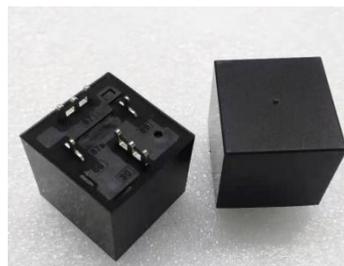


# Ningbo XINCHUANGZHI Electric Co.,Ltd.



## SCH-4142

### Features

- Miniature.
- Contact load capacity up to 100A.
- Suitable for automobile.
- Terminal types as inserting.

### Contact Data

Contact Arrangement 1A, 1B, 1C,  
Contact Material Ag•SnO<sub>2</sub>

Contact Rating (resistive)	1A	1B	1C
	80A/14VDC	40A,60A/14VDC	NO:80A/14VDC NC:40A /14VDC

Max. Switching Power	980W	
Max. Switching Voltage	75VDC	Max. Switching Current:100A
Contact Resistance or Voltage drop	30mΩ Max.	Item 3.12 of IEC255-7
Operation life	Electrical	10 <sup>5</sup>
	Mechanical	10 <sup>7</sup>
		Item 3.30 of IEC255-7
		Item 3.31 of IEC255-7

### Coil Parameter

Coil voltage VDC		Coil resistance Ω ±10%	Pickup voltage VDC(max) (of rated voltage)		Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms Max.	Release Time ms Max.
Rated	Max.		60%	70%				
6	7.8	20	3.6	4.2	0.6	1.8	7	5
12	15.6	80	7.2	8.4	1.2			
24	31.2	320	15.6	16.8	2.4			

**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

### Operation condition

Insulation Resistance <sup>1)</sup>	100MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength <sup>1)</sup>		
Between contacts	50Hz 500V	Item 6 of IEC255-5
Between contact and coil	50Hz 500V	Item 6 of IEC255-5
Shock resistance	147m/s <sup>2</sup> 11ms	IEC68-2-27 Test Ea method 1
Vibration resistance	10~40Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	8N 4N(PC type)	IEC68-2-21 Test Ua2
Solderability	230 °C± 2 °C 10± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85 °C	
Relative Humidity	85% (at 40 °C)	IEC68-2-3Test Ca
Mass	48g	

Note: 1). When testing, coil terminals shall be connect ,If coil transient suppression is installed in relay .

### Qualification inspection:

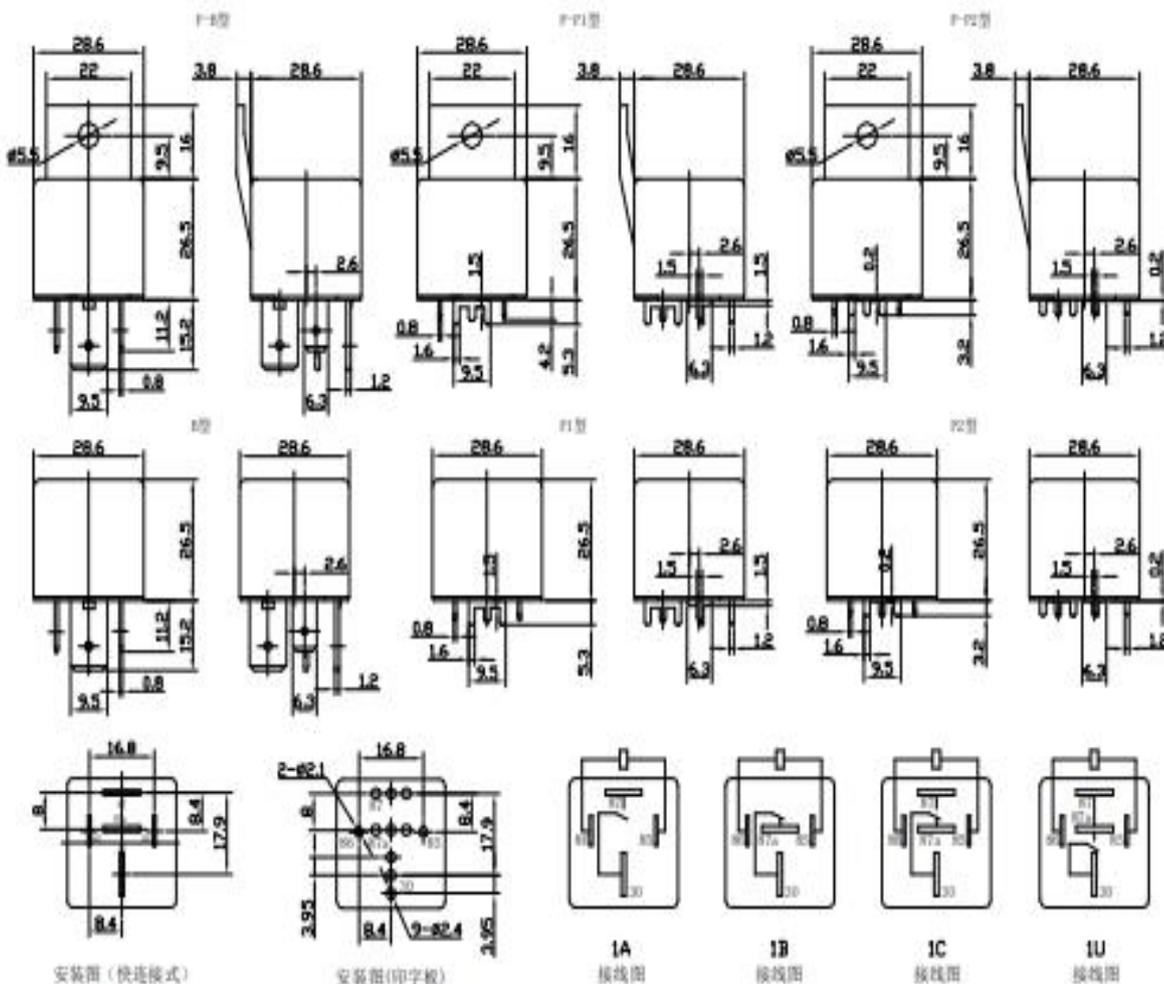
Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

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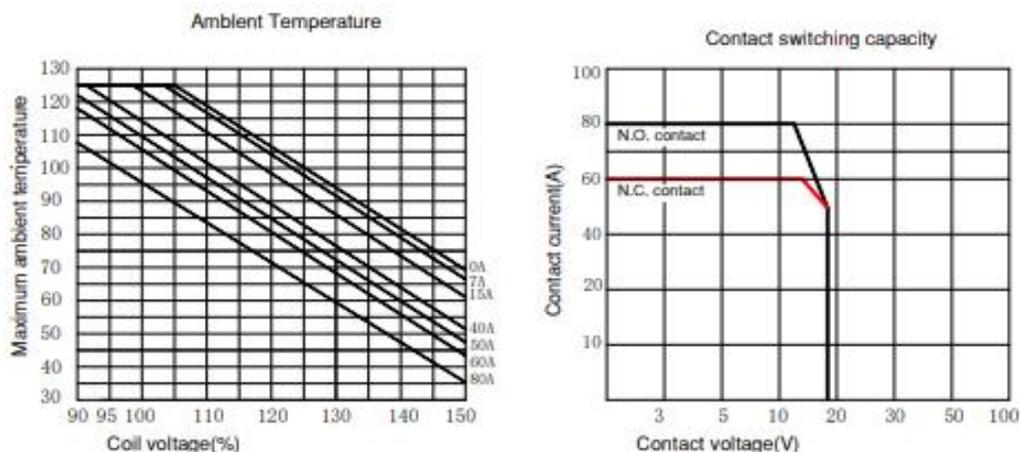
SCH4142

Ordering Information						
SCH4142	1	A	12	D	P	Coil transient suppression :1:with diod.;2:with two diod. R:with resis.;2R:with diod. and resis; NIL:standard
P:PCB type PC, Nil :plug in type(standard type)						
Coil Power Consumption: D:Standard Coil Sensitivity, L: High Coil Sen,sitivity						
Coil rated DC Voltage:6V, 12V, 24V						
Contact Arrangement : A:SPST-NO, B:SPST-NC, C:SPDT, U:DPST-NO						
Number of poie : 1:1pole,						
Part number: SCH4142						

Dimensions, mounting position:



# Ningbo XINCHUANGZHI Electric Co.,Ltd.



## Others

All the performance data listed in the datasheet are the initial values tested under standard testing condition.

Unsealed relays should be hand soldered to avoid flux contamination of the relay.

To avoid using relays under strong magnetic field because it will change the parameters of relay such as pull-in and drop-out voltage.

To maintain the performances of relays, please do not make the relay drop or be shocked strongly. Suggest that the relays dropped not be used.

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