

**ARTICLE CODE****S28 2C DC12V****S28(JQX-60F) Series**Coil voltage  
6~110VDC  
6~220VACContact Ratings  
1C,1A,1B

Model Name:S28

**Main Features:**

- With screw terminal fixed mounting.
- With open type, dust proof cover type.

**PERFORMANCE(at initial value )**

Item	Type	1C,1A,1B
Contact Resistance		100mΩ Max.(Initial Value)
Operate Time		25msec Max.
Release Time		25msec Max.
Pull In Voltage(VDC)		DC:75%Max,AC:80%Max
Drop Out Voltage(VDC)		DC:10%Max,AC:30%Max
Max. Allowable Voltage(VDC)		110%Max
Coil Nominal Voltage		DC:6V,9V,12V,24V,36V,48V,110V,220V AC:6V,9V,12V,24V,36V,48V,110V,220V,240V
Power Consumption(W)		DC:2.0W AC:2.5VA
Dielectric Strength between Coil & Contact between Contact between Contact		2500VAC (1min) 1500VAC (1min) 1500VAC (1min)
Insulation Resistance		1000MΩ Min.(DC500V)
Operating Ambient Temperature		-40℃ ~+70℃
Humidity		35 to 80% RH
Rated Carrying Current		60A/250VAC 60A/30VDC
Vibration Resistance		10G(10~55Hz) (Dual Amplitude:1.0mm)
Shock Resistance		10G
Life Expectancy Mechanically Electrically		10,000,000 ops.Min.(18000 ops./h) 100,000 ops.Min.(1800 ops./h)
Weight		160g(approx.)

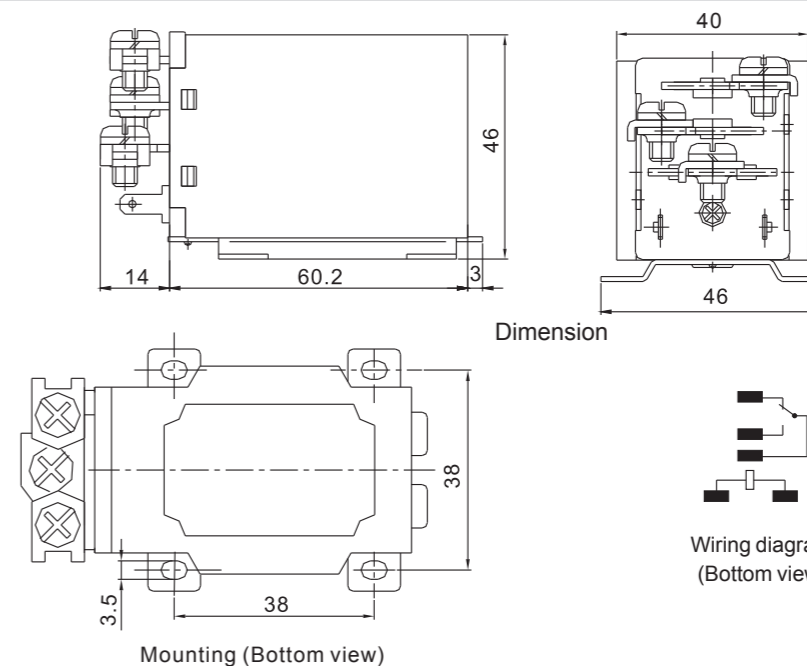
**COIL RATING(at 20℃)**

	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)
DC	6V	20Ω	2.0W	300.0mA	75% MAX	10% MIX	110%
	12V	45Ω		266.7mA			
	24V	320Ω		75.0mA			
	48V	1280Ω		37.5mA			
	60V	2800Ω		21.4mA			
	110V	9650Ω		11.4mA			

	Nominal Voltage (VAC)	Coil Resistance (Ω)(±10%)	Power Consumption(VA)	Pull In Voltage (VAC)	Drop Out Voltage (VAC)	Max. Allowable Voltage (VAC)
AC	6V	14.4Ω	2.5VA	80% MAX	30% MIX	110%
	12V	57Ω				
	24V	250Ω				
	48V	921Ω				
	110V	5000Ω				
	220V	19600Ω				
240V	25040Ω					

**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.

**WIRING DIAGRAMS(Bottom View)**