

812H, 812BH



»» Features

- Miniature PCB Power Relays 10A 250VAC.
- High CTI250 and New Glow Wire Approved material.
- UL Insulation Class F.
- VDE 0435, UL/CUL, TUV, CSA approved.
- Comply with RoHS-Directive 2011/65/EU.

»» Type List

◆ 812H

Terminal style	Contact form	UL Insulation system approval	Designation (provided with)	
			Flux tight	Sealed type washable
PCB terminal	1C (SPDT)	-----	812H-1C-C	812H-1C-S
		F	812H-1C-C FXXVDC	812H-1C-S FXXVDC
	1A (SPNO)	-----	812H-1A-C	812H-1A-S
		F	812H-1A-C FXXVDC	812H-1A-S FXXVDC
	1B (SPNC)	-----	812H-1B-C	812H-1B-S
		F	812H-1B-C FXXVDC	812H-1B-S FXXVDC

◆ 812BH

Terminal style	Contact form	UL Insulation system approval	Designation (provided with)	
			Flux tight	Sealed type washable
PCB terminal	1C (SPDT)	-----	812BH-1C-C	812BH-1C-C
		F	812BH-1C-C FXXVDC	812BH-1C-C FXXVDC
	1A (SPNO)	-----	812BH-1A-C	812BH-1A-C
		F	812BH-1A-C FXXVDC	812BH-1A-C FXXVDC

»» Ordering Information

812 BH - 1A - C E F XXVDC
 1 2 3 4 5 6 7

- | | | | |
|--------|--|----------|--|
| 1. 812 | -- Basic series designation | 4. C | -- Flux tight |
| 2. BH | -- High power type with insulation barrier | S | -- Sealed type washable |
| H | -- High power type | 5. Blank | -- Standard type |
| 3. 1A | -- Single pole normally open | E | -- CTI 250V |
| 1B | -- Single pole normally Closed | 6. Blank | -- Standard type |
| 1C | -- Single pole double throw | F | -- Class F |
| | | 7. XXVDC | -- Coil voltage (please refer to the coil rating data for the availability). |

»» Contact Rating

Resistive load	NO: 10A/240VAC 12A/120VAC NC: 8A/240VAC 10A/120VAC
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»»» Coil Rating (DC)

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 85°C	Pick up voltage(Max) at 23°C	Drop out voltage(Min) at 23°C	Power consumption at rated voltage
3	120	25	160 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 0.36W
5	73	69				
6	60	100				
9	40	225				
12	30	400				
18	20	900				
24	15	1600				
48	7.5	6400				

»»» Specification

Contact material	AgSnO alloy	
Contact resistance ⁽¹⁾	100mΩ Max.	
Operate time ⁽¹⁾	15ms Max.	
Release time ⁽¹⁾	5ms Max.	
Insulation resistance ⁽¹⁾	100 MΩ Min. (DC 500V)	
Dielectric strength ⁽¹⁾	Between open contact	: AC 750V , 50/60Hz 1 min. (for 812H) : AC 1000V, 50/60Hz 1 min. (for 812BH)
	Between contact and coil	: AC 1500V , 50/60Hz 1 min. (for 812H) : AC 2000V, 50/60Hz 1 min. (for 812BH)
Vibration resistance	Operating extremes	10~50Hz , amplitude 1.0 mm
	Damage limits	10~50Hz , amplitude 1.0 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 operations (frequency 18,000 operations/hr)
	Electrical	100,000 operations (frequency 900 operations/hr)
Operating ambient temperature	-40 ~ +85°C (no freezing)	
Weight	Approx. 9 g	

Note : (1) initial value

»»» Safety Approval

Certified	UL / CUL	CSA	VDE	TUV
File No.	E88991	1129068	122905	R50041911

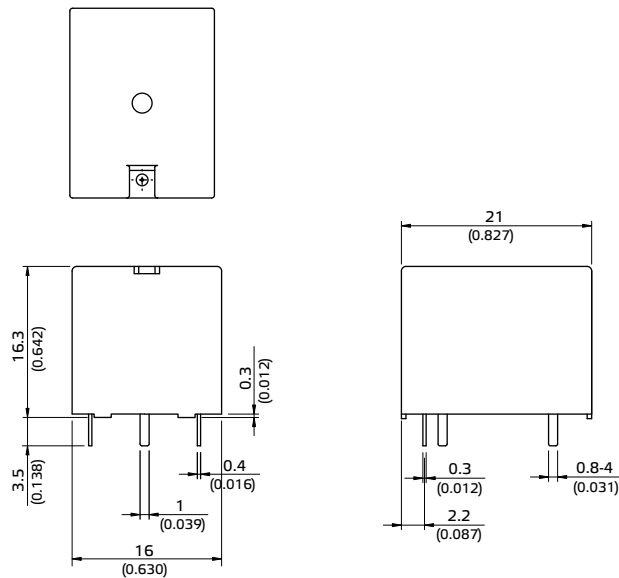
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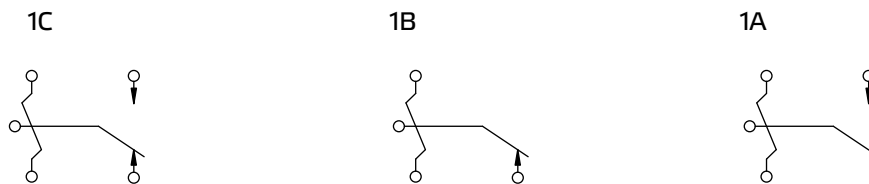
»» Safety Approval Rating

UL / CUL, CSA		VDE	TUV
NO	NC		
20A 125VAC 16A 277VAC 1/2 HP 125VAC 1HP 250VAC 10A 30VDC TV 8	20A 125VAC 12A 277VAC 1/2 HP 125VAC 1HP 250VAC 7A 30VDC	12A 250VAC T85 10A 250VAC T105	7A 250VAC 10A 125VAC 7A 30VDC

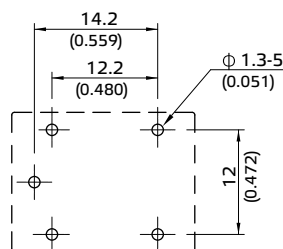
»» Outline Dimensions



»» Wiring Diagram BOTTOM VIEW



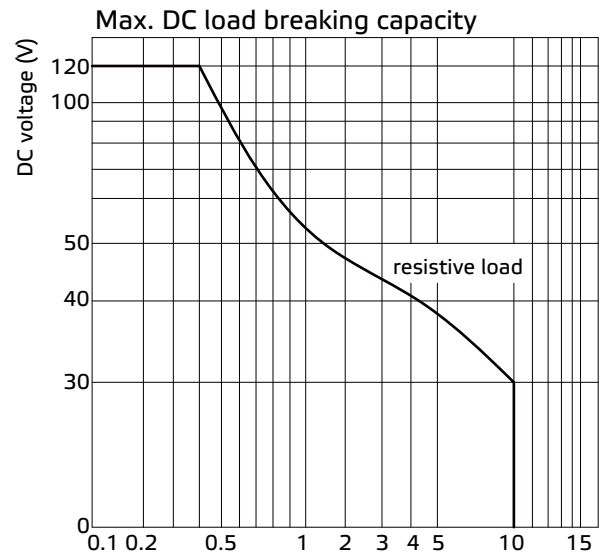
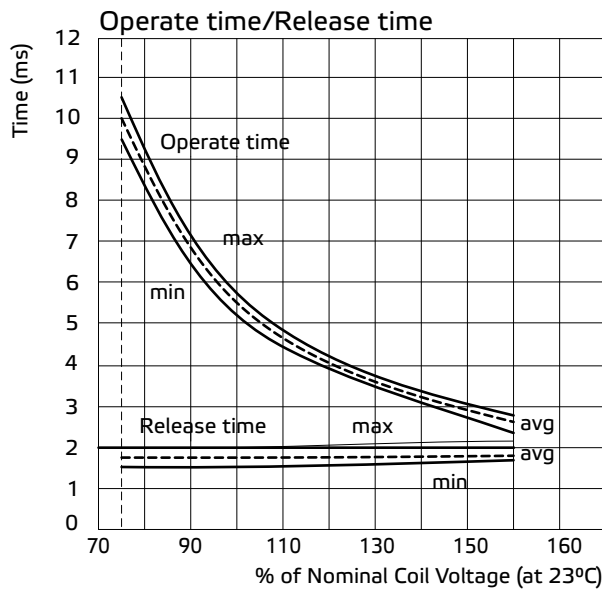
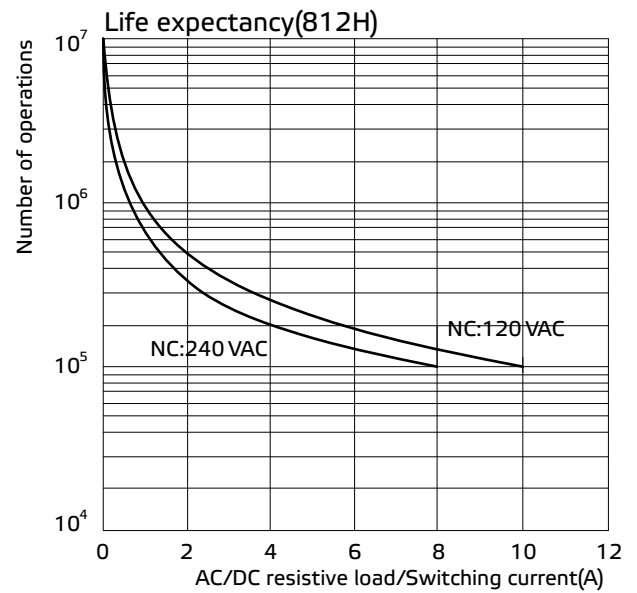
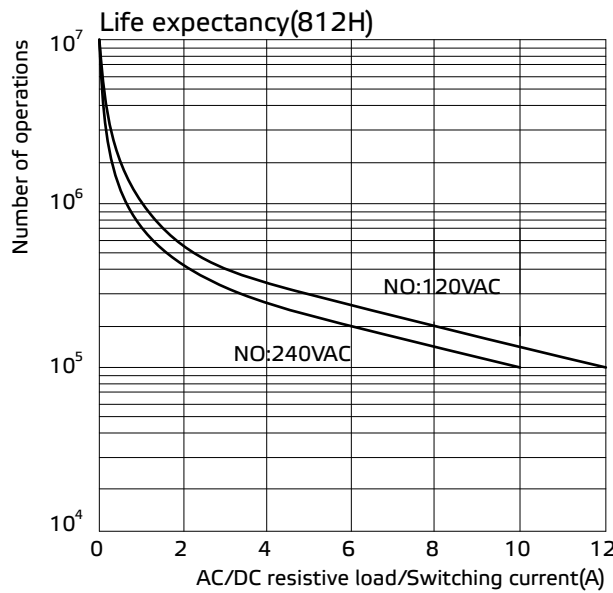
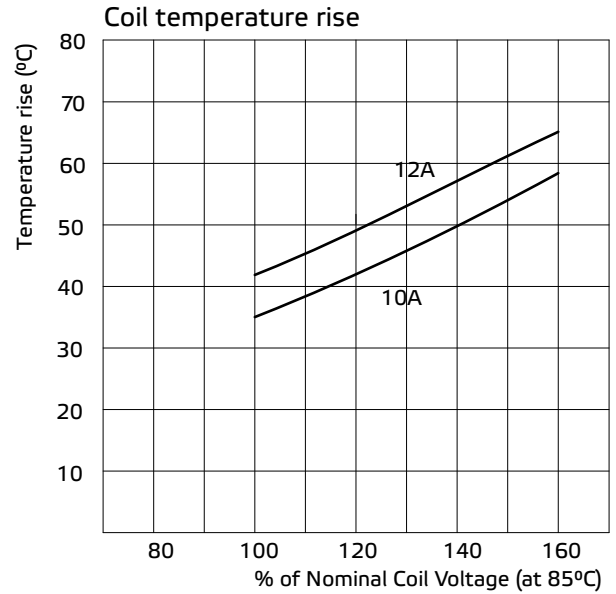
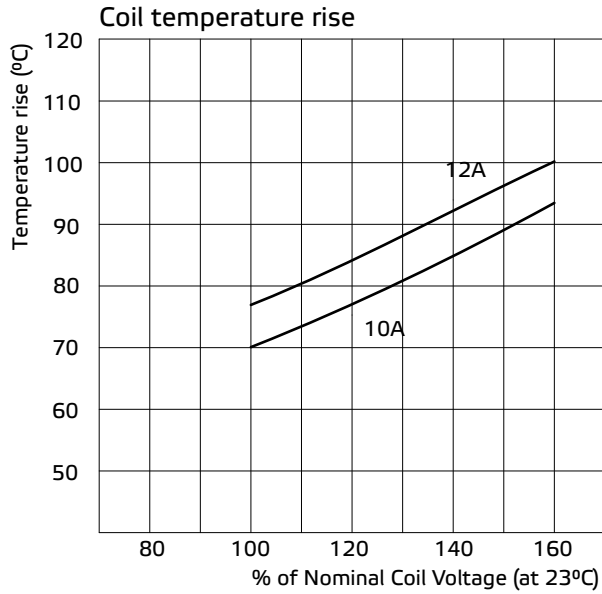
»» PC Board Layout BOTTOM VIEW





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»» Engineering Data



Disclaimer

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or liability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification. All rights of Song Chuan are reserved.