

SGF SERIES

ORDER CODE

SGF-1A-12

COIL VOLTAGE

6: DC 6V
9: DC 9V
12: DC 12V
24: DC 24V
48: DC 48V

1A: 1a

TYPE



Main Features:

- Compact high capacity relay for inductive load, rushing current of 70A and steady safe current of 20A
- Application: Air Conditioner, Compressor, Heater, Instruments, OA Equipment Lamp and Motor Control, etc.
- UL & TUV safety approval.

COIL RATING (at 20°C)

NOMINAL VOLTAGE (VDC)	COIL RESISTANCE (Ω)($\pm 10\%$)	POWER CONSUMPT -ION(W)	NOMINAL CURRENT (mA)($\pm 10\%$)	PULL IN VOLTAGE (VDC)	DROP OUT VOLTAGE (VDC)	MAX. ALLOWABLE VOLTAGE (VDC)
6V	40 Ω	0.9W	150.0mA	4.5V	0.2V	7.8V
9V	90 Ω		100.0mA	6.7V	0.5V	11.7V
12V	160 Ω		75.0mA	9.0V	0.6V	15.6V
24V	640 Ω		37.5mA	18.0V	1.2V	31.2V
48V	2560 Ω		18.8mA	36.0V	2.4V	62.4V

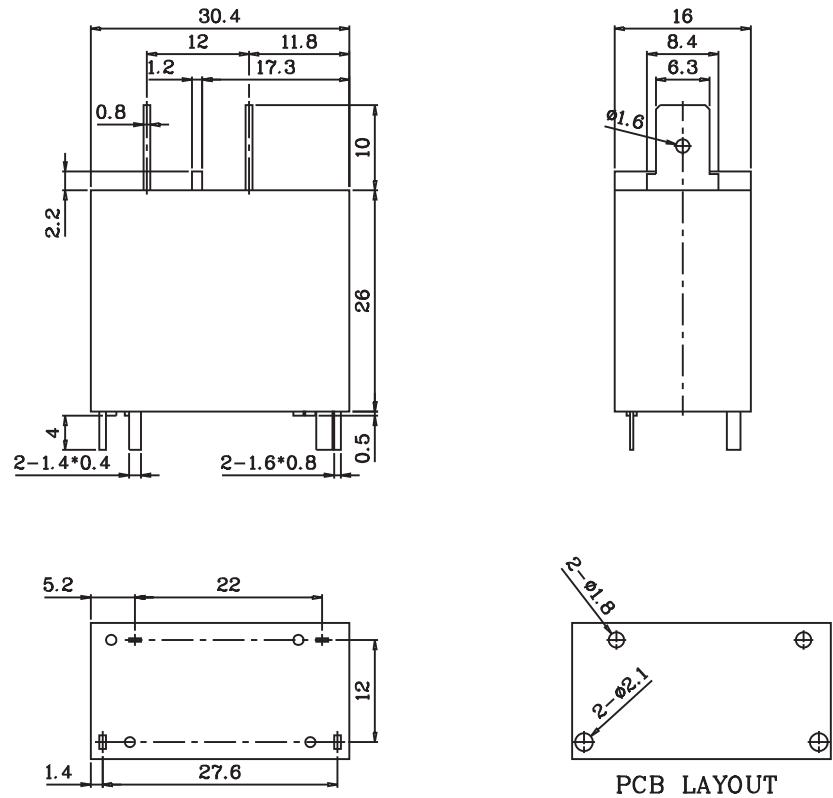
PERFORMANCE (at initial value)

Item	Type	1A
Contact Resistance		50m Ω Max. (initial value)
Operate Time		20msec Max.
Release Time		10msec Max.
Dielectric Strength between coil & contact between contact		AC2000V (1min) AC1000V (1min)
Insulation Resistance		1000M Ω Min.(DC500V)
Operating Ambient Temperature		-30°C ~ +55°C
Humidity		20 to 85% RH
Vibration Resistance		10G (10~55Hz)(Dual amplitude:1.5mm)
Shock Resistance		10G
Life Expectancy Mechanically Electrically		10,000,000 ops. Min.(1800 ops./h) 100,000 ops. Min.(1200 ops./h)
Weight		28g

CONTACT RATING

Item \ Type	1A
Rated Carrying Current	(Resistive) AC250V 25A
	AC277V 20A
	(Inductive) $\cos\phi=0.4$ AC250V 20A
Max. Allowable Current	25A (rushing current: 70A)
Max. Allowable Voltage	AC300V
Max. Current (continual)	20A
Max. Allowable Power	6380VA
Contact Material	Ag alloy

DIMENSIONS(Unit: mm)



WIRING DIAGRAMS(Bottom View)

