

ARTICLE CODE

S9 U - 12 A - F

S9 Series



F: Sealed type
 Nil: Open type
 Nil: 1C
 A: 1A
 B: 1B
 Coil voltage
 6, 9, 12, 24 VDC
 U: USA
 E: Europe
 Model Name: S9

Main Features:

- Small size, heavy contact load, capable of standing strong current of 40A at 14VDC
- PC board mounting
- Suitable for automatic control facilities and automobile application etc
- Both European 11mm footprint and 8mm footprint available

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	20 Ω	1.6W	300.0mA	70% MAX	10% MIX	130%
9V	45 Ω		200.0mA			
12V	90 Ω		133.0mA			
24V	362Ω		63.0mA			

PERFORMANCE(at initial value)

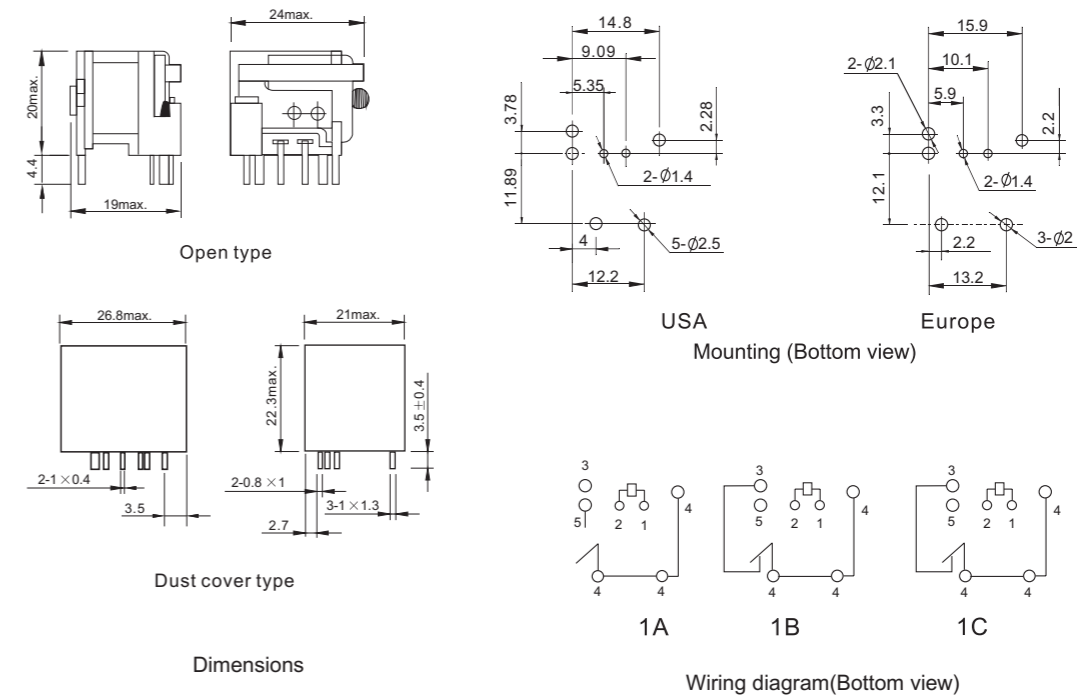
Item	Type	40A
Contact Resistance		50mΩ Max.(Initial Value)
Operate Time		5msec Max.
Release Time		3msec Max.
Dielectric Strength between Coil & Contact between Contact		1000VAC(1min) 500VAC(1min)
Insulation Resistance		50MΩ Min.(DC500V)
Operating Ambient Temperature		-40°C ~+125°C
Humidity		35 to 85% RH
Vibration Resistance		10G(10~55Hz) (Dual Amplitude:1.5mm)
Shock Resistance		Operating Extremes:10G Damage Limits:100G
Life Expectancy Mechanically Electrically		10,000,000 ops.Min.(1800 ops./h) 100,000 ops.Min.(1200 ops./h)
Weight		19g 21g(approx.)

CONTACT RATING

Item	Type	40A
Rated Carrying Current		40A/14VDC
Max. Allowable Current		45A
Max. Allowable Voltage		75VDC 380VAC
Max. Current(Continual)		40A
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.
 3) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

