

SOLID STATE RELAY/固态继电器



SPECIFICATION



直流控制 . 交流输出 /DC Input . AC Output

SRE 系列产品已获得德国莱茵颁发的CE认证/SRE series products have obtained from

Output Specifications/输出规格

Model/型号	SRE-1G10DA	SRE-	SRE-	SRE-
Operating Current / 负载电流(Arms)	10A	40A	65A	100A
Model/型号	SRE-1G25DA	SRE-	SRE-	SRE-
Operating Current / 负载电流(Arms)	25A	50A	80A	120A
Operating Voltage/负载电压 (Vrms)	48 to 660	48 to 660	48 to 660	48 to 660
Repetitive peak off-state voltage / 瞬时过电压(Vpk)	1600	1600	1600	1600
Surge peak on-state current / 最大浪涌电流	600	850	1350	1950
Peak on-state voltage / 额定电流时开启状态压降(Vpk)	<1.8v	<1.8v	<1.8v	<1.8v
Thermal resistance(Rjc)/管芯-基板热阻(C/W)	0.35	0.2	0.13	0.13
IPt Value for fusing / 熔断用最大@10ms(A²S)	1600	3250	12000	18000
Off-state Leakage current / 断开状态漏电流(mA)	<1	<1	<1	<1
Critical rate of rise of voltage / 临界电压上升率dv/dt	≥1000	≥1000	≥1000	≥1000
Maximum Turn-On Time / 最大开启延时	1/2 period	1/2 period	1/2 period	1/2 period
Maximum Turn-Off Time / 最大关闭延时	1/2 period	1/2 period	1/2 period	1/2 period

Input Specifications/输入规格

Input Voltage / 控制电压	4 to 32Vdc
Pick-up Voltage / 导通电压	24Vdc
Drop-out Voltage / 关断电压	≤1Vdc
Input Current / 输入电流	12mA@12Vdc

General Specifications/通用规格

Dielectric Strength/介电强度	2500Vrms
Insulation Resistance / 绝缘强度	50MQ @500Vdg
Operating Temperature / 工作温度	-30 to 80°C
Storage Temperature / 存储温度	-40 to 125°C
Weight (typical) / 重量 (典型)	3.5 oz (100g)

直流控制 . 交流输出 /DC Input . AC Output

SRE/J 系列产品已获得德国莱茵颁发的CE认证/SRE/J series products have obtained from



Output Specifications/输出规格

Model/型号	SRE-	SRE-	SRE-	SRE-
Operating Current / 负载电流(Arms)	10A	40A	65A	100A
Model/型号	SRE-	SRE-	SRE-	SRE-
Operating Current / 负载电流(Arms)	25A	50A	80A	120A
Operating Voltage/负载电压 (Vrms)	48 to 660	48 to 660	48 to 660	48 to 660

Repetitive peak off-state voltage /瞬时过电压(Vpk)	1600	1600	1600	1600
Surge peak on-state current / 最大浪涌电流	600	850	1350	1950
Peak on-state voltage /额定电流时开启状态压降(Vpk)	<1.8v	<1.8v	<1.8v	<1.8v
Thermal resistance(Rjc)/管芯-基板热阻(C/W)	0.35	0.2	0.13	0.13
IPt Value for fusing / 熔断用最大@10ms(A²S)	1600	3250	12000	18000
Off-state Leakage current /断开状态漏电流(mA)	<1	<1	<1	<1
Critical rate of rise of voltage / 临界电压上升率dv/dt	≥1000	≥1000	≥1000	≥1000
Maximum Turn-On Time /最大开启延时	1/2 period	1/2 period	1/2 period	1/2 period
Maximum Turn-Off Time /最大关闭延时	1/2 period	1/2 period	1/2 period	1/2 period

Input Specifications/输入规格

Input Voltage /控制电压	4 to 32Vdc
Pick-up Voltage /导通电压	24Vdc
Drop-out Voltage /关断电压	s1Vdc
Input Current /输入电流	12mA@12Vdc

General Specifications/通用规格

Dielectric Strength/介电强度	2500Vrms
Insulation Resistance /绝缘强度	50MQ @500Vdg
Operating Temperature /工作温度	-30 to 80°C
Storage Temperature /存储温度	-40 to 125°C
Weight (typical) / 重量（典型）	3.5 oz (100g)

直流控制 . 交流输出 /DC Input . AC Output

SR 系列产品已获得德国莱茵颁发的CE认证/SR series products have obtained from 

Output Specifications/输出规格

Model/型号	SR-1G10DA	SR-1G25DA	SR-1G40DA	
Operating Current /负载电流(Arms)	10A	25A	40A	
Operating Voltage/负载压力 (Vrms)	48 to 480	48 to 480	48 to 480	
Repetitive peak off-state voltage /瞬时过电压(Vpk)	1200	1200	1200	
Surge peak on-state current / 最大浪涌电流	100	250	400	
Peak on-state voltage /额定电流时开启状态压降(Vpk)	<1.5v	<1.5v	<1.5v	
Thermal resistance(Rjc)/管芯-基板热阻(C/W)	0.8	0.8	0.8	
IPt Value for fusing / 熔断用最大@10ms(A²S)	140	340	880	
Off-state Leakage current /断开状态漏电流(mA)	<1	<1	<1	
Critical rate of rise of voltage / 临界电压上升率dv/dt	≥1000	≥1000	≥1000	
Maximum Turn-On Time /最大开启延时	1/2 period	1/2 period	1/2 period	
Maximum Turn-Off Time /最大关闭延时	1/2 period	1/2 period	1/2 period	

Input Specifications/输入规格

Input Voltage /控制电压	4 to 32Vdc
Pick-up Voltage /导通电压	24Vdc
Drop-out Voltage /关断电压	s1Vdc
Input Current /输入电流	7.5mA@12Vdc

General Specifications/通用规格

Dielectric Strength/介电强度	2500Vrms
Insulation Resistance /绝缘强度	50MQ @500Vdg
Operating Temperature /工作温度	20 to 80°C
Storage Temperature /存储温度	-40 to 125°C
Weight (typical) / 重量（典型）	3.5 oz (100g)

Output Specifications/输出规格

Model/型号	SR-1G10AA	SR-1G25AA	SR-1G40AA	
Operating Current /负载电流(Arms)	10A	25A	40A	
Operating Voltage/负载压力 (Vrms)	48 to 480	48 to 480	48 to 480	

Repetitive peak off-state voltage / 瞬时过电压(Vpk)	1200	1200	1200	
Surge peak on-state current / 最大浪涌电流	100	250	400	
Peak on-state voltage / 额定电流时开启状态压降(Vpk)	<1.5v	<1.5v	<1.5v	
Thermal resistance(Rjc)/管芯-基板热阻(C/W)	0.8	0.8	0.8	
IPt Value for fusing / 熔断用最大@10ms(A²S)	140	340	880	
Off-state Leakage current / 断开状态漏电流(mA)	<1	<1	<1	
Critical rate of rise of voltage / 临界电压上升率dv/dt	≥1000	≥1000	≥1000	
Maximum Turn-On Time / 最大开启延时	1/2 period	1/2 period	1/2 period	
Maximum Turn-Off Time / 最大关闭延时	1/2 period	1/2 period	1/2 period	

Input Specifications/输入规格

Input Voltage / 控制电压	80 to 250VAC 50/60Hz
Pick-up Voltage / 导通电压	≥45V
Drop-out Voltage / 关断电压	≤35V
Input Current / 输入电流	5mA@110VAC

General Specifications/通用规格

Dielectric Strength/介电强度	2500Vrms
Insulation Resistance / 绝缘强度	50MQ @500Vdg
Operating Temperature / 工作温度	-30 to 80°C
Storage Temperature / 存储温度	-40 to 125°C
Weight (typical) / 重量 (典型)	3.5 oz (100g)

SOLID STATE ADJUSTER/固态调压器

电位器控制 . 交流输出 / Variable Resistor . AC Output

SR 系列产品已获得德国莱茵颁发的CE认证/SR series products have obtained from 

Output Specifications/输出规格

Model/型号	SR-1G10SA	SR-1G25SA	SR-1G40SA	
Operating Current / 负载电流(Arms)	10A	25A	40A	
Operating Voltage/负载压力 (Vrms)	48 to 480	48 to 480	48 to 480	
Repetitive peak off-state voltage / 瞬时过电压(Vpk)	1200	1200	1200	
Surge peak on-state current / 最大浪涌电流	100	250	400	
Peak on-state voltage / 额定电流时开启状态压降(Vpk)	<1.5v	<1.5v	<1.5v	
Thermal resistance(Rjc)/管芯-基板热阻(C/W)	0.8	0.8	0.8	
IPt Value for fusing / 熔断用最大@10ms(A²S)	140	340	880	
Off-state Leakage current / 断开状态漏电流(mA)	<1	<1	<1	
Critical rate of rise of voltage / 临界电压上升率dv/dt	≥1000	≥1000	≥1000	
Maximum Turn-On Time / 最大开启延时	1/2 period	1/2 period	1/2 period	
Maximum Turn-Off Time / 最大关闭延时	1/2 period	1/2 period	1/2 period	

Input Specifications/输入规格

Input Resistance / 输入电阻	50kΩ@110VAC ; 500kΩ@220VAC ; 1MΩ@380VAC ;
Wattage of VR / VR功率	2W min
Control method / 控制方式	phase control

General Specifications/通用规格

Dielectric Strength/介电强度	2500Vrms
Insulation Resistance / 绝缘强度	50MQ @500Vdg
Operating Temperature / 工作温度	-30 to 80°C
Storage Temperature / 存储温度	-40 to 125°C
Weight (typical) / 重量 (典型)	3.5 oz (100g)

模拟量控制 . 交流输出/ 4~20mA Input .AC Output

SR 系列产品已获得德国莱茵颁发的CE认证/SR series products have obtained from 

Output Specifications/输出规格

Model/型号	SR-1G10LA	SR-1G25LA	SR-1G40LA	
Operating Current /负载电流(Arms)	10A	25A	40A	
Operating Voltage/负载压力（Vrms）	48 to 480	48 to480	48 to 480	
Repetitive peak off-state voltage /瞬时过电压(Vpk)	1200	1200	1200	
Surge peak on-state current / 最大浪涌电流	100	250	400	
Peak on-state voltage /额定电流时开启状态压降(Vpk)	<1.5v	<1.5v	<1.5v	
Thermal resistance(Rjc)/管芯-基板热阻(C/W)	0.8	0.8	0.8	
IPt Value for fusing / 熔断用最大@10ms(A²S)	140	340	880	
Off-state Leakage current /断开状态漏电流(mA)	<1	<1	<1	
Critical rate of rise of voltage / 临界电压上升率dv/dt	≥1000	≥1000	≥1000	
Maximum Turn-On Time /最大开启延时	1/2 period	1/2 period	1/2 period	
Maximum Turn-Off Time /最大关闭延时	1/2 period	1/2 period	1/2 period	
Input Specifications/输入规格				
Input Current / 控制电流	4 to 20mA			
Input Resistance / 输入电阻	Approx.1.2kΩ			
Control method / 控制方式	phase control			
General Specifications/通用规格				
Dielectric Strength/介电强度	2500Vrms			
Insulation Resistance /绝缘强度	50MQ @500Vdg			
Operating Temperature /工作温度	-30 to 80°C			
Storage Temperature /存储温度	-40 to 125°C			
Weight (typical) / 重量（典型）	3.5 oz (100g)			

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3PHASE SOLID STATE RELAY/三相固态继电器



SPECIFICATION

SRE-3G series 3-phase solid state relay is designed for high current application, such as heating motor driver etc. The maximum current is up to 120Amps. SRE-3G series products have obtained CE certification from TÜV Rheinland. SRE-3G 系列产品已获得德国莱茵颁发的CE认证。SRE-3G系列三相固态继电器用于电加热/电机驱动等大电流应用。最大负载可达120安培。

Output Specifications/输出规格

Model/型号	SRE-3G10DA	SRE-3G40DA	SRE-3G65DA	SRE-3G100DA
Operating Current / 负载电流(Arms)	10A	40A	65A	100A
Model/型号	SRE-3G25DA	SRE-	SRE-	SRE-
Operating Current / 负载电流(Arms)	25A	50A	80A	120A
Operating Voltage/负载电压 (Vrms)	48 to 660	48 to 660	48 to 660	48 to 660
Repetitive peak off-state voltage / 瞬时过电压(Vpk)	1600	1600	1600	1600
Surge peak on-state current / 最大浪涌电流	600	850	1350	1950
Peak on-state voltage / 额定电流时开启状态压降(Vpk)	<1.8v	<1.8v	<1.8v	<1.8v
Thermal resistance(Rjc)/管芯-基板热阻(C/W)	0.35	0.2	0.13	0.13
IPt Value for fusing / 熔断用最大@10ms(A²S)	1600	3250	12000	18000
Off-state Leakage current / 断开状态漏电流(mA)	<1	<1	<1	<1
Critical rate of rise of voltage / 临界电压上升率dv/dt	≥1000	≥1000	≥1000	≥1000
Maximum Turn-On Time / 最大开启延时	1/2 period	1/2 period	1/2 period	1/2 period
Maximum Turn-Off Time / 最大关闭延时	1/2 period	1/2 period	1/2 period	1/2 period

Input Specifications/输入规格

Input Voltage / 控制电压	4 to 32Vdc
Must Turn-On Voltage / 开启控制电压	>2.5Vdc
Must Turn-Off Voltage / 关闭控制电压	<1Vdc

General Specifications/通用规格

Dielectric Strength/介电强度	2500Vrms
Insulation Resistance/绝缘强度	50MQ @500Vdg
Operating Temperature / 工作温度	-30 to 80°C
Storage Temperature / 存储温度	-40 to 125°C
Weight (typical) / 重量 (典型)	8.5 oz (243g)

3PHASE REVERSIBLE SOLID STATE RELAY/三相正反转固态继电器

SRE-3R series products have obtained CE certification from TÜV Rheinland. SRE-3R 系列产品已获得德国莱茵颁发的CE认证。

Output Specifications/输出规格

Model/型号	SRE-3R10DA	SRE-	SRE-	SRE-
Operating Current / 负载电流(Arms)	10A	40A	65A	100A
Model /型号	SRE-3R25DA	SRE-	SRE-	SRE-
Operating Current /负载电流(Arms)	25A	50A	80A	120A
Operating Voltage/负载压力（Vrms）	48 to 660	48 to 660	48 to 660	48 to 660
Repetitive peak off-state voltage /瞬时过电压(Vpk)	1600	1600	1600	1600
Surge peak on-state current / 最大浪涌电流	600	850	1350	1950
Peak on-state voltage /额定电流时开启状态压降(Vpk)	<1.8v	<1.8v	<1.8v	<1.8v
Thermal resistance(Rjc)/管芯-基板热阻(C/W)	0.35	0.2	0.13	0.13
IPt Value for fusing / 熔断用最大@10ms(A²S)	1600	3250	12000	18000
Off-state Leakage current /断开状态漏电流(mA)	<1	<1	<1	<1
Critical rate of rise of voltage / 临界电压上升率dv/dt	≥1000	≥1000	≥1000	≥1000
Maximum Turn-On Time /最大开启延时	1/2 period	1/2 period	1/2 period	1/2 period
Maximum Turn-Off Time /最大关闭延时	1/2 period	1/2 period	1/2 period	1/2 period
Input Specifications/输入规格				
Input Voltage /控制电压	4 to 32Vdc			
Must Turn-On Voltage / 开启控制电压	>2.5Vdc			
Must Turn-Off Voltage / 关闭控制电压	<1Vdc			
General Specifications/通用规格				
Dielectric Strength/介电强度	2500Vrms			
Insulation Resistance /绝缘强度	50MQ @500Vdg			
Operating Temperature /工作温度	-30 to 80℃			
Storage Temperature /存储温度	-40 to 125℃			
Weight (typical) / 重量（典型）	8.5 oz (243g)			

MULTI-CHANNEL SOLID STATE RELAY/多通道固态继电器



DESCRIPTION

GCM series is applied by PLC or controller to switch the High-current Device. And with excellent isolate protection, the module can prevent PLC and controller is damaged by electronic interference.

	Total CH. 总通道	NO CH. 常开通道	NC CH. 常闭通道	Input type 输入类型	Output type 输出类型	DC load 直流负载	frequency 开关频率
GCM-5A5N	5	5		NPN/PNP	NPN	5A@24VDC	100Hz
GCM-5A10N	5	5		NPN/PNP	NPN	5A@24VDC	100Hz
GCM-5A10N32	5	3	2	NPN/PNP	NPN	5A@24VDC	100Hz
GCM-8A10N	8	8		NPN/PNP	NPN	5A@24VDC	100Hz
GCM-8A10N44	8	4	4	NPN/PNP	NPN	5A@24VDC	100Hz
GCM-10A5R	10	10		NPN/PNP	Relay	1A@24VDC 1A@220AC	20times/min

SPECIFICATION

Output Specifications / 输出规格	
Nominal switching capacity (resistive load) / 额定开关能力	5A 24VDC@25 °C
Max. Switching Voltage / 最大开关电压	30VDC
Max. Continuous Current / 最大持续电流	5A
Pulsed Current / 瞬时电流	40A
Forward Voltage Drop / 输出电压降	≤40mV@1A; ≤200mV@5A
Maximum Off-State Leakage Current / 最大漏电流	≤0.1mA

Maximum Off-State Leakage Current / 最大漏电流	≤0.1mA
Input Specifications / 输入规格	
Nominal Voltage / 额定电压 (at 20℃)	12~24VDC
Nominal Operating Current / 额定电流 (at 20℃)	6mA
Min. Nominal Voltage / 最小额定电压 (at 20℃)	11VDC
Input Type / 输入类型	NPN or PNP
Electrical Characteristics / 电气特性	
Isolation Voltage / 隔离电压	3750Vrms@AC, 1min., R.Hs60% 10000Vrms@AC, 1sec, in oil
Switch frequency / 开关频率	100Hz
Status Indicating Display / 状态指示	Green LED
Conditions / 使用环境	
Operating Temperature / 工作温度	-20℃ to 80℃
Storage Temperature / 存储温度	-40℃ to 100℃

TPR SERIES PHASE PROTECT RELAY/TPR 系列相序保护继电器



DESCRIPTION

avoid some special electromechanical equipment accident or equipment damage caused by reversed Phase sequence protection relay can automaticallty disinguish the phase sequence protection relay, phase sequence of power supply. Mostly used in elevators, central air conditioning equipment.

PRODUCT SELECTION



相序保护继电器 TPR-4R11

■ 电源类型：三相四线星形连接

— 额定电压：12~24VDC 额定电流：6mA 最小额定电压：11VDC 输入类型：NPN or PNP



- 实时监测电源相序及相平衡状态
- 任意相不平衡超过40%输出报警信号
- LED指示故障原因，提高检修效率



相序保护继电器 TPR-18F81-R2

- 电源类型：三相三角形连接
- 实时监测电源相序及相平衡状态
- 任意相不平衡超过40%输出报警信号
- LED指示故障原因，提高检修效率