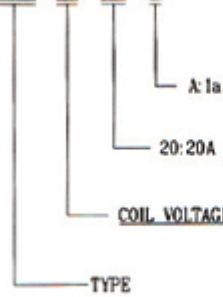


# SG4 SERIES

## ORDER CODE

SG4-12-20-A



### Main Features:

- 1 form A (SPST) contact.
- Heavy-duty 20amps miniature high power relay.
- Surge strength 4,500 VAC.
- PCB terminal and quick connect terminal.

## COIL RATING (at 20°C)

Nominal Voltage (VDC)	Coil resistance (Ω) (+-10%)	Power Consumpt -10 N (W)	Nominal Current (mA)(+-10%)	Pull In Voltage (VDC)	Drop Out Voltage (VDC)	Max Allowable Voltage (VDC)
5V	27.7Ω	0.9W	180.5mA	70% Max.	10% Min.	110%
6V	40.0Ω		150.0mA			
9V	90.0Ω		100.0mA			
12V	160.0Ω		75.0mA			
18V	360.0Ω		50.0mA			
24V	640.0Ω		37.5mA			

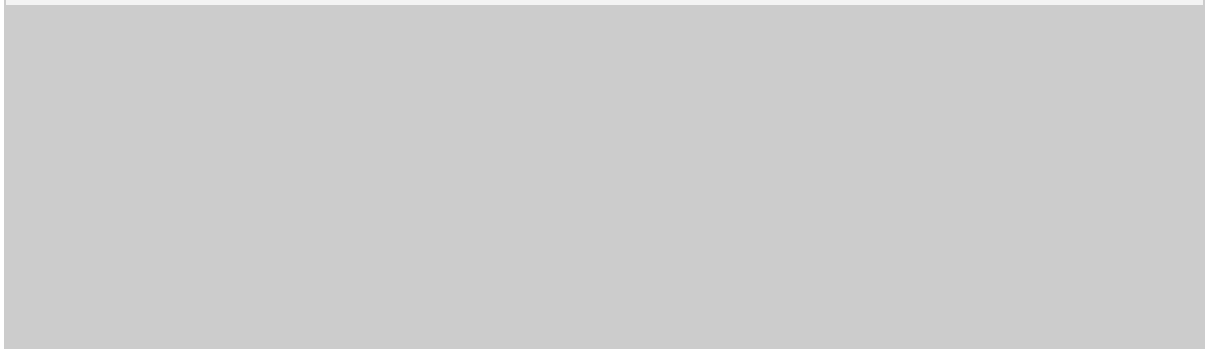
## PERFORMANCE (at initial value)

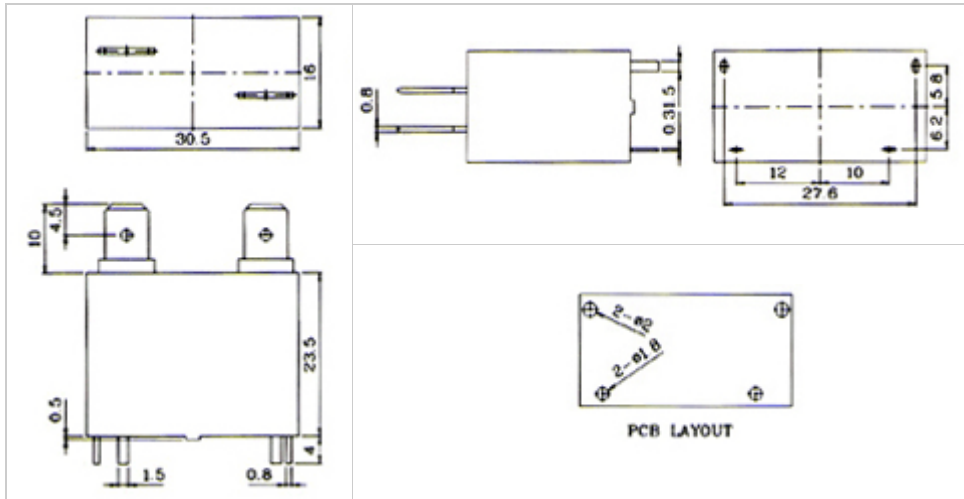
Item \ Type	20A
Contact Resistance	100mΩ Max (initial)
Operate Time	20m sec Max.
Release Time	15m sec Max.
Dielectric Strength between coil & contact between contact	Ac4500V (1min.) Ac1000V (1min.)
Insulation Resistance	1000MΩ Min. (DC500V)
Operating Ambient Temperature	-25°C ~ +55°C
Humidity	35 to 85% RH
Vibration Resistance	10G (10~50Hz) (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	22g (about)

#### CONTACT RATING

Item \ Type	20A
Rated Carrying Current	AC 250V 20A
Max. Allowable Current	25A
Max. Allowable Voltage	AC 250V
Max Current (continual)	20A
Contact Material	Ag Alloy

#### DIMENSIONS (Unit: mm)





WIRING DIAGRAMS (Bottom View)

