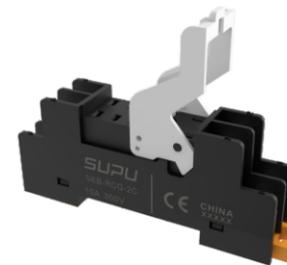
## SEB系列

## SEB-RCG-1C、2C

### 产品性能 Products Specification



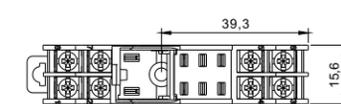
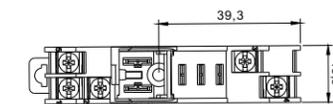
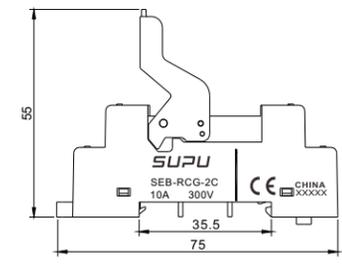
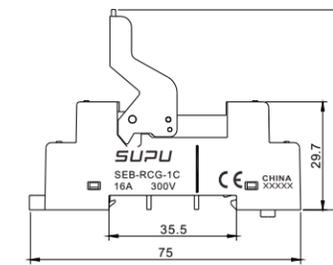
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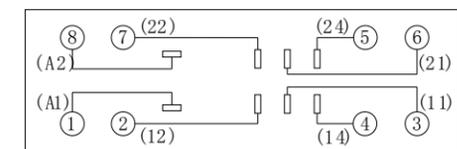
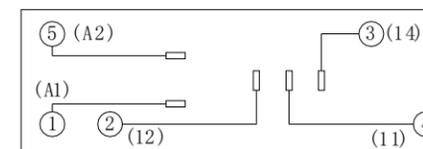
SEB-RCG-2C

订货型号 Order type		SEB-RCG-1C	SEB-RCG-2C
额定负载 Rated Load	电流 Current	16A	10A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength		线圈与触点: 4000V/S	
		触点与触点: 2500V/S	
使用环境 Ambient temperature		-40°C~+85°C	
相对湿度 Relative humidity		<95%	
螺钉扭矩 Screw torque		1.0Nm	
外接导线 External connection wire		20-16/0.5-1.5AWG/mm <sup>2</sup>	
重量 Weight		28g	31g

### 外形尺寸 Outline dimensions



### 端子配置内部连接 Wiring Diagram



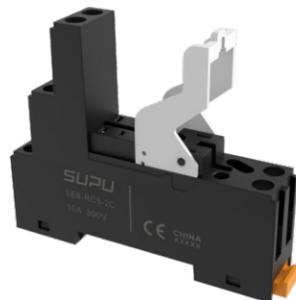
## SEB系列

## SEB-RCS-1C、2C

### ▶ 产品性能 Products Specification



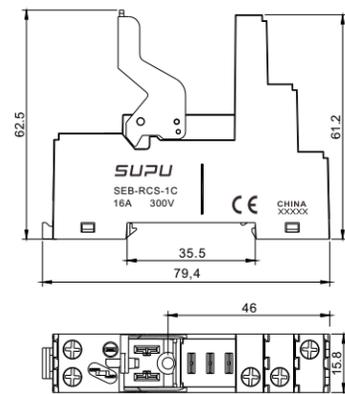
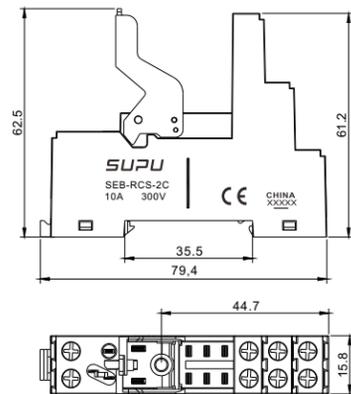
SEB-RCS-1C



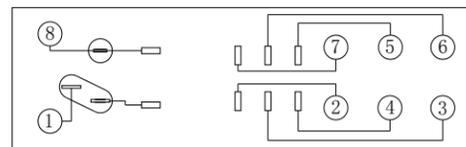
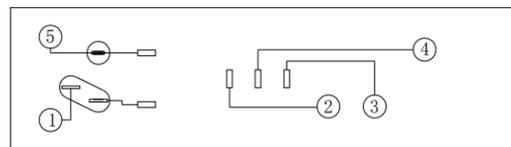
SEB-RCS-2C

订货型号Order type		SEB-RCS-1C	SEB-RCS-2C
额定负载 Rated Load	电流 Current	16A	10A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength		线圈与触点:4000V/S	
		触点与触点:2500V/S	
使用环境 Ambient temperature		-40°C~+85°C	
相对湿度 Relative humidity		<95%	
螺钉扭矩 Screw torque		1.0Nm	
外接导线 External connection wire		20-16/0.5-1.5AWG/mm <sup>2</sup>	
重量 Weight		34g	38g

### ▶ 外形尺寸 Outline dimensions



### ▶ 端子配置内部连接 Wiring Diagram



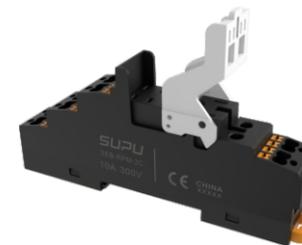
## SEB系列

## SEB-RPM-1C、2C

### ▶ 产品性能 Products Specification



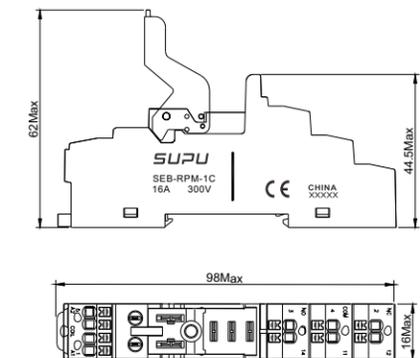
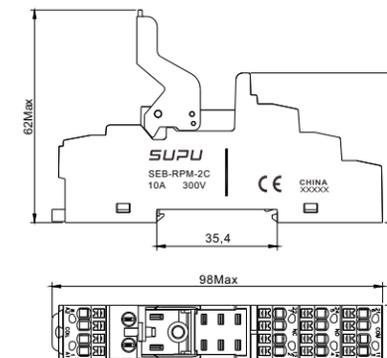
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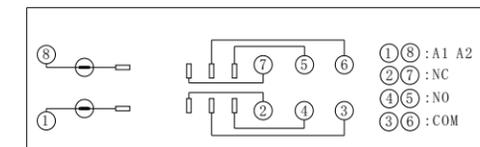
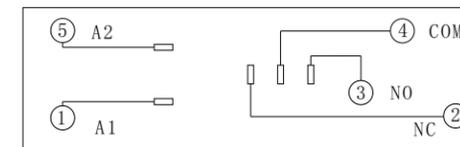
SEB-RPM-2C

订货型号Order type		SEB-RPM-1C	SEB-RPM-2C
额定负载 Rated Load	电流 Current	16A	10A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength		线圈与触点:4000V/S	
		触点与触点:2500V/S	
使用环境 Ambient temperature		-40°C~+85°C	
相对湿度 Relative humidity		<95%	
螺钉扭矩 Screw torque		无	
外接导线 External connection wire		20-16/0.5-1.5AWG/mm <sup>2</sup>	
重量 Weight		46g	48g

### ▶ 外形尺寸 Outline dimensions



### ▶ 端子配置内部连接 Wiring Diagram



▶ 产品性能 Products Specification



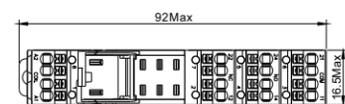
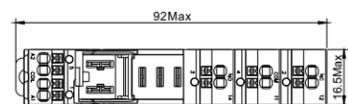
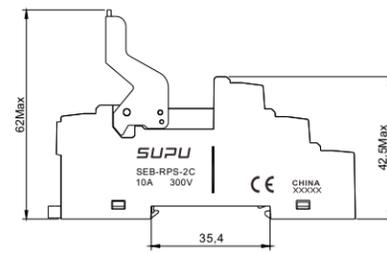
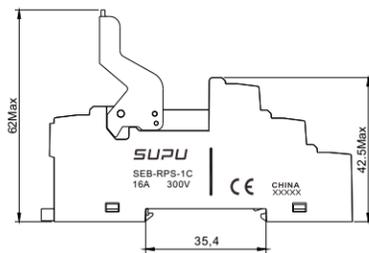
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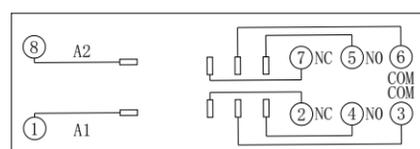
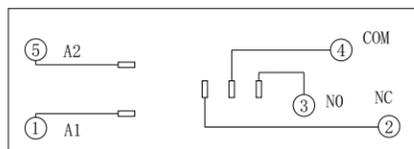
SEB-RPS-1C

订货型号Order type		SEB-RPS-1C	SEB-RPS-1C
额定负载 Rated Load	电流 Current	16A	10A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength		线圈与触点:4000V/S	
		触点与触点:2500V/S	
使用环境 Ambient temperature		-40°C~+85°C	
相对湿度 Relative humidity		<95%	
螺钉扭矩 Screw torque		1.0Nm	
外接导线 External connection wire		20-16/0.5-1.5AWG/mm <sup>2</sup>	
重量 Weight		46g	48g

▶ 外形尺寸 Outline dimensions



▶ 端子配置内部连接 Wiring Diagram



# 标准型中间继电器系列



速普标准型继电器产品系列, 提供螺钉和直插接线, 以及多种触指保护和接线方位选择, 2C支持电流7A, 4C支持电流5A, 可选适配230V和24VDC电压。速普中间继电器提供完善的附件, 可与导轨端子、接口模块等产品组合, 为控制柜提供全面的信号转换与连接方案。

SUPU standard industrial relay, compact design, with screw and push spring connection technology, optional finger protection and wiring directions. 2C support 7A current, 4C support 5A current, and suitable for 230VAC or 24VDC. SUPU industrial relays provide complete accessories, which can be combined with din-rail terminals, interface modules and other products to provide a comprehensive signal conversion and connection solution for the electrical control cabinet.

- 标准型继电器底座SGB-RCC系列  
Standard Industrial Relay Socket SGB-RCC Series
- 标准型继电器底座SGB-RCF系列  
Standard Industrial Relay Socket SGB-RCF Series
- 标准型继电器底座SGB-RCG系列  
Standard Industrial Relay Socket SGB-RCG Series
- 标准型继电器底座SGB-RCS系列  
Standard Industrial Relay Socket SGB-RCS Series
- 标准型继电器底座SGB-RPS系列  
Standard Industrial Relay Socket SGB-RPS Series

# 标准型中间继电器系列

## 产品特点 Product Features

- 透明外壳, 触点状态可视  
Transparent Housin, Visible Contacts
- 2C/O、3C/O 7A 和 4 C/O 5A的触点容量  
2C/O, 3C/O,7A and 4C/O 5A contact capability
- 标配动作指示窗口  
Standard motion indicator window
- 直流线圈可选带续流二极管  
DC coil type relay with diode option
- 交流线圈可选带RC滤波回路  
AC coil type relay with RC circuit
- 交流产品红色LED, 直流产品绿色LED  
AC product with red LED, DC type with Green LED
- 红色和蓝色测试杆区分交直流线圈类别  
Red indicator for AC type, blue for DC type



## 种类 Category

2C/O型		3C/O型		4C/O型	
型号 Model	常规额定电压(V) Rated Voltage	型号 Model	常规额定电压(V) Rated Voltage	型号 Model	常规额定电压(V) Rated Voltage
RG-2C型	AC12、AC24、AC110、 Ac230 DC12、DC24、DC110	RG-3C型	AC12、AC24、AC110、 Ac230 DC12、DC24、DC110	RG-4C型	AC12、AC24、AC110、 Ac230 DC12、DC24、DC110

注: 最低订货量为20只, 因此请以最低订货数量的倍数订货。  
Note: MOQ is minimum 20 pcs. Order can be X times MOQ.

## 额定规格/性能 Specification

### 线圈规格 (23°C) Coil Specs

	额定电压(V) Rated Voltage	项目 Items	线圈电阻(Ω) Coil Resistance	动作电压(V) Operating Voltage	释放电压(V) Release Voltage	最大容许电压(V) Max. Voltage	功耗(W) Power Consumption
AC	230		17000	≤额定电压80% ≤Rated voltage 80%	≥额定电压30% ≥Rated voltage 30%	额定电压的110% Rated voltage 110%	约1.1~1.8VA
DC	24		650	≤额定电压75% ≤Rated voltage 75%	≥额定电压10% ≥Rated voltage 10%	额定电压的110% Rated voltage 110%	约0.9W~1.1W

注: 1、线圈电阻值指的是线圈温度为+23°C时的值。公差为AC线圈电阻±15%, DC线圈电阻: 额定电压<DC100V为±10%, 额定电压≥DC110V为±15%。

2、最大容许电压是指继电器线圈在短时间内能够承受的最大电压值。

Note: 1、coil resistance value refers to the value when the coil temperature is @+ 23°C. AC Coil Resistance ±15%. DC Coil: ±10% when voltage is less than 100V, and ±15% when voltage is big than 110V.

2、The maximum allowable voltage refers to the maximum voltage value that the relay coil can withstand in a short time.

### 性能 Product Specification

接触电阻 (Contact resistance)	100mΩ以下(DC6V 1A)	
动作时间 (Actions Time)	20ms以下	
释放时间 (Release Time)	AC<25ms、DC<15ms	
操作频率 (Frequency)	机械 (Mechanical)	18,000次/h
	电气 (Electrical)	12,000次/h
耐电压 (Dielectric)	绝缘电阻 (Insulation Resistance)	1000MΩ(500VDC)
	线圈与触点间 (b/w Coil & Contacts)	AC2000V 1min
	同极触点间 (b/w Contacts)	AC1000V 1min
振动 (Vibration)	异极触点间	AC1500V 1min
	误动作振荡 (Malfunction)	10~55Hz(双振幅double side 1.5mm)
冲击 (Impact)	耐久振荡 (Endurance)	10~55Hz(双振幅double side 1.5mm)
	误动作冲击 (Malfunction)	98m/s
环境	耐久冲击 (Endurance)	980m/s
	周围环境温度 (Working Temp.)	-40°C~70°C
耐久性 (Lifecycle)	周围环境湿度 (Humidity)	5%~85%RH
	机械 (Mechanical)	1,000万次以上 (10M cycles)
	电气(阻性负载) (Resistance load)	100,000次以上 (100K cycles)
	重量 (Weight)	约35g

## 触点额定值 Contact Features

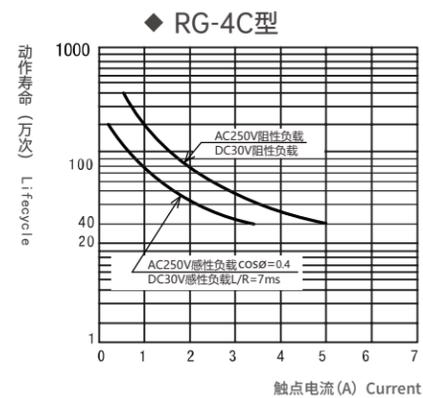
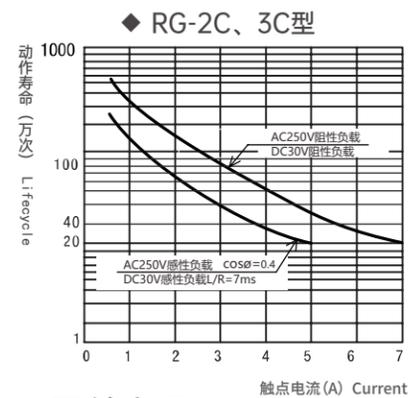
项目 Items	负载 Load	2C/O型、3C/O型	4C/O型
		阻性负载 Resistance Load	阻性负载 Resistance Load
额定负载 Rated Load		AC250V 7A DC30V 7A	AC250V 5A DC30V 5A
额定通电电流 Rated Current		7A	5A
最大的切换功率 Max. Power		1750VA/210W	1250VA/150W
触点电流的最大值 Max. Current		7A	5A
触点形式 Cotact Form		2C/O、3C/O	4C/O
触点材料 Contact Material		银合金 Ag Alloy	

参数 Specs	标准型 Standard Type	二极管、RC内置型 RC Inside Type
使用环境温度 Working Temp.	-40°C~ +55°C*1	-25°C~+55°C*2
环境湿度使用 Working Humidity	5%~85%RH	

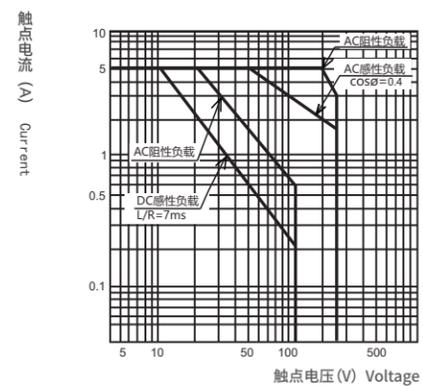
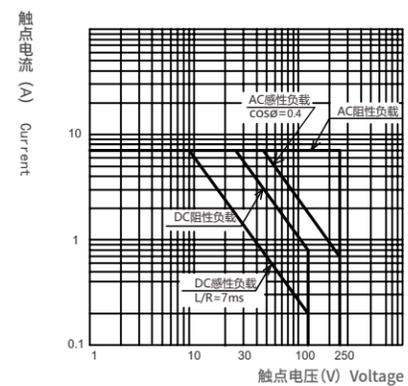
- \*1、无结冰、结露。 \*2、二极管的温度及使用元件的限制,使用环境温度上限为55°C。  
 \*1、No ice or dew. \*2、The Max. working Temperature is 55°C due to certain electronics like diode.

## 特性数据 Lifecycle Feature

### 寿命 Endurance

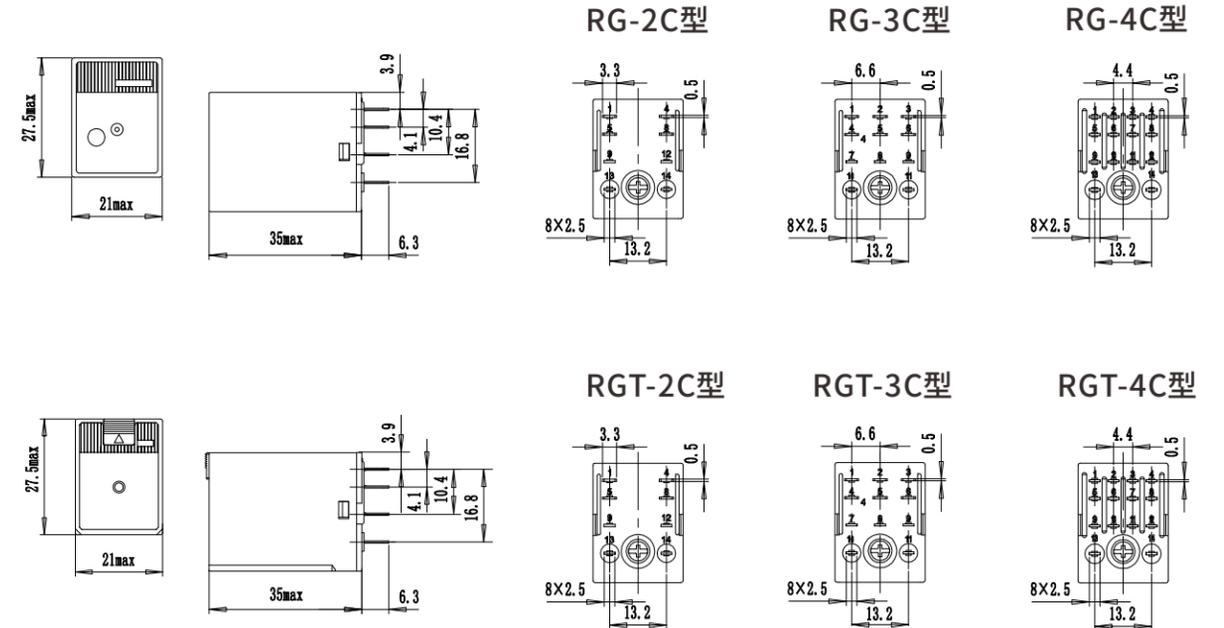


### 开关容量 Contacts Capacity

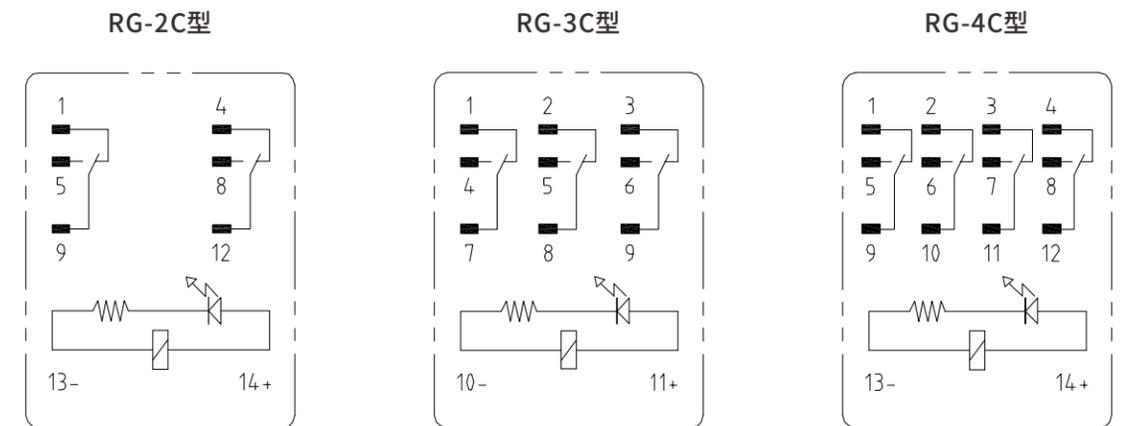


## 外形尺寸 Profiles

### 继电器外形尺寸 Relay Head Profile



### 内部接线图 Wiring Diagram



- 注:1、DC规格产品请注意线圈极性、在确认线圈极性后正确接线。  
 2、未注尺寸公差: <1mm为±0.2mm, <1~5mm为±0.3mm, >5mm为0.4mm。  
 3、安装孔尺寸未注公差: ±0.1mm。  
 Note: 1、Please note the polarity before correctly wiring for DC products.  
 2、Undefined Tolerance: ±0.2mm where <1mm; ±0.3mm where <1~5mm; 0.4mm where >5mm.  
 3、Undefined Profile Tolerance: ±0.1mm.

# 插座 |



## 插座特点

- 介质耐压可达2000VAC, 绝缘电阻10MΩ Dielectric test 2000V/AC, Insulation Resistance 10MΩ
- 插座标配带手指保护with finger protection
- 螺钉式、直插式、PCB焊接式插座可选择both DIN rail mounting, & PCB welding type
- 有多种保护模块供选择 function module
- 环保产品(符合RoHS)RoHS Free Products

## SGB系列

## SEB-RCF-1C、2C

### 产品性能

Products Specification



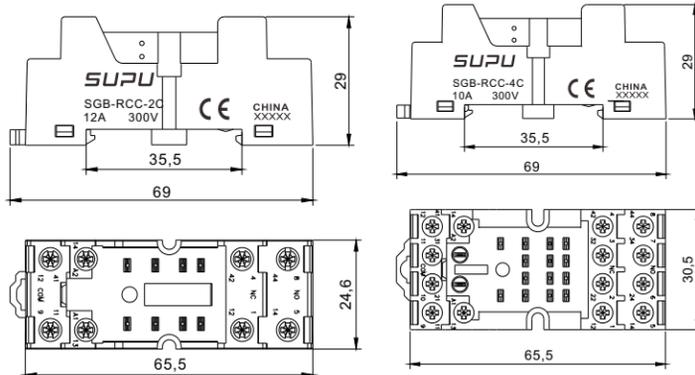
SGB-RCC-2C



SGB-RCC-4C

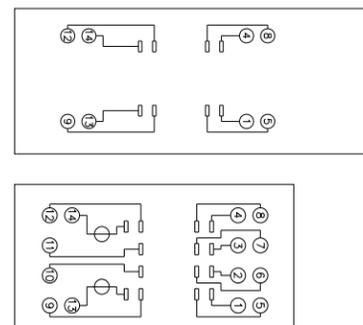
订货型号Order type		SGB-RCC-2C	SGB-RCC-4C
额定负载 Rated Load	电流 Current	12A	10A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength		线圈与触点:4000V/S	
		触点与触点:2500V/S	
使用环境 Ambient temperature		-40°C~+85°C	
相对湿度 Relative humidity		<95%	
螺钉扭矩 Screw torque		1.0Nm	
外接导线 External connection wire		20-16/0.5-1.5AWG/mm <sup>2</sup>	
重量 Weight		34g	42g

### 外形尺寸 Outline dimensions



### 端子配置内部连接

Wiring Diagram



## SGB系列

## SGB-RCF-2C、4C

### 产品性能 Products Specification



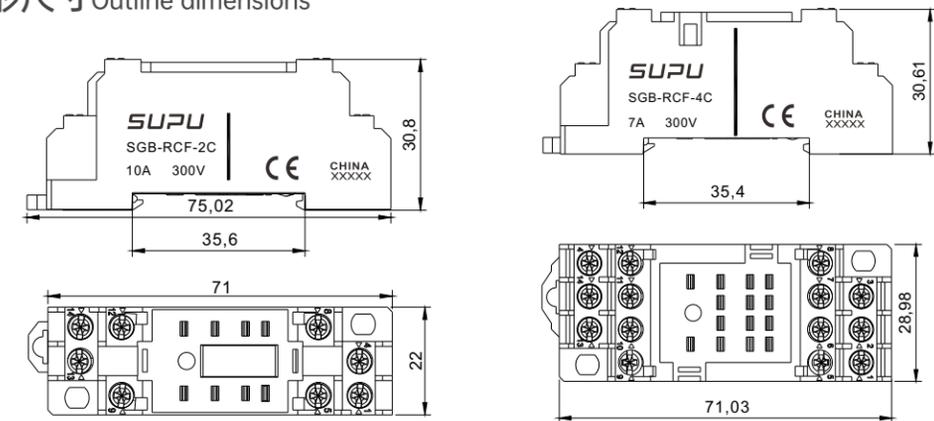
SGB-RCF-2C



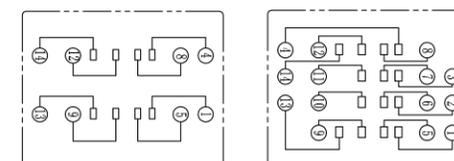
SGB-RCF-4C

订货型号Order type		SGB-RCF-2C	SGB-RCF-4C
额定负载 Rated Load	电流 Current	10A	7A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength		线圈与触点:4000V/S	
		触点与触点:2500V/S	
使用环境 Ambient temperature		-40°C~+85°C	
相对湿度 Relative humidity		<95%	
螺钉扭矩 Screw torque		1.0Nm	
外接导线 External connection wire		20-16/0.5-1.5AWG/mm <sup>2</sup>	
重量 Weight		34g	52g

### 外形尺寸 Outline dimensions

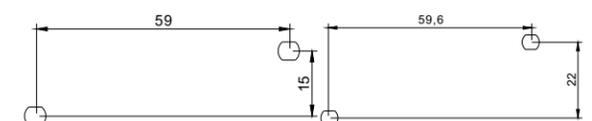


### 端子配置内部连接 Wiring Diagram



### 外形尺寸、安装尺寸

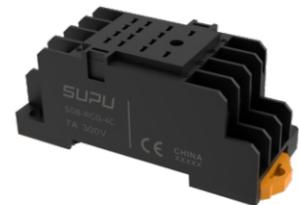
Outline /Mount dimensions (mm)



▶ 产品性能 Products Specification



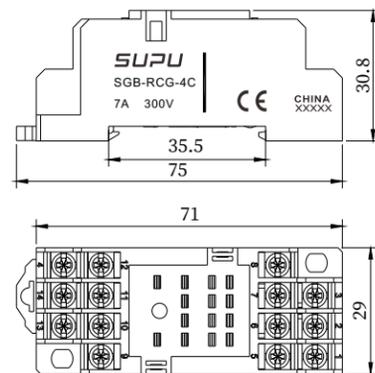
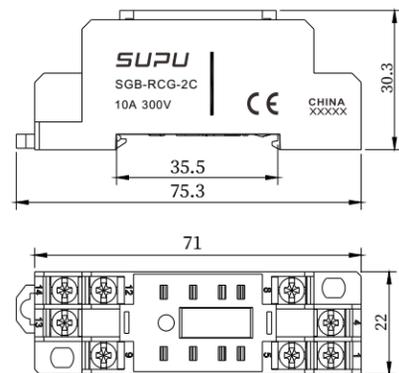
SGB-RCG-2C



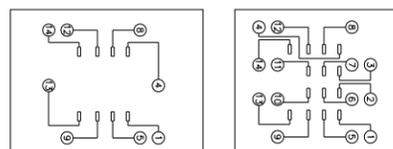
SGB-RCG-4C

订货型号Order type		SGB-RCG-2C	SGB-RCG-4C
额定负载 Rated Load	电流 Current	10A	7A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength		线圈与触点:4000V/S	
		触点与触点:2500V/S	
使用环境 Ambient temperature		-40°C~+85°C	
相对湿度 Relative humidity		<95%	
螺钉扭矩 Screw torque		1.0Nm	
外接导线 External connection wire		20-16/0.5-1.5AWG/mm <sup>2</sup>	
重量 Weight		33g	49g

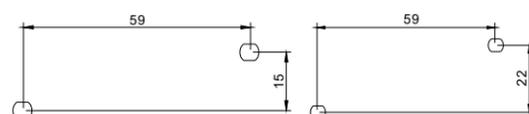
▶ 外形尺寸 Outline dimensions



▶ 端子配置内部连接 Wiring Diagram



▶ 外形尺寸、安装尺寸  
Outline /Mount dimensions (mm)



▶ 产品性能 Products Specification



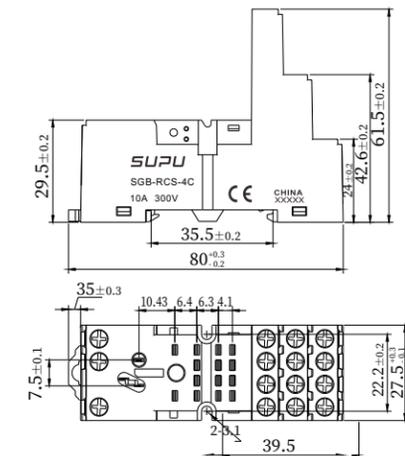
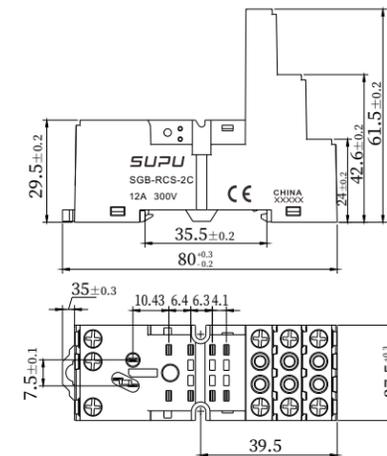
SGB-RCS-2C



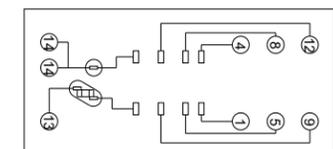
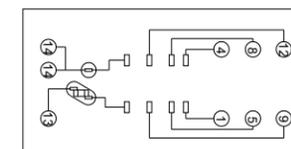
SGB-RCS-4C

订货型号Order type		SGB-RCS-2C	SGB-RCS-4C
额定负载 Rated Load	电流 Current	10A	7A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength		线圈与触点:4000V/S	
		触点与触点:2500V/S	
使用环境 Ambient temperature		-40°C~+85°C	
相对湿度 Relative humidity		<95%	
螺钉扭矩 Screw torque		无	
外接导线 External connection wire		20-16/0.5-1.5AWG/mm <sup>2</sup>	
重量 Weight		56g	68g

▶ 外形尺寸 Outline dimensions



▶ 端子配置内部连接 Wiring Diagram



▶ 产品性能 Products Specification



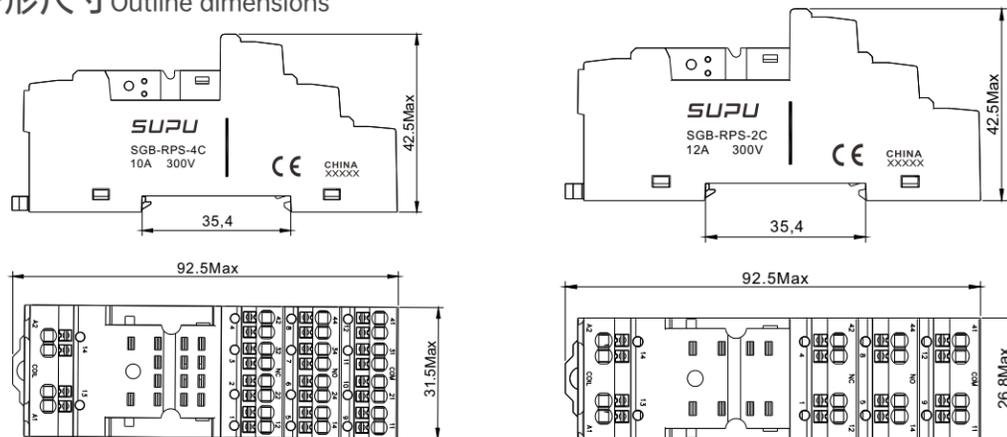
SGB-RPS-2C



SGB-RPS-4C

订货型号Order type		SGB-RPS-2C	SGB-RPS-4C
额定负载 Rated Load	电流 Current	12A	10A
	电压 Voltage	300VAC	
介质耐压 Dielectric Strength		线圈与触点:4000V/S	
		触点与触点:2500V/S	
使用环境 Ambient temperature		-40°C~+85°C	
相对湿度 Relative humidity		<95%	
螺钉扭矩 Screw torque		无	
外接导线 External connection wire		20-16/0.5-1.5AWG/mm <sup>2</sup>	
重量 Weight		46g	48g

▶ 外形尺寸 Outline dimensions



▶ 端子配置内部连接 Wiring Diagram



# 附件列表

Accessory

- 型号列表 (继电器+底座总成)  
Model Listings (Relay Head + Socket)
- 附件 (保护模块、汇流排)  
Accessory (Function Module、Bar Bridge)
- 外形尺寸  
Profile Dimension
- 使用注意事项  
Note for Usage



# 型号列表(继电器+底座总成) Model Listings (Relay Head + Socket)

见下一页

产品成套系列 Set Types	物料描述 Product Description
超薄型-直插接线(Slim/PT)	超薄直插,一对触点(1CO), 24VDC, 6A中间继电器
超薄型-直插接线(Slim/PT)	超薄直插,一对触点(1CO), 230VDC, 6A中间继电器
PCB型-直插接线(PCB/PT)	PCB型继电器模块,1回路(1CO)12A、24DC+螺钉, 隔离式底座
PCB型-直插接线(PCB/PT)	PCB型继电器模块,2回路(2CO)8A、24DC+螺钉, 隔离式底座
PCB型-直插接线(PCB/PT)	PCB型继电器模块,1回路(1CO)12A、24DC+直插(PT), 隔离式底座
PCB型-直插接线(PCB/PT)	PCB型继电器模块,2回路(2CO)8A、24DC+直插(PT), 隔离式底座
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 无测试按钮(without test button), 24VDC+螺钉, 普通底座(General)
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 无测试按钮(without test button), 230VDC+螺钉, 普通底座(General)
薄型-螺钉接线(Compact/Screw)	薄型2回路(2CO)继电器, 无测试按钮(without test button), 24VDC+螺钉, 普通底座(General)
薄型-螺钉接线(Compact/Screw)	薄型2回路(2CO)继电器, 无测试按钮(without test button), 230VDC+螺钉, 普通底座(General)
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 带测试按钮(with test button), 24VDC+螺钉, 普通底座(General)
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 带测试按钮(with test button), 230VDC+螺钉, 普通底座(General)
薄型-螺钉接线(Compact/Screw)	薄型2回路(2CO)继电器, 带测试按钮(with test button), 24VDC+螺钉, 普通底座(General)
薄型-螺钉接线(Compact/Screw)	薄型2回路(2CO)继电器, 带测试按钮(with test button), 230VDC+螺钉, 普通底座(General)
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 无测试按钮(without test button), 24VDC+螺钉, 防护底座(Fence)
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 无测试按钮(without test button), 230VDC+螺钉, 防护底座(Fence)
薄型-螺钉接线(Compact/Screw)	薄型2回路(2CO)继电器, 无测试按钮(without test button), 24VDC+螺钉, 防护底座(Fence)
薄型-螺钉接线(Compact/Screw)	薄型2回路(2CO)继电器, 无测试按钮(without test button), 230VDC+螺钉, 防护底座(Fence)
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 带测试按钮(with test button), 24VDC+螺钉, 防护底座(Fence)
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 带测试按钮(with test button), 230VDC+螺钉, 防护底座(Fence)
薄型-螺钉接线(Compact/Screw)	薄型2回路(1CO)继电器, 带测试按钮(with test button), 24VDC+螺钉, 防护底座(Fence)
薄型-螺钉接线(Compact/Screw)	薄型2回路(2CO)继电器, 带测试按钮(with test button), 230VDC+螺钉, 防护底座(Fence)
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 无测试按钮(without test button), 24VDC+螺钉, 隔离底座(Segregate)
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 无测试按钮(without test button), 230VDC+螺钉, 隔离底座(Segregate)
薄型-螺钉接线(Compact/Screw)	薄型2回路(1CO)继电器, 无测试按钮(without test button), 24VDC+螺钉, 隔离底座(Segregate)
薄型-螺钉接线(Compact/Screw)	薄型2回路(2CO)继电器, 无测试按钮(without test button), 230VDC+螺钉, 隔离底座(Segregate)
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 带测试按钮(with test button), 24VDC+螺钉, 隔离底座(Segregate)
薄型-螺钉接线(Compact/Screw)	薄型1回路(1CO)继电器, 带测试按钮(with test button), 230VDC+螺钉, 隔离底座(Segregate)
薄型-螺钉接线(Compact/Screw)	薄型2回路(2CO)继电器, 带测试按钮(with test button), 24VDC+螺钉, 隔离底座(Segregate)
薄型-螺钉接线(Compact/Screw)	薄型2回路(2CO)继电器, 带测试按钮(with test button), 230VDC+螺钉, 隔离底座(Segregate)
薄型-直插接线(Compact/PT)	薄型1回路(1CO)继电器模块, 无测试按钮(without test button), 24VDC, 12A直插接线(PT), 带LD模块底座
薄型-直插接线(Compact/PT)	薄型1回路(1CO)继电器模块, 无测试按钮(without test button), 230VDC+12A直插接线(PT), 带LD模块底座

总成订货号 Set Name	组件 Components		
	继电器插头订货号 Relay Head Order No.	继电器底座订货号 Relay Socket Order No.	模块 Function Module
SCR-RP-24DC-1C	RC-24DC-1C	SCB-RP-24DC-1C	/
SCR-RP-230DC-1C	RC-60DC-1C	SCB-RP-230DC-1C	/
SBR-RCS-24DC-1C	RB-24DC-1C	SBB-RCS-1C	SM
SBR-RCS-24DC-2C	RB-24DC-2C	SBB-RCS-2C	SM
SBR-RPF-24DC-1C	RB-24DC-1C	SBB-RPF-1C	SM
SBR-RPF-24DC-2C	RB-24DC-2C	SBB-RPF-2C	SM
SER-RCG-24DC-1C	RE-24DC-1C	SEB-RCG-1C	/
SER-RCG-230AC-1C	RE-230AC-1C		/
SER-RCG-24DC-2C	RE-24DC-2C	SEB-RCG-2C	/
SER-RCG-230AC-2C	RE-230AC-2C		/
SERT-RCG-24DC-1C	RET-24DC-1C	SEB-RCG-1C	/
SERT-RCG-230AC-1C	RET-230AC-1C		/
SERT-RCG-24DC-2C	RET-24DC-2C	SEB-RCG-2C	/
SERT-RCG-230AC-2C	RET-230AC-2C		/
SER-RCF-24DC-1C	RE-24DC-1C	SEB-RCF-1C	/
SER-RCF-230AC-1C	RE-230AC-1C		/
SER-RCF-24DC-2C	RE-24DC-2C	SEB-RCF-2C	/
SER-RCF-230AC-2C	RE-230AC-2C		/
SERT-RCF-24DC-1C	RET-24DC-1C	SEB-RCF-1C	/
SERT-RCF-230AC-1C	RET-230AC-1C		/
SERT-RCF-24DC-2C	RET-24DC-2C	SEB-RCF-2C	/
SERT-RCF-230AC-2C	RET-230AC-2C		/
SER-RCS-24DC-1C	RE-24DC-1C	SEB-RCS-1C	SM
SER-RCS-230AC-1C	RE-230AC-1C		SM
SER-RCS-24DC-2C	RE-24DC-2C	SEB-RCS-2C	SM
SER-RCS-230AC-2C	RE-230AC-2C		SM
SERT-RCS-24DC-1C	RET-24DC-1C	SEB-RCS-1C	SM
SERT-RCS-230AC-1C	RET-230AC-1C		SM
SERT-RCS-24DC-2C	RET-24DC-2C	SEB-RCS-2C	SM
SERT-RCS-230AC-2C	RET-230AC-2C		SM
SER-RPM-24DC-1C	RE-24DC-1C	SEB-RPM-1C	SM
SER-RPM-230AC-1C	RE-230AC-1C		SM

# 型号列表(继电器+底座总成) Model Listings (Relay Head + Socket)

见下一页

产品成套系列 Set Types	物料描述 Product Description
薄型-直插接线(Compact/PT)	薄型2回路(2CO)继电器模块, 无测试按钮(without test button), 24VDC, 8A直插接线(PT), 带LD模块底座
薄型-直插接线(Compact/PT)	薄型2回路(2CO)继电器模块, 无测试按钮(without test button), 230VDC+8A直插接线(PT), 带LD模块底座
薄型-直插接线(Compact/PT)	薄型1回路(1CO)继电器模块, 带测试按钮(with test button), 24VDC+12A直插接线(PT), 带LD模块底座
薄型-直插接线(Compact/PT)	薄型1回路(1CO)继电器模块, 带测试按钮(with test button), 230VDC+12A直插接线(PT), 带LD模块底座
薄型-直插接线(Compact/PT)	薄型2回路(2CO)继电器模块, 带测试按钮(with test button), 24VDC+8A直插接线(PT), 带LD模块底座
薄型-直插接线(Compact/PT)	薄型2回路(2CO)继电器模块, 带测试按钮(with test button), 230VDC+8A直插接线(PT), 带LD模块底座
薄型-直插接线(Compact/PT)	薄型1回路(1CO)继电器模块, 无测试按钮(without test button), 24VDC, 12A直插接线(PT), 隔离底座(Segregate)
薄型-直插接线(Compact/PT)	薄型1回路(1CO)继电器模块, 无测试按钮(without test button), 230VDC+12A直插接线(PT), 隔离底座(Segregate)
薄型-直插接线(Compact/PT)	薄型2回路(2CO)继电器模块, 无测试按钮(without test button), 24VDC, 8A直插接线(PT), 隔离底座(Segregate)
薄型-直插接线(Compact/PT)	薄型2回路(2CO)继电器模块, 无测试按钮(without test button), 230VDC+8A直插接线(PT), 隔离底座(Segregate)
薄型-直插接线(Compact/PT)	薄型1回路(1CO)继电器, 带测试按钮(with test button), 24VDC+直插接线(PT), 隔离底座(Segregate)
薄型-直插接线(Compact/PT)	薄型1回路(1CO)继电器, 带测试按钮(with test button), 230VDC+直插接线(PT), 隔离底座(Segregate)
薄型-直插接线(Compact/PT)	薄型2回路(2CO)继电器, 带测试按钮(with test button), 24VDC+直插接线(PT), 隔离底座(Segregate)
薄型-直插接线(Compact/PT)	薄型2回路(2CO)继电器, 带测试按钮(with test button), 230VDC+直插接线(PT), 隔离底座(Segregate)
标准型-直插接线(Standard/PT)	标准型2回路(2CO)继电器模块, 无测试按钮(without test button), 24VDC, 7A直插接线(PT)
标准型-直插接线(Standard/PT)	标准型2回路(2CO)继电器模块, 无测试按钮(without test button), 230VAC, 7A直插接线(PT)
标准型-直插接线(Standard/PT)	标准型4回路(4CO)继电器模块, 无测试按钮(without test button), 24VDC, 5A直插接线(PT)
标准型-直插接线(Standard/PT)	标准型4回路(4CO)继电器模块, 无测试按钮(without test button), 230VAC, 5A直插接线(PT)
标准型-直插接线(Standard/PT)	标准型2回路(2CO)继电器模块, 带测试按钮(with test button), 24VDC, 7A直插接线(PT)
标准型-直插接线(Standard/PT)	标准型2回路继电器模块, 带测试按钮(with test button), 230VAC, 7A直插接线(PT)
标准型-直插接线(Standard/PT)	标准型4回路继电器模块, 带测试按钮(with test button), 24VDC, 5A直插接线(PT)
标准型-直插接线(Standard/PT)	标准型4回路继电器模块, 带测试按钮(with test button), 230VAC, 5A直插接线(PT)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 不带测试按钮(without test button), 24VDC+螺钉接线(Screw), 混合接线底座(Commixture)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 不带测试按钮(without test button), 230VDC+螺钉接线(Screw), 混合接线底座(Commixture)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 不带测试按钮(without test button), 24VDC+螺钉接线(Screw), 混合接线底座(Commixture)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 不带测试按钮(without test button), 230VDC+螺钉接线(Screw), 混合接线底座(Commixture)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 带测试按钮(with test button), 24VDC+螺钉接线(Screw), 混合接线底座(Commixture)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 带测试按钮(with test button), 230VDC+螺钉接线(Screw), 混合接线底座(Commixture)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 带测试按钮(with test button), 24VDC+螺钉接线(Screw), 混合接线底座(Commixture)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 带测试按钮(with test button), 230VDC+螺钉接线(Screw), 混合接线底座(Commixture)
标准型-螺钉接线(Standard/Screw)	标准系列螺钉接线中间继电器, 两对触点, 无测试按钮(without test button), 24VDC
标准型-螺钉接线(Standard/Screw)	标准系列螺钉接线中间继电器, 两对触点, 无测试按钮(without test button), 230VDC

总成订货号 Set Name	组件 Components		
	继电器插头订货号 Relay Head Order No.	继电器底座订货号 Relay Socket Order No.	模块 Function Module
SER-RPM-24DC-2C	RE-24DC-2C	SEB-RPM-2C	SM
SER-RPM-230AC-2C	RE-230AC-2C		SM
SERT-RPM-24DC-1C	RET-24DC-1C	SEB-RPM-1C	SM
SERT-RPM-230AC-1C	RET-230AC-1C		SM
SERT-RPM-24DC-2C	RET-24DC-2C	SEB-RPM-2C	SM
SERT-RPM-230AC-2C	RET-230AC-2C		SM
SER-RPS-24DC-1C	RE-24DC-1C	SEB-RPS-1C	/
SER-RPS-230AC-1C	RE-230AC-1C		/
SER-RPS-24DC-2C	RE-24DC-2C	SEB-RPS-2C	/
SER-RPS-230AC-2C	RE-230AC-2C		/
SERT-RPS-24DC-1C	RET-24DC-1C	SEB-RPS-1C	/
SERT-RPS-230AC-1C	RET-230AC-1C		/
SERT-RPS-24DC-2C	RET-24DC-2C	SEB-RPS-2C	/
SERT-RPS-230AC-2C	RET-230AC-2C		/
SGR-RPS-24DC-2C	RG-24DC-2C	SGB-RPS-2C	/
SGR-RPS-230AC-2C	RG-230AC-2C		/
SGR-RPS-24DC-4C	RG-24DC-4C	SGB-RPS-4C	/
SGR-RPS-230AC-4C	RG-230AC-4C		/
SGRT-RPS-24DC-2C	RGT-24DC-2C	SGB-RPS-2C	/
SGRT-RPS-230AC-2C	RGT-230AC-2C		/
SGRT-RPS-24DC-4C	RGT-24DC-4C	SGB-RPS-4C	/
SGRT-RPS-230AC-4C	RGT-230AC-4C		/
SGR-RCC-24DC-2C	RG-24DC-2C	SGB-RCC-2C	/
SGR-RCC-230AC-2C	RG-230AC-2C		/
SGR-RCC-24DC-4C	RG-24DC-4C	SGB-RCC-4C	/
SGR-RCC-230AC-4C	RG-230AC-4C		/
SGRT-RCC-24DC-2C	RGT-24DC-2C	SGB-RCC-2C	/
SGRT-RCC-230AC-2C	RGT-230AC-2C		/
SGRT-RCC-24DC-4C	RGT-24DC-4C	SGB-RCC-4C	/
SGRT-RCC-230AC-4C	RGT-230AC-4C		/
SGR-RC-24DC-2C	RG-24DC-2C	SGB-RC-2C	/
SGR-RC-230AC-2C	RG-230AC-2C		/

# 型号列表(继电器+底座总成) Model Listings (Relay Head + Socket)

见下一页

产品成套系列 Set Types	物料描述 Product Description
标准型-螺钉接线(Standard/Screw)	标准系列螺钉接线中间继电器, 四对触点, 无测试按钮(without test button), 24VDC
标准型-螺钉接线(Standard/Screw)	标准系列螺钉接线中间继电器, 四对触点, 无测试按钮(without test button), 230VDC
标准型-螺钉接线(Standard/Screw)	标准系列螺钉接线中间继电器, 两对触点, 带测试按钮(with test button), 24VDC
标准型-螺钉接线(Standard/Screw)	标准系列螺钉接线中间继电器, 两对触点, 带测试按钮(with test button), 230VDC
标准型-螺钉接线(Standard/Screw)	标准系列螺钉接线中间继电器, 四对触点, 带测试按钮(with test button), 24VDC
标准型-螺钉接线(Standard/Screw)	标准系列螺钉接线中间继电器, 四对触点, 带测试按钮(with test button), 230VDC
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器模块, 不带测试按钮(without test button), 24VDC+7A螺钉接线(Screw), 防护型底座(Fence)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器模块, 不带测试按钮(without test button), 230VDC+7A螺钉接线(Screw), 防护型底座(Fence)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器模块, 不带测试按钮(without test button), 24VDC+5A螺钉接线(Screw), 防护型底座(Fence)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器模块, 不带测试按钮(without test button), 230VDC+5A螺钉接线(Screw), 防护型底座(Fence)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 带测试按钮, 24VDC+螺钉接线(Screw), 防护型底座(Fence)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 带测试按钮(with test button), 230VDC+螺钉接线(Screw), 防护型底座(Fence)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 带测试按钮(with test button), 24VDC+螺钉接线(Screw), 防护型底座(Fence)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 带测试按钮(with test button), 230VDC+螺钉接线(Screw), 防护型底座(Fence)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 不带测试按钮(without test button), 24VDC+螺钉接线(Screw), 普通底座(General)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 不带测试按钮(without test button), 230VDC+螺钉接线(Screw), 普通底座(General)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 不带测试按钮(without test button), 24VDC+螺钉接线(Screw), 普通底座(General)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 不带测试按钮(without test button), 230VDC+螺钉接线(Screw), 普通底座(General)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 带测试按钮(with test button), 24VDC+螺钉接线(Screw), 普通底座(General)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 带测试按钮(with test button), 230VDC+螺钉接线(Screw), 普通底座(General)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 带测试按钮(with test button), 24VDC+螺钉接线(Screw), 普通底座(General)
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 带测试按钮(with test button), 230VDC+螺钉接线(Screw), 普通底座(General)
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 不带测试按钮(without test button), 24VDC+螺钉接线(Screw), 分离型底座
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 不带测试按钮(without test button), 230VDC+螺钉接线(Screw), 分离型底座
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 不带测试按钮(without test button), 24VDC+螺钉接线(Screw), 分离型底座
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 不带测试按钮(without test button), 230VDC+螺钉接线(Screw), 分离型底座
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 带测试按钮(with test button), 24VDC+螺钉接线(Screw), 分离型底座
标准型-螺钉接线(Standard/Screw)	标准型2触点继电器, 带测试按钮(with test button), 230VDC+螺钉接线(Screw), 分离型底座
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 带测试按钮(with test button), 24VDC+螺钉接线(Screw), 分离型底座
标准型-螺钉接线(Standard/Screw)	标准型4触点继电器, 带测试按钮(with test button), 230VDC+螺钉接线(Screw), 分离型底座

总成订货号 Set Name	组件 Components		
	继电器插头订货号 Relay Head Order No.	继电器底座订货号 Relay Socket Order No.	模块 Function Module
SGR-RC-24DC-4C	RG-24DC-4C	SGB-RC-4C	/
SGR-RC-230AC-4C	RG-230AC-4C		/
SGRT-RC-24DC-2C	RGT-24DC-2C	SGB-RC-2C	/
SGRT-RC-230AC-2C	RGT-230AC-2C		/
SGRT-RC-24DC-4C	RGT-24DC-4C	SGB-RC-4C	/
SGRT-RC-230AC-4C	RGT-230AC-4C		/
SGR-RCF-24DC-2C	RG-24DC-2C	SGB-RCF-2C	/
SGR-RCF-230AC-2C	RG-230AC-2C		/
SGR-RCF-24DC-4C	RG-24DC-4C	SGB-RCF-4C	/
SGR-RCF-230AC-4C	RG-230AC-4C		/
SGRT-RCF-24DC-2C	RGT-24DC-2C	SGB-RCF-2C	/
SGRT-RCF-230AC-2C	RGT-230AC-2C		/
SGRT-RCF-24DC-4C	RGT-24DC-4C	SGB-RCF-4C	/
SGRT-RCF-230AC-4C	RGT-230AC-4C		/
SGR-RCG-24DC-2C	RG-24DC-2C	SGB-RCG-2C	/
SGR-RCG-230AC-2C	RG-230AC-2C		/
SGR-RCG-24DC-4C	RG-24DC-4C	SGB-RCG-4C	/
SGR-RCG-230AC-4C	RG-230AC-4C		/
SGRT-RCG-24DC-2C	RGT-24DC-2C	SGB-RCG-2C	/
SGRT-RCG-230AC-2C	RGT-230AC-2C		/
SGRT-RCG-24DC-4C	RGT-24DC-4C	SGB-RCG-4C	/
SGRT-RCG-230AC-4C	RGT-230AC-4C		/
SGR-RCS-24DC-2C	RG-24DC-2C	SGB-RCS-2C	SM
SGR-RCS-230AC-2C	RG-230AC-2C		SM
SGR-RCS-24DC-4C	RG-24DC-4C	SGB-RCS-4C	SM
SGR-RCS-230AC-4C	RG-230AC-4C		SM
SGRT-RCS-24DC-2C	RGT-24DC-2C	SGB-RCS-2C	SM
SGRT-RCS-230AC-2C	RGT-230AC-2C		SM
SGRT-RCS-24DC-4C	RGT-24DC-4C	SGB-RCS-4C	SM
SGRT-RCS-230AC-4C	RGT-230AC-4C		SM

保护模块 Function Module

订货号 order No	接线图 Wiring diagram	物料描述 Material Description
SM-V-24V		压敏电阻浪涌保护模块,AC/DC (MOV, AC/DC)
SM-V-115V		压敏电阻浪涌保护模块,AC/DC (MOV, AC/DC)
SM-V-230V		压敏电阻浪涌保护模块,AC/DC (MOV, AC/DC)
SM-RC-6~24V		RC浪涌吸收保护模块,AC/DC
SM-RC-24~60V		RC浪涌吸收保护模块,AC/DC
SM-RC-110~230V		RC浪涌吸收保护模块,AC/DC
SM-D1-6~220DC		A1+, A2-带续流二极管模块, DC (A1+, A2-, FWD, DC)
SM-D2-6~220DC		A1-, A2+带续流二极管模块, DC (A1+, A2-, FWD, DC)
SM-L1-6~24V		A1+, A2-带绿色指示灯、反向(整流)二极管 (Diode) 模块,AC/DC
SM-L1-24~60V		A1+, A2-带绿色指示灯、反向(整流)二极管 (Diode) 模块,AC/DC
SM-LR1-110~230V		A1+, A2-带红色指示灯、反向(整流)二极管 (Diode) 模块,AC/DC
SM-L2-6~24V		A1-, A2+带绿色指示灯、反向(整流)二极管 (Diode) 模块,AC/DC
SM-L2-24~60V		A1-, A2+带绿色指示灯、反向(整流)二极管 (Diode) 模块,AC/DC
SM-LR2-110~230V		A1-, A2+带红色指示灯、反向(整流)二极管 (Diode) 模块,AC/DC
SM-VL1-6~24V		A1+, A2-带绿色指示灯、反向(整流)二极管、压敏 (MOV) 电阻模块,AC/DC
SM-VL1-12~48V		A1+, A2-带绿色指示灯、反向(整流)二极管、压敏 (MOV) 电阻模块,AC/DC
SM-VL1-24~60V		A1+, A2-带绿色指示灯、反向(整流)二极管、压敏 (MOV) 电阻模块,AC/DC
SM-VLR1-110~230V		A1+, A2-带红色指示灯、反向(整流)二极管、压敏 (MOV) 电阻模块,AC/DC
SM-LD1-6~24DC		A1+, A2-带绿色指示灯、续流二极管模块, DC (A1+,A2-,Green LED, FWD, DC)
SM-LD1-24~60DC		A1+, A2-带绿色指示灯、续流二极管模块, DC (A1+,A2-,Green LED, FWD, DC)
SM-LDR1-110~230DC		A1+, A2-带红色指示灯、续流二极管模块, DC (A1+,A2-,Green LED, FWD, DC)
SM-LD2-6~24DC		A1-, A2+带绿色指示灯、续流二极管模块, DC (A1+,A2-,Green LED, FWD, DC)
SM-LD2-24~60DC		A1-, A2+带绿色指示灯、续流二极管模块, DC (A1+,A2-,Green LED, FWD, DC)
SM-LDR2-110~230DC		A1-, A2+带红色指示灯、续流二极管模块, DC (A1+,A2-,Green LED, FWD, DC)
SGP-01		不锈钢片卡簧 SUS Plate
SGP-02		不锈钢丝卡簧 SUS Wire

汇流排 Bar Bridge

订货号 order No	产品图 Wiring diagram	物料号 Material number	物料描述 Material Description
BEC-15.8		468091025	汇流排, 12A, 间距15.8mm Bar Bridge, 12A, Pitch15.8mm
BGC2-22.2		468091026	汇流排, 12A, 间距22.2mm Bar Bridge, 12A, Pitch22.2mm
BGC4-29.2		468091027	汇流排, 12A, 间距29.2mm Bar Bridge, 12A, Pitch29.2mm
BGU-27.25		468091028	汇流排, 12A, 间距27.25mm Bar Bridge, 12A, Pitch27.25mm
BBEU-15.7		468091029	汇流排, 12A, 间距15.7mm Bar Bridge, 12A, Pitch15.7mm
BEP-12.5		468091030	汇流排, 12A, 间距12.5mm Bar Bridge, 12A, Pitch12.5mm
BGP-23.2		468091031	汇流排, 12A, 间距23.2mm Bar Bridge, 12A, Pitch23.2mm
BGP-28.1		468091032	汇流排, 12A, 间距28.1mm Bar Bridge, 12A, Pitch28.1mm

保护模块/桥接件	外形尺寸图(单位:mm)	
<b>保护模块</b> Function Module Bar Bridge		
<b>BEC-15.8</b>		
<b>BGC2-22.2</b>		
<b>BGC4-29.2</b>		
<b>BEP-12.5</b>		
<b>BGU-27.25</b>		
<b>BBEU-15.7</b>		
<b>BGP-23.2</b>		
<b>BGP-28.1</b>		

### 1 关于线圈施加电压 About Coil Voltage

为了能够正常工作，在使用时请在线圈两端加上线圈额定操作电压的±5% (at20℃)。此外，在不同的使用温度和使用条件下，吸合电压、释放电压会发生变化，因此请加以注意。

In order to function properly, please add ± 5% of the rated operating voltage of the coil (at 20 °C) to both ends of the coil during use. In addition, under different usage temperatures and conditions, the close voltage and release voltage may change, so please pay attention.

### 2 关于LED显示 About LED display

通过发光二极管的闪光，显示工作情况。继电器开放后，还有残留电压时，有时会闪烁。

Display the working status through the flashing of light-emitting diodes. When there is residual voltage after the relay is turned on, it sometimes flashes.

### 3 关于通断寿命 About on/off life

通断寿命是指在IEC 61810的标准试验状态（温度15~35℃、湿度25~75%RH）下的寿命。通断寿命会因为线圈驱动电路、负荷种类、通断频率、通断相位、周围气氛等不同，所以请在实际的设备上确认。特别是在如下所示的负荷情况下，需要引起注意。

- 1) 在交流负荷通断状态下，通断相位同步时容易发生因触点移动导致的锁定和粘连。
- 2) 高频率地进行负荷通断时触点通断时，高频率地通断发生电弧时，由于电弧能量使空气中的N和O结合起来，生成HNO<sub>3</sub>，有时会使金属材料发生腐蚀。

The on/off life refers to the life under the standard test conditions of IEC 61810 (temperature 15-35 °C, humidity 25-75% RH). The on/off life may vary depending on the coil drive circuit, load type, on/off frequency, on/off phase, surrounding atmosphere, etc. Therefore, please confirm on the actual equipment. Especially under the load conditions shown below, attention should be paid.

- 1) In the on/off state of AC load, locking and adhesion caused by contact movement are prone to occur when the on/off phase is synchronized.
- 2) When the load is turned on and off at high frequencies, when the contact is turned on and off, and when an arc occurs at high frequencies, the energy of the arc combines N and O in the air to generate HNO<sub>3</sub>, sometimes causing corrosion of the metal material.

#### 应对策略：

- (1) 加入电弧消弧电路
- (2) 降低通断频率
- (3) 降低周围环境的湿度等是十分有效的

#### Response strategy:

- (1) Add arc extinguishing circuit
- (2) Reduce on/off frequency
- (3) Reducing the humidity of the surrounding environment is very effective

#### 4 使用·保管·运输时的环境 Environment during use, storage, and transportation

- 1) 使用及运输·保管时的周围温度·湿度·气压
  - (1) 温度: -40°C ~ +70°C
  - (2) 湿度: 5 ~ 85%RH (无结冰、结露) 并且, 在不同温度下湿度范围会有所不同, 因此希望在下图所示的范围内进行。
  - (3) 气压: 86 ~ 106kPa
- 2) 关于结露  
在高温多湿的情况下温度急剧变化时等发生。有时也会导致继电器的绝缘情况变坏等而发生, 请注意。
- 3) 关于结冰  
在0°C以下, 结露等的水分会结冰, 从而会导致继电器的可动部分的固定和工作延迟等故障, 请注意。
- 4) 关于低温低湿环境  
长时间处于低温·低湿的环境中时, 塑料可能会脆化, 请注意。

1) Surrounding temperature, humidity, and air pressure during use, transportation, and storage

(1) Temperature: -40 °C~+70 °C

(2) Humidity: 5-85% RH (without icing or condensation), and the humidity range may vary at different temperatures. Therefore, it is hoped to be carried out within the range shown in the following figure.

(3) Air pressure: 86-106kPa

2) About condensationIt occurs

when the temperature changes sharply under high temperature and humidity conditions. Sometimes it can also cause the insulation of the relay to deteriorate, etc. Please be careful.

3) About icing

Below 0 °C, moisture such as condensation will freeze, which can cause faults such as fixing and working delay of the movable part of the relay. Please be aware.

4) About Low Temperature and Low Humidity Environment

When exposed to low temperature and humidity for a long time, plastics may become brittle. Please be aware.

#### 5 二极管特性 Diode characteristics

- 1) 容许反向电压 90V (截止至DC48V型)  
250V (在DC100V型以上)

- 1) Permissible reverse voltage 90V (up to DC48V type)  
250V (above DC100V)

#### 6 关于二极管类型 About diode types

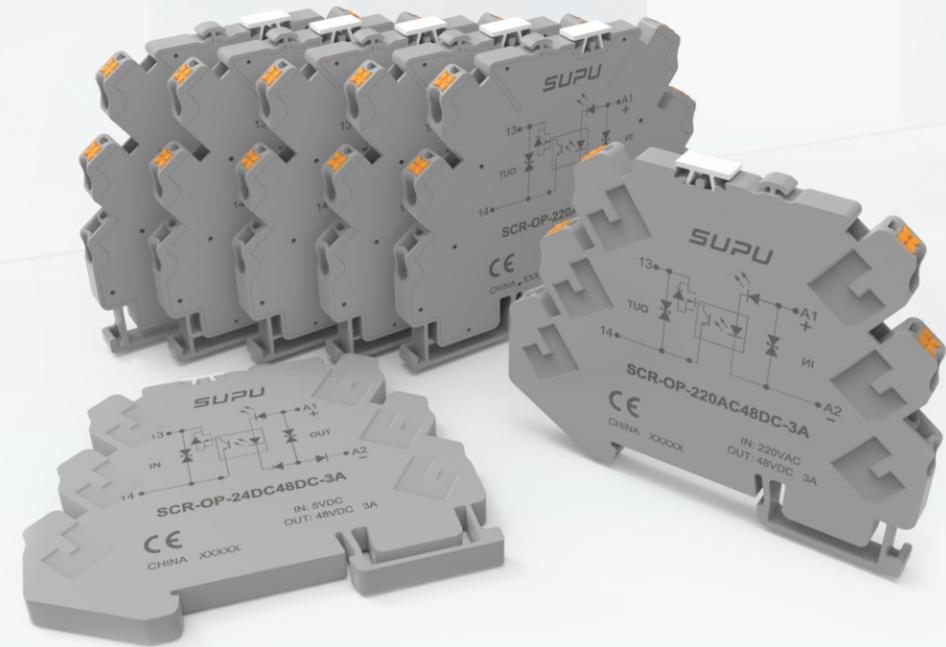
内置在继电器线圈内, 二极管以吸收继电器线圈的反向电压为目的, 当外部给二极管施加了很大的浪涌等时, 有可能会破坏元器件。当外部有可能施加很大的浪涌时, 请实施浪涌吸收对策。

Built into the relay coil, the diode aims to absorb the reverse voltage of the relay coil. When a large surge is applied externally to the diode, it may damage the components. When there is a possibility of significant external surges, please implement surge absorption measures.

## 第五章

### Optocoupler Relay SCR-OP Series

# 光耦/固态继电器SCR-OP系列



速普光耦/固态继电器产品系列, 产品厚度仅为6.2mm, 采用直插式弹簧接线, 支持电流0.1A, 1A, 3A, 可选适配5VDC, 24VDC和230VAC电压。同样提供完善的附件, 可与导轨端子、接口模块等产品组合, 为控制柜提供全面的信号转换与连接方案。

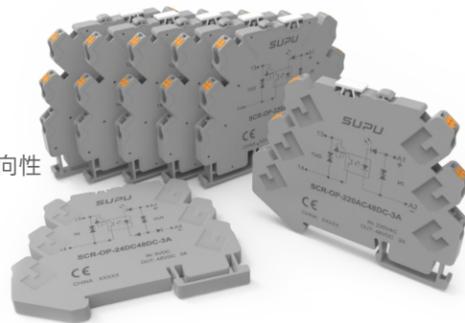
SUPU optocoupler relay, slim design with 6.2mm housing, using push spring connection technology, support 0.1A, 1A, 3A current, and suitable for 5VDC, 24VDC or 230VAC input voltage. SUPU industrial relays provide complete accessories, which can be combined with din-rail terminals, interface modules and other products to provide a comprehensive signal conversion and connection solution for the electrical control cabinet.

#### ● 光耦/固态继电器SCR-OP系列 Optocoupler Relay SCR-OP Series

# 光耦/固态继电器SCR-OP系列

## 产品特点 Product Features

- 6.2mm极致超薄壳体, 节省大量柜内空间  
6.2mm ultra slim housing, save cabinet space
- 2.5平方的直插式弹簧接线技术, 无需接线工具, 节省大量安装时间  
2.5mm<sup>2</sup> Spring connection, no need tools, save installation time
- 提供5Vdc, 24Vdc, 220V ac 输入电压, 和0.1A, 1A, 3A输出选择  
Cover 5Vdc, 24Vdc, 200Vac Voltage input types, and 0.1A, 1A, 3A current output.
- 输出电压宽至48Vdc, 且NPN/PNP兼容, 通常情况下无需考虑接线方向性  
Wide range of output Voltage to 48Vdc, NPN/PNP compatibility, no polarity consideration
- 输入侧内置防反接及防浪涌保护功能, 输出侧同样防浪涌保护  
Anti reverse wiring @ input side, and surge protection @ both side
- 主流为两进两出7个型号, 可定制特殊型号, 如两进三出或高频型号  
Main listings are 2 wire in 2 wire out type with 7 models, it also can be customized with other type like high frequency
- 附件齐全, 与速普的导轨端子系列共用桥接件, 标记牌等附件  
All kinds of accessory support, same marking, bridge with terminal products



## 种类 Category

型号 model	额定控制电压 Rated Voltage	连续电流 Current	最大开关频率 Max. Frequency	电压降 Drop Voltage
SCR-OP-5DC48DC-0.1A	DC5V	100mA	500HZ	<0.1V
SCR-OP-24DC48DC-0.1A	DC24V	100mA	500HZ	<0.1V
SCR-OP-5DC48DC-1A	DC5V	1000mA	500HZ	<0.1V
SCR-OP-24DC48DC-1A	DC24V	1000mA	500HZ	<0.1V
SCR-OP-5DC48DC-3A	DC5V	3000mA	10~200HZ*	≤8V
SCR-OP-24DC48DC-3A	DC24V	3000mA	10~200HZ*	≤8V
SCR-OP-220AC48DC-3A	AC220V	3000mA	10~200HZ*	≤8V

## 额定规格/性能 Product Specification

电气参数 Electric Specs	
额定输入电流 Rated Current	15~50mA
状态指示灯 Status Indicator	翠绿(LED) (Green)
保护电路 Protection	防反接保护、TVS防浪涌保护 Anti reverse wiring,TVS surge protection

Load Side	
额定开关电压 Rated Voltage	5~48VDC
最大开关电压 Max. Voltage	48VDC
负载类型 Load Type	DC
负载保护电路 Load Protection	TVS防浪涌保护

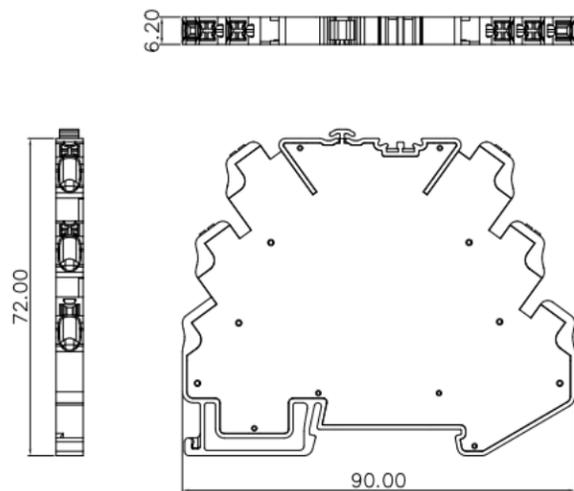
Basci informaiton	
接线类型 Connection Type	NPN / PNP
接线方式 Wiring Type	直插式PT (PT Spring Connection)
适用线径 Wiring Size:	26-12/0.2-2.5mm <sup>2</sup>
冲击耐压 Implus Dielectric	4KV
剥线长度 Striping Length	10mm
厚x宽x高 (mm) W*D*H	6.2x90x72
塑件材料 Housing Resin	PA66
触点材料 Contact Material	磷青铜/C5191
镀层 Plating	锡/Tin
阻燃等级 FR Grade	V0
使用环境温度 Working Temp.	-40°C~+80°C

/ Standard / Cerifications	
符合标准 Standard Follow	EN61947-5-1:2017/AC:2020
产品认证 Certification	

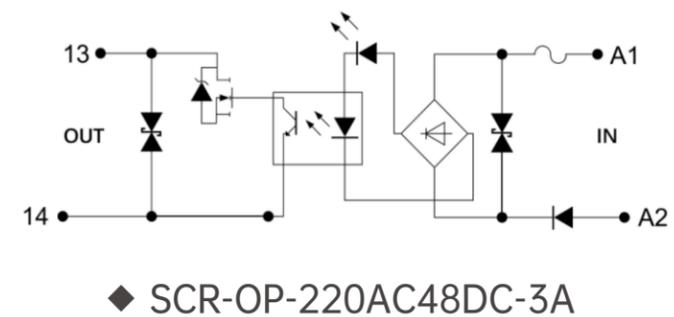
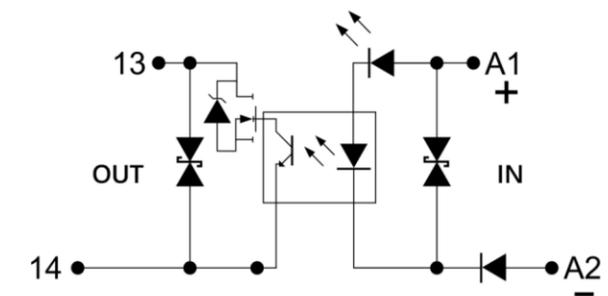
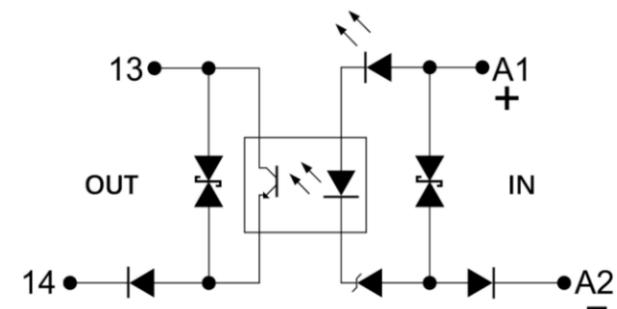
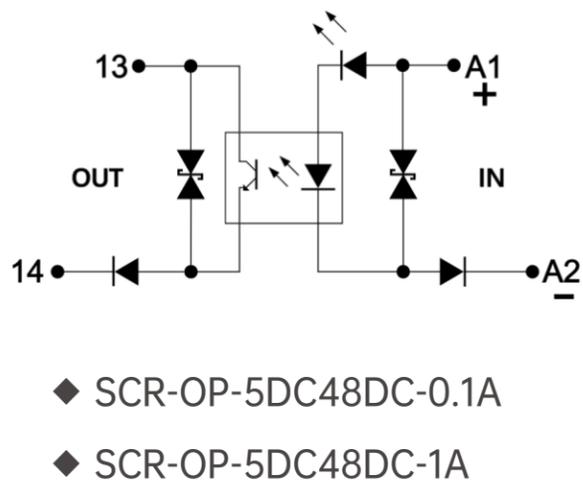
Installation	
安装类型 Type	DIN35mm导轨安装
组装说明 Note	无间距排列 side by side
安装位置 Location	任意 Any

## 外形尺寸 Profile Size

### 继电器外形尺寸 Relay Profile



### 接线图 Wiring Diagram



# 继电器基础知识 Basic knowledge of relays

## 触点参数及选型指南 Contact parameters and selection guide

触点类型 Contact type		
名称 name	符号 symbol	标示 Marking
常开触点 Normally open contact		NO
常闭触点 Normally closed contact		NC
转换触点 Changeover contact		CO

### 触点参数 Contact parameters 接触电阻 contact resistance

指接触的触点间的电阻和触点相连的簧片及引出端和组成电路的导体电阻之和。一般单位是mΩ。触点的电阻取决于触点材料。触点杂质较高的触点电阻会使触点的温度升高,因而会缩短触点工作寿命。

The sum of the resistance between the contact points and the resistance of the springs and leads connected to the contact points, as well as the conductor resistance that makes up the circuit. The general unit is m Ω. The resistance of a contact depends on the contact material. Contact resistance with high impurity content can increase the temperature of the contact, thereby shortening its service life.

### 触点参数 Contact parameters 触点负载 Contact load

指在一定的规定条件下的触点能可靠切换的负载,一般以电压和电流的组合标示。除特殊说明,技术参数中所列的负载一般为纯阻性负载(AC-1,DC-1)。例:样本所示5A250VAC/30VDC指的是在纯阻性负载情况下触点最大额定负载电流为5A,电压不超过250VAC或30VDC。

It refers to the load that can be reliably switched by contacts under certain specified conditions, usually indicated by a combination of voltage and current. Unless otherwise specified, the loads listed in the technical parameters are generally pure resistive loads (AC-1, DC-1). For example, the 5A250VAC/30VDC shown in the sample refers to the maximum rated load current of the contact under pure resistive load conditions, which is 5A and the voltage does not exceed 250VAC or 30VDC.

### 选型指南 Selection Guide 应用说明 Application Description

在一般负载情况下可以选择镀金型产品来降低接触电阻以满足在极小电流情况下的可靠导通。

Under normal load conditions, gold-plated products can be chosen to reduce contact resistance to ensure reliable conduction under extremely low current conditions.

### 选型指南 Selection Guide 负载类型 load type

AC-1:交流阻性负载  
AC-15:电力接触器,电磁阀,螺线管等交流感性负载  
DC-1:直流阻性负载  
DC-13:直流接触器,螺线管等直流感性负载

AC-1: AC resistive load  
AC-15: AC inductive loads such as power contactors, solenoid valves, solenoids, etc  
DC-1: DC resistive load  
DC-13: DC inductive loads such as DC contactors and

### 触点参数 Contact parameters 触点材料 contact material

**银镍合金 AgNi**

材料特性 Material characteristics

- 电弧转移特性好、接触电阻低
- 中小电流下良好的抗熔焊性
- 直流负载下抗材料转移能力强
- 添加少量添加剂可使抗熔焊性得到明显提升

-Good arc transfer characteristics and low contact resistance  
-Good resistance to welding under small and medium currents  
-Strong resistance to material transfer under DC load  
-Adding a small amount of additives can significantly improve the welding resistance

**银氧化锡 AgSnO<sub>2</sub>**

材料特性 Material characteristics

- 大电流下良好的抗熔焊性
- 直流负载下抗材料转移能力强
- 替代有毒银氧化镉的理想低压触头环保材料

-Good resistance to welding under high current  
-Strong resistance to material transfer under DC load  
-An Ideal Low Voltage Contact Environmental Protection Material to Replace Toxic Silver Cadmium Oxide

**银镍合金+硬镀金 AgNi+Au**

材料特性 Material characteristics

- 极低的最小导通电流
- 表面不易形成氧化膜,在恶劣环境下仍能保持高可靠性
- 电弧会破坏镀金层,使镀金失去意义

-Extremely low minimum conducting current  
-The surface is not easy to form an oxide film and can maintain high reliability in harsh environments  
-Electric arcs can damage the gold plating layer, rendering the plating meaningless

### 选型指南 Selection Guide 适合应用 Suitable for application

常规应用,适用于中小负载 AgNi

Conventional applications, Suitable for small and medium-sized loads of AgNi

参数范围 Parameter range

额定电流小于16A  
冲击电流小于30A

Rated current less than 16A  
Impulse current less than 30A

灯负载,感性负载和部分容性负载

Lamp load, Inductive load and partial capacitive load

很高冲击电流,最大120A

Very high impulse current, Maximum 120A

控制负载,传感器负载

Control load, Sensor load

最小导通电流小于10mA

Minimum conduction current Less than 10mA

## 线圈参数及附件保护电路选型指南

### Selection guide for coil parameters and accessory protection circuits

### 线圈参数 Coil parameters 线圈电阻及阻性特性 Coil resistance and resistance characteristics

线圈的电阻可以用电阻表测量,阻值是在标准规定23°C测得,误差范围为±10%。对于交流线圈而言,由于感抗,线圈电阻和阻抗是完全不一致的。

The resistance of the coil can be measured using an ohmmeter, and the resistance value is measured at the standard specified 23 ° C, with an error range of ± 10%. For AC coils, due to inductance, the coil resistance and impedance are completely inconsistent.

### 选型指南 Selection Guide 解决方案 Solution

可选用辅助模块来进行保护。(可参考样本中辅助模块相关内容)

Auxiliary modules can be selected for protection. (Please refer to the content related to auxiliary modules in the sample)

线圈参数 Coil parameters
最小工作电压(吸合电压) Minimum working voltage (suction voltage)

最小工作电压是继电器可以安全吸合的电压。使继电器的触点转换并保持在应有的位置。

The minimum operating voltage is the voltage at which the relay can be safely engaged. Switch and maintain the contacts of the relay in their proper positions.

线圈参数 Coil parameters
最大脱扣电压(释放电压) Maximum tripping voltage (release voltage)

释放电压是指继电器去除励磁时,使继电器触点转换并保持在应有的位置,并不存在任何震动。

Release voltage refers to the process of removing excitation from a relay, causing the relay contacts to switch and remain in their proper position without any vibration.

保护电路			
元器件 component	保护类型 Protection type	适用线圈 Applicable coils	响应时间 response time
续流二极管 The freewheeling diode	线圈反向感应电压抑制 Coil reverse induction voltage suppression	DC	4-10倍 释放时间 4-10 times Release time
电阻+电容 Resistance+capacitance	外部浪涌抑制 External surge suppression	AC	2倍释放时间 2x release time
压敏电阻 varistors	外部浪涌抑制 External surge suppression	AC/DC	1.5倍释放时间 1.5 times release time
双向稳压二极管 Bidirectional voltage regulator diode	外部浪涌抑制 External surge suppression	AC/DC	3倍释放时间 3x release time

选型指南 Selection Guide
吸合电压 pull-in voltage

直流继电器 80%Un 保证吸合  
交流继电器 80%Un 保证吸合  
具体的吸合电压,根据继电器不同,详见样本

DC relay 80% Un ensures suction  
AC relay 80% Un ensures suction  
The specific suction voltage varies depending on the relay, please refer to the sample for details

选型指南 Selection Guide
释放电压 release voltage

直流继电器 10%Un 保证释放  
交流继电器 15%Un 保证释放  
具体的释放电压,根据继电器不同,详见样本

DC relay 10% Un guaranteed release  
AC relay 15% Un guaranteed release  
The specific release voltage depends on the relay, please refer to the sample for details

选型指南	
适用场合 application	参数范围 Parameter range
保护外部元器件,如 PLC为晶体管输出时,注意 PLC为继电器输出时无需增加此元件 Protect external components, such as when the PLC is a transistor output, note that when the PLC is a relay output, there is	不抑制外部浪涌 External surge suppression
低通滤波,主要过滤的是外部高频交流浪涌 Low pass filtering mainly filters external high-frequency AC surges	抑制至不超过3倍额定电压 Suppress to no more than 3 times the rated voltage
最大限度抑制瞬时的高电压脉冲式的浪涌冲击 Minimize the suppression of instantaneous high voltage pulse surge impacts to the maximum extent possible	抑制至不超过2倍额定电压 Suppress to no more than twice the rated voltage
抑制各种高于额定电压的浪涌电压冲击 Suppress various surge voltage surges above rated voltage	抑制至不超过2倍额定电压 Suppress to no more than twice the rated voltage

## 固态继电器基础知识

Basic knowledge of solid-state relays

### ▶ 什么是固态继电器 What is a solid-state relay

固态继电器(Solid State Relay)简称 SSR。它是用半导体元件代替传统的机械式触点作为切换装置的具有继电器特性的无触点开关器件。

Solid State Relay, abbreviated as SSR. It is a contactless switching device with relay characteristics that uses semiconductor components instead of traditional mechanical contacts as switching devices.

### ▶ 固态继电器的优点 The advantages of solid-state relays

**寿命长:**固态继电器和接触器没有机械运动部件,在输出触点部分不存在机械磨损,适合各种应用场合

**运行安静:**固态开关的解决方案使触点改变状态时无噪音。在商业和医疗应用中十分适用

**电噪声最低:**过零启动和零电流关断使固态继电器产生最低的电气干扰

**功耗低:**固态继电器和接触器需要功率较小的线圈电流来切换功率较大的负载

**开关速度快:**随机启动式固态继电器可在不到100us 内对信号做出反应

**抗电磁噪声:**磁场对于固态继电器的影响较小,没有使用电磁线圈驱动负载

**能效成本低:**节能是通过负载的开关来实现,利用自动化技术来确保能效最大化

**Long lifespan:** Solid state relays and contactors do not have mechanical moving parts, and there is no mechanical wear on the output contacts, making them suitable for various application scenarios

**Quiet operation:** The solution for solid-state switches ensures no noise when the contacts change state. Highly applicable in commercial and medical applications

**Minimum electrical noise:** Zero crossing start and zero current shutdown cause minimal electrical interference in solid-state relays

**Low power consumption:** Solid state relays and contactors require lower coil currents to switch between higher power loads

**Fast switching speed:** Random start solid-state relays can respond to signals within less than 100us

**Anti electromagnetic noise:** The influence of magnetic field on solid-state relays is relatively small, and electromagnetic coils are not used to drive the load

**Low energy efficiency and cost:** Energy conservation is achieved through the switching of loads, utilizing automation technology to ensure maximum energy efficiency

### ▶ 固态继电器的应用 Application of solid-state relays

**运动控制:**包括输送系统,风扇,电磁阀,控制阀,电梯,升降机,起重机等

**加热控制:**包括食品设备,塑料管成型/基础机械,采暖空调和焊接设备等

**电源控制:**包括电源,变压器,逆变器,UPS系统

**照明控制:**这些应用可以分为三个类别,剧场,仓库和商场,这些行业使用的很多产品都是定制的

**Motion control:** including conveying systems, fans, solenoid valves, control valves, elevators, elevators, cranes, etc

**Heating control:** including food equipment, plastic pipe forming/basic machinery, heating and air conditioning, and welding equipment, etc

**Power control:** including power supply, transformer, inverter, UPS system

**Lighting control:** These applications can be divided into three categories: theaters, warehouses, and shopping malls, many of which use customized products