

# 812H/812BH



## »» Features



- Miniature PCB Power Relays 10A 250VAC.
- High CTI 250 and New Glow Wire Approved material.
- UL Insulation Class F.
- VDE, UL/CUL, TUV, CSA/CUS approved.
- Complies with RoHS-Directive 2011/65/EU.
- Optional for halogen free version.

## »» Type List

### ◆ 812H

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

### ◆ 812BH

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

## »» Ordering Information

$\frac{812}{1}$     $\frac{H}{2}$    -    $\frac{1A}{3}$    -    $\frac{C}{4}$     $\frac{\square}{5}$     $\frac{\square}{6}$     $\frac{XXVDC}{7}$

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

## »» 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 <sup>(1)</sup>	100mΩ Max. (1A/6VDC by 4 pipes mΩ meter)	
Operate time <sup>(1)</sup>	15ms Max.	
Release time <sup>(1)</sup>	5ms Max.	
Insulation resistance <sup>(1)</sup>	100MΩ Min. (DC 500V)	
Dielectric strength <sup>(1)</sup>	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. Operate and release time excluding contact bounce.

## »» Safety Approval

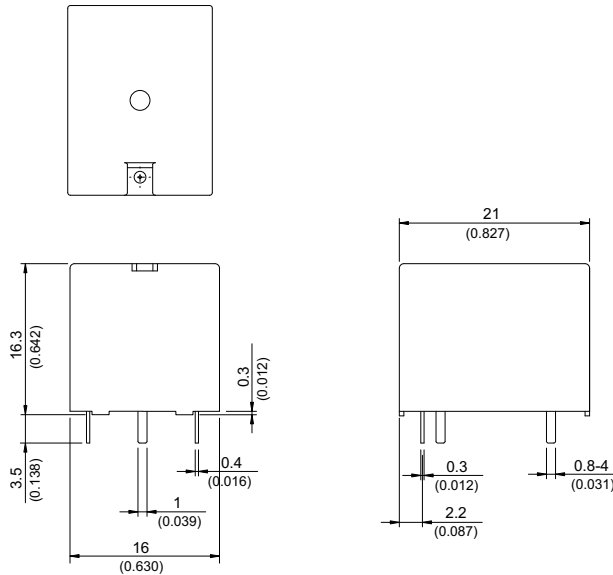
Certified	UL / CUL	CSA / CUS	VDE	TUV
File No.	E88991	1129068	122905	R50041911

# 812H/812BH

## »» Safety Approval Rating

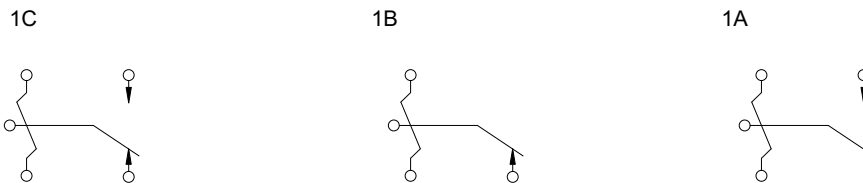
UL / CUL, CSA		VDE	TUV
NO	NC		
20A 125VAC	20A 125VAC	12A 250VAC T85	7A 250VAC
16A 277VAC	12A 277VAC	10A 250VAC T105	10A 125VAC
1/2 HP 125VAC	1/2HP 125VAC		7A 30VDC
1HP 250VAC	1HP 250VAC		
10A 30VDC	7A 30VDC		
TV 8			

## »» Outline Dimensions



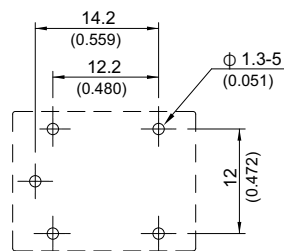
## »» Wiring Diagram

BOTTOM VIEW

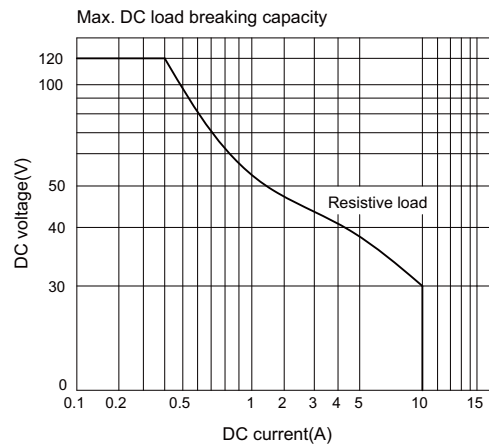
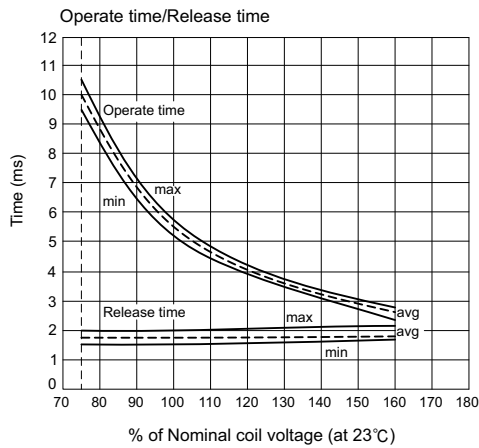
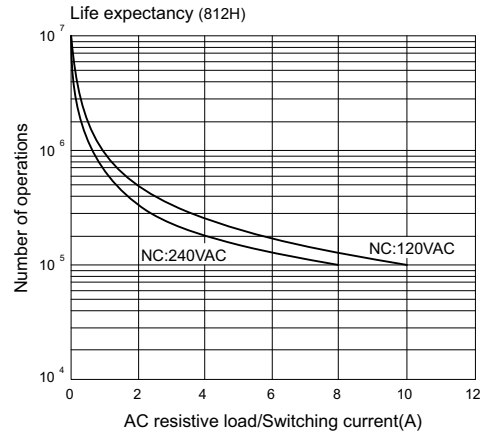
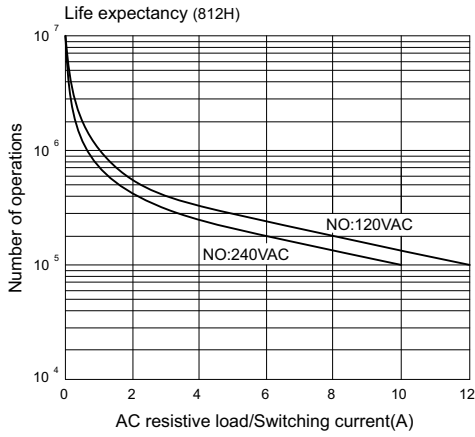
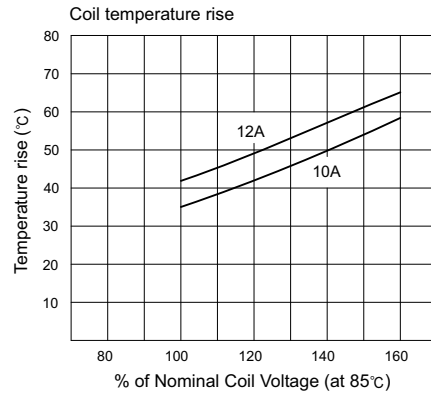
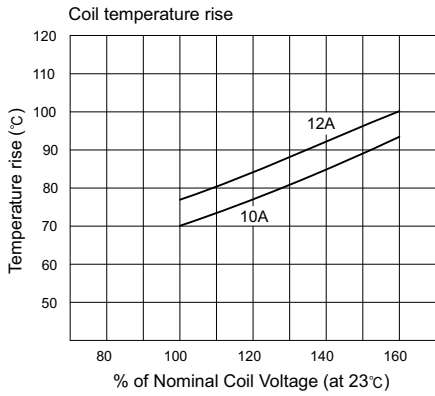


## »» PC Board Layout

BOTTOM VIEW



## »» Engineering Data



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