


**ARTICLE CODE**  
**S4 - 12 A**

**S4 Series**



Nil:1C  
 A:1A  
 B:1B

Coil voltage  
 6,9,12,24 VDC

Model Name:S4

**Main Features:**

- Automotive relay
- Contact rating up to 20amps
- Size:15.5X12X13.7
- High performance and low profile

**COIL RATING(at 20°C)**

Nominal Voltage (VDC)	Coil Resistance (Ω)(±10%)	Power Consumption(W)	Nominal Current (mA)(±10%)	Pull In Voltage (VDC)	Drop Out Voltage (VDC)	Max. Allowable Voltage (VDC)
6V	60 Ω	0.6W	100.0mA	75% MAX	10% MIX	110%
9V	135Ω		66.7mA			
12V	240Ω		50.0mA			
24V	960Ω		25.0mA			

**PERFORMANCE(at initial value )**

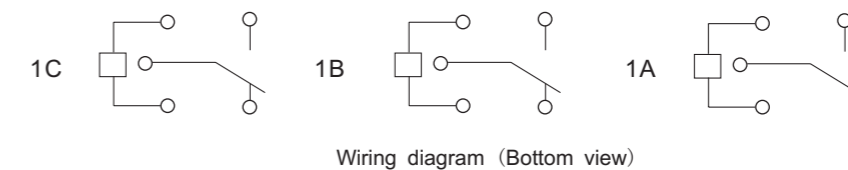
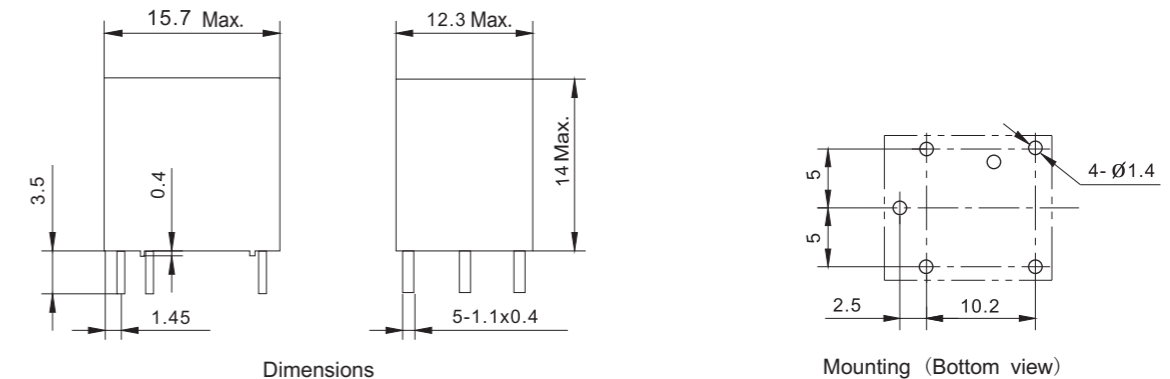
Item	Type	20A
Contact Resistance		100mΩ Max.(Initial Value)
Operate Time		10msec Max.
Release Time		5msec Max.
Dielectric Strength between Coil & Contact between Contact		1000VAC(00/60Hz 1min) 500VAC(50/60Hz 1min)
Insulation Resistance		100MΩ Min.(DC500V)
Operating Ambient Temperature		-30°C ~+85 °C (No Freezing)
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		6g(approx.)

**CONTACT RATING**

Item	Type	20A
Rated Carrying Current		20A/14VDC
Max. Allowable Current		25A
Max. Allowable Voltage		42VDC 380VAC
Max. Current(Continual)		20A
Min. Load		DC 10V 10mA
Contact Material		Ag alloy

**OUTLINE DIMENSION,WIRING DIAGRAM & PC BOARD LAYOUT**

Unit: mm



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.  
 2) The tolerance without indicating for PCB layout is always ±0.1mm.

**CHARACTERISTIC CURVES**

