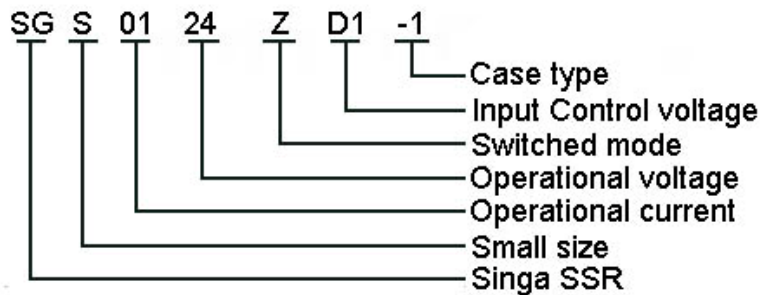


Series SGS Solid State Relays are small size AC relays. Compact package for high density PC board mounting.

- ▲ Operational current 1 to 5 Amps.
- ▲ Operational voltage 240V or 440V
- ▲ Input Control voltage 4 to 16Vdc or 3 to 32Vdc
- ▲ Dielectric strength (Input/Output) 2500Vrms

ORDERING KEY



TYPE SELECTION

Mounting type	S: AC PCB mounting
Operational current	01: 1Amp, 02: 2Amp, 03: 3Amp, 05: 5Amp
Operational voltage	24: 240V_{AC}, 44: 440V_{AC}
Switched mode	Z: Zero Voltage, R: Random Switching.
Input Control voltage	D1: DC 4 to 16V, D3: DC 3 to 32V.
Case type	Blank: Case A, -1 Case B, -2 Case C, -3

SELECTION GUIDE

Operational voltage	Control voltage	Rated operational current			
		1 Amp	2 Amp	3 Amp	5 Amp
240 Vac	4 to 16 Vdc	SGS0124ZD1	SGS0224ZD1	SGS0324ZD1	SGS0524ZD1
	3 to 32 Vdc	SGS0124ZD3	SGS0224ZD3	SGS0324ZD3	SGS0524ZD3
440 Vac	4 to 16 Vdc	SGS0144ZD1	SGS0244ZD1	SGS0344ZD1	SGS0544ZD1
	3 to 32 Vdc	SGS0144ZD3	SGS0244ZD3	SGS0344ZD3	SGS0544ZD3



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SPECIFICATIONS

PARAMETER-LIST	Units	Specification Limits			
		1A	2A	3A	5A
Model No. SGS					
INPUT PARAMETER ① D1					
Control Voltage Range	Vdc			4 to 16	
Input Current (Max.) @=5V/12V	mAdc			10/20	
Must Turn On Voltage	Vdc			4	
Must Turn Off Voltage	Vdc			1	
Reverse Voltage (Max.)	Vdc			32	
INPUT PARAMETER ② D3					
Control Voltage Range	Vdc			3 to 32	
Input Current (Max.) @=5V/24V	mAdc			13/16	
Must Turn On Voltage	Vdc			3	
Must Turn Off Voltage	Vdc			1	
Reverse Voltage (Max.)	Vdc			32	
OUTPUT PARAMETER ③					
Max. Load Current	Arms	1	2	3	5
Surge Current, 20 mSec(Max.)	Arms	30	46	60	80
Load Voltage Range (240V)	Vrms			24 to 280	
VDRM/VRRM (240V)	Vpk			≥600	
Load Voltage Range (440V)	Vrms			44 to 440	
VDRM/VRRM (440V)	Vpk			≥800	
Frequency Range	Hz			47 to 63	
Min. Off-state dv/dt	V/μsec	50	50	75	75
Max.Off-State Leakage Current	mArms			≤5	
On-State Voltage Drop (Max.)	Vrms			1.2	
Turn On Time (Max.)	Cycle			1/2	
Turn Off Time (Max.)	Cycle			1/2	
COUPLING PARAMETER ④					
Dielectric strength (Input/Output)	Vrms			2500	
Capacitance	pf			8	
GENERAL SPECIFICATIONS ⑤					
Ambient Operating Temperature Range				-30 to +80 °C	
Ambient Storage Temperature Range				-30 to +80 °C	
Weight: (typical)	Case A: 15g, Case B: 29g, Case C: 37g				



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Case A: LxWxH 31x16x15mm
Operational current 1-2A



Case B: LxWxH 43x15x30 mm
Operational current 3A



Case C: LxWxH 43x12x35 mm
Operational current 5A



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