

812H/812BH



»» Features

- Miniature PCB power relays 10A 250VAC.
- High CTI plastic material up to greater than 250 (E type) and N.G.W. approved.
- UL insulation class F.
- VDE 0435, UL/CUL, TUV, CSA approved.
- Cadmium free contacts.

»» 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

PCB terminal	1C (SPDT)	F	812BH-1C-C FXXVDC	812BH-1C-V FXXVDC	812BH-1C-S FXXVDC
	1A (SPNO)	F	812BH-1A-C FXXVDC	812BH-1A-V FXXVDC	812BH-1A-S FXXVDC

»» Ordering Information

812 B H - 1A - C E FXXVDC
1 2 3 4 5 6 7

- | | |
|------------------------------------|--|
| 1. 812 -- Basic series designation | 5. C -- Flux tight |
| 2. Blank -- Standard type | V -- Sealed type |
| B -- With insulation barrier | S -- Sealed type washable |
| 3. Blank -- General power type | 6. E -- CTI ≥ 250VAC |
| H -- High power type | Blank -- Standard type |
| 4. 1A -- Single pole normally open | 7. Blank -- Standard type |
| 1B -- Single pole normally closed | FXXVDC -- Denotes class F & coil voltage |
| 1C -- Single pole double throw | |

»» Contact Rating

Resistive load	812H	12A 120VAC ^(*) 、10A 120VAC、7A 240VAC
	812BH	1C: 7A 240VAC、1A: 10A 240VAC

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»» Coil Rating (DC)

Rated voltage (V)	Rated current $\pm 10\%$ at 23°C (mA)	Coil resistance $\pm 10\%$ 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
5	73	69	160 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 0.36W
6	60	100				
9	40	225				
12	30	400				
24	15	1600				
48	7.5	6400				

»» Specification

Contact material	AgSnO alloy	
Contact resistance ⁽¹⁾	50 m Ω Max.	
Operate time ⁽¹⁾	15 ms Max.	
Release time ⁽¹⁾	5 ms Max.	
Insulation resistance ⁽¹⁾	100 M Ω 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 (※30,000 ops. for 812H) (frequency 900 operations/hr)
Operating ambient temperature	-30 ~ +85° C (no freezing)	
Weight	Approx. 10 g	

Note : (1) initial value

»» Safety Approval

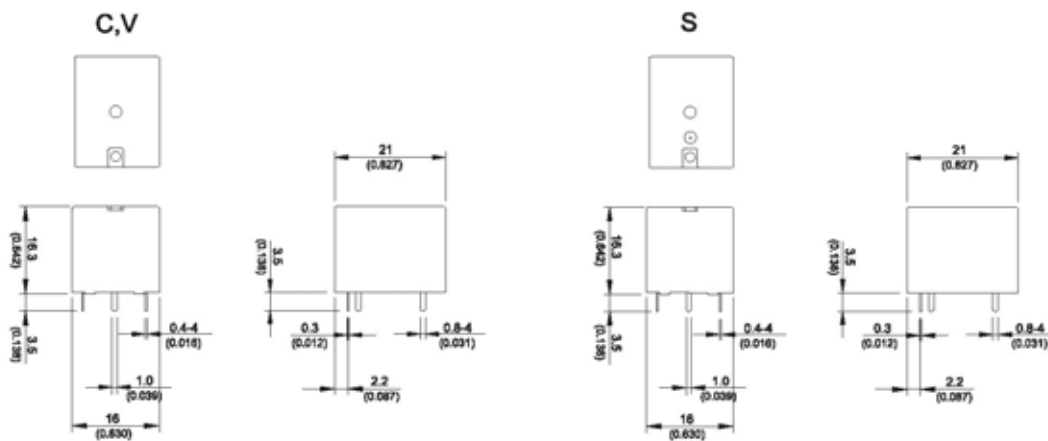
Type	812H/812BH	812H		812BH
Certified	UL/CUL	CSA	TUV	VDE
File No.	E88991	1129068	R9452021	122905

812H/812BH

»» Safety Approval Rating

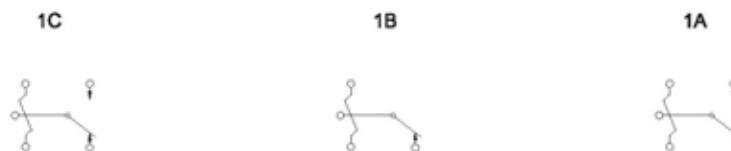
UL/CUL	CSA	TUV	VDE
812H/812BH	812H	812H	812BH
15A 125VAC 10A 250VAC (NO) 7A 250VAC (NC) 12A 277VAC 7A 30VDC 1/4HP 125/250VAC (NO) 1/10HP 125VAC (NC) TV-5 (for 1A)	12A 125VAC 7A 250VAC 7A 30VDC	7A 250VAC 10A 125VAC 7A 30VDC	NC:7A 250VAC T85 NO:10A 250VAC T85

»» Outline Dimensions



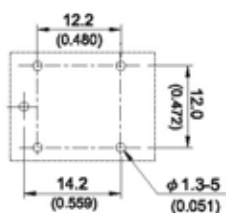
»» Wiring Diagram

BOTTOM VIEW



»» PC BOARD LAYOUT

BOTTOM VIEW



»» Engineering Data

