812H/812BH

Features

- ☐ Miniature PCB Power Relays 10A 250VAC.
- ☐ High CTI 250 and New Glow Wire Approved material.
- ☐ UL Insulation Class F.
- ☐ VDE 0435, UL/CUL, TUV, CSA approved.
- ☐ Comply with RoHS-Directive 2002/95/EC.

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

812	BH	-	1A	-	C	E	FXXVDC
1	2		3		4	5	6

1. 812 -- Basic series designation

2. BH -- High power type with insulation barrier
   H -- High power type

3. 1A -- Single pole normally open
   1B -- Single pole normally closed
   1C -- Single pole double throw

4. C -- Flux tight
   V -- Sealed type
   S -- Sealed type washable

5. Blank -- Standard type
   E -- CTI 250V

6. Blank -- Standard type
   F -- Class F

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)	100MΩ 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

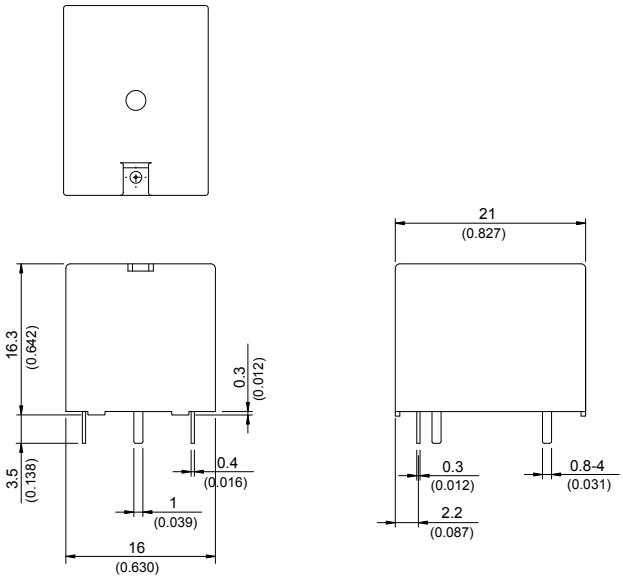
Certified	UL / CUL	CSA	VDE	TUV
File No.	E88991	1129068	122905	R50041911

812H/812BH

Safety Approval Rating

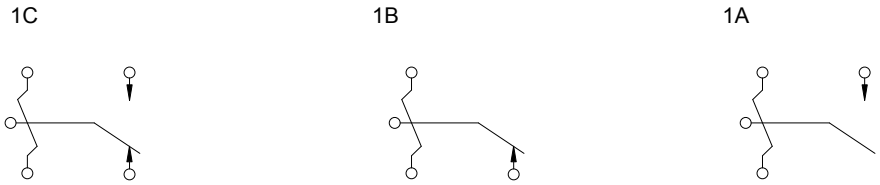
UL / CUL, CSA		VDE	TUV
NO	NC		
20A 125VAC	20A 125VAC	12A 250VAC T85	7A 250VAC
16A 277VAC	12A 277VAC	10A 250VAC T105	10A 125VAC
1/2 HP 125VAC	1/2HP 125VAC		7A 30VDC
1HP 250VAC	1HP 250VAC		
10A 30VDC	7A 30VDC		
TV 8			

Outline Dimensions



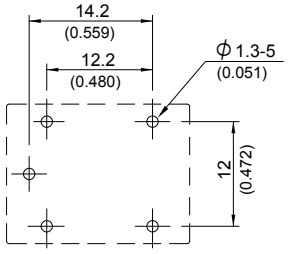
Wiring Diagram

BOTTOM VIEW



PC Board Layout

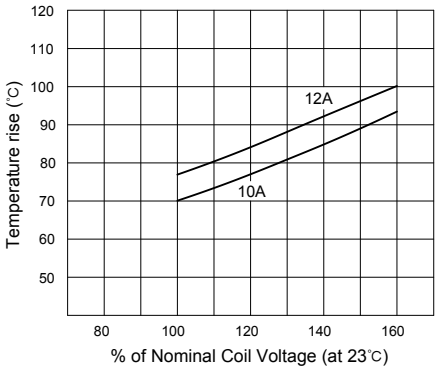
BOTTOM VIEW



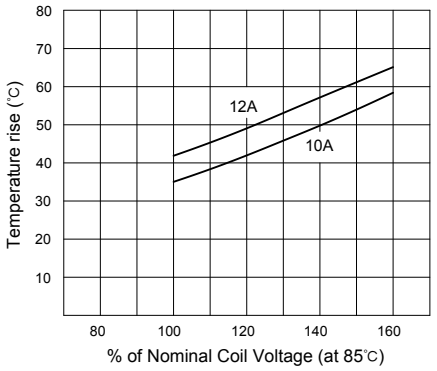
812H/812BH

Engineering Data

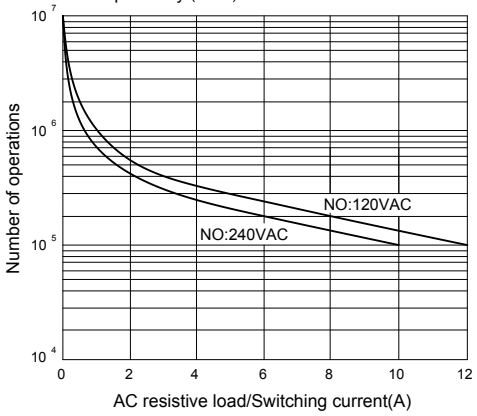
Coil temperature rise



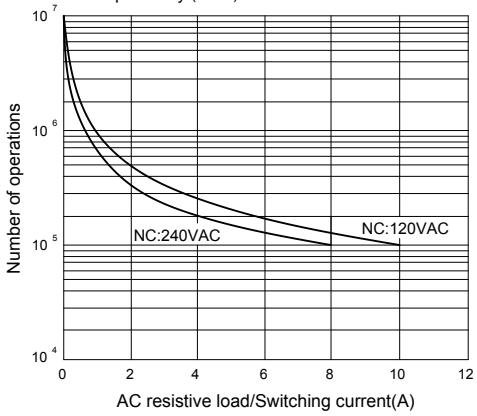
Coil temperature rise



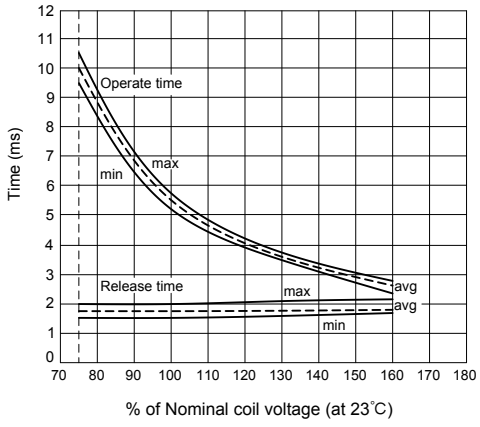
Life expectancy (812H)



Life expectancy (812H)



Operate time/Release time



—— All specifications subject to change. Please contact Song Chuan for update. ——