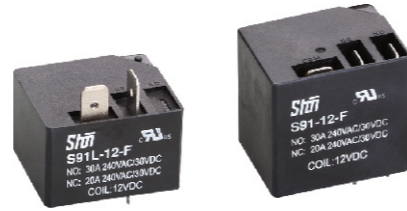


ARTICLE CODE

S91 L - 12 A - F

S91 Series



F: Sealed Type  
 Nil: Open Type  
 Nil: 1C  
 A: 1A  
 B: 1B  
 Coil Voltage  
 5,6,9,12,18,24,48 VDC  
 Nil: Standard  
 L: Low Profile type  
 Model Name: S91

- Main Features:
- Small size, light weight. Low coil power consumption, heavy contact load. reliability, long life.
  - PC board mounting and direct insert mounting available
  - Suitable for various industrial

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)
5V	28 Ω	0.9W	178.6mA	75% MAX	10% MIX	130%
6V	40 Ω		150.0mA			
9V	90 Ω		100.0mA			
12V	160 Ω		75.0mA			
18V	360 Ω		50.0mA			
24V	640 Ω		37.5mA			
48V	2560 Ω		18.8mA			

PERFORMANCE(at initial value )

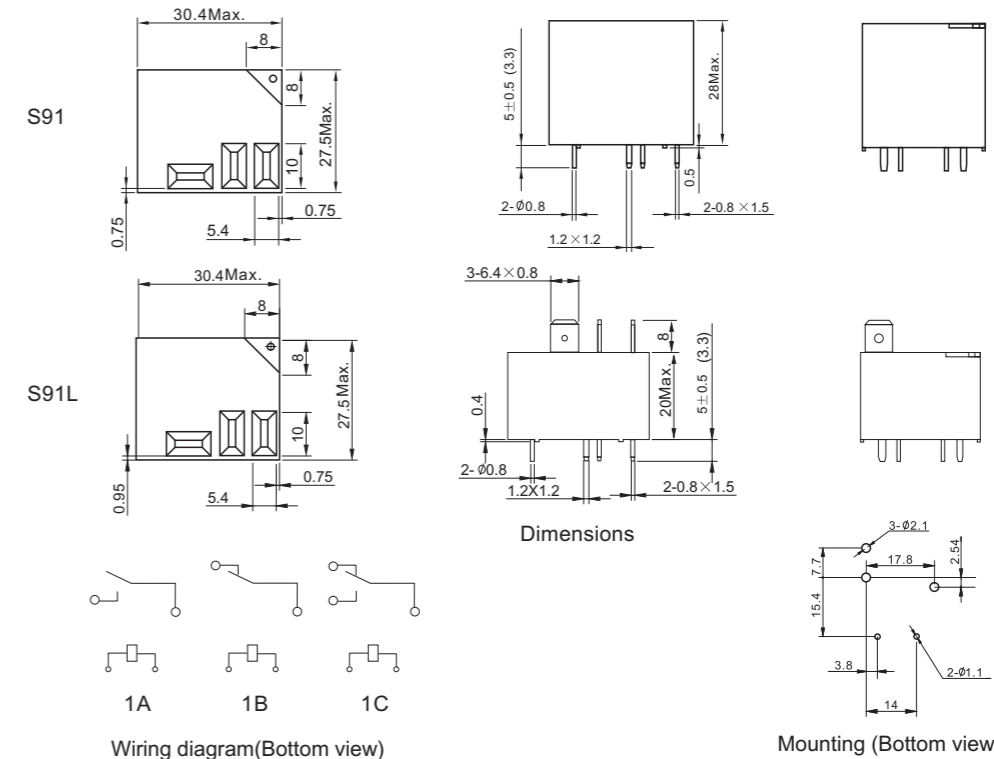
Item	Type	30A	40A
Contact Resistance		50mΩ	Max.(Initial Value)
Operate Time		15msec Max.	
Release Time		10msec Max.	
Dielectric Strength between Coil & Contact		2500VAC(1min) 1500VAC(1min)	
Insulation Resistance		100MΩ Min.(DC500V)	
Operating Ambient Temperature		-40°C ~+110°C	
Humidity		35 to 85% RH	
Vibration Resistance		10G(10~55Hz) (Dual Amplitude:1.5mm)	
Shock Resistance		10G	
Life Expectancy Mechanically		10,000,000 ops.Min. (1800 ops./h)	
Electrically		100,000 ops.Min. (1200 ops./h)	
Weight		33g	35g(approx.)

CONTACT RATING

Item	Type	30A	40A
Rated Carrying Current		30A/240VAC 30A/30VDC	40A/240VAC 40A/30VDC
Motor load		250VAC	240VAC
Max. Allowable Current		30A	40A
Max. Allowable Voltage		110VDC 250VAC	110VDC 250VAC
Max. Current(Continual)		30A	40A
Min. Load		10VDC 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

