



»» Features

- Low cost miniature PCB sugar cube relay.
- General purpose application.
- 10A 277VAC, 15A 125VAC ratings.
- SPNO, SPNC, SPDT and sealed flux free & sealed washable type are available.

»» Type List

Terminal style	Contact form	UL Insulation system approval	Designation (provided with)		
			Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	-----	833H-1A-C	833H-1A-V	833H-1A-S
		F	833H-1A-F-C	833H-1A-F-V	833H-1A-F-S
	1B (SPNC)	-----	833H-1B-C	833H-1B-V	833H-1B-S
		F	833H-1B-F-C	833H-1B-F-V	833H-1B-F-S
	1C (SPDT)	-----	833H-1C-C	833H-1C-V	833H-1C-S
		F	833H-1C-F-C	833H-1C-F-V	833H-1C-F-S

»» Ordering Information

833H - 1A - F - C
 1 2 3 4

- | | |
|---|--|
| 1. 833H -- Basic series designation

2. 1A -- Form A, normally open (SPNO)
1B -- Form B, normally closed (SPNC)
1C -- Form C, Double-throw (SPDT) | 3. Blank -- Standard type
F -- Class F

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

»» Contact Rating

Resistive load	10A/125VAC , 7A/250VAC , 7A/30VDC
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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 70° C	Pick up voltage(Max) at 23° C	Drop out voltage(Min) at 23° C	Power consumption at rated voltage
5	72	70	150 % 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	9.4	5120				approx. 0.45W

833H

»» Specification

Contact material	AgCdO alloy	
Contact resistance ⁽¹⁾	100 mΩ Max.	
Operate time ⁽¹⁾	10 ms Max.	
Release time ⁽¹⁾	5 ms Max.	
Insulation resistance ⁽¹⁾	100 MΩ Min. (DC 500V)	
Dielectric strength ⁽¹⁾	Between open contact	: AC 500V , 50/60Hz 1 min.
	Between contact and coil	: AC 1500V , 50/60Hz 1 min.
Vibration resistance	Operating extremes	10 ~ 50Hz , amplitude 1.5 mm
	Damage limits	10 ~ 50Hz , amplitude 1.5 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 1,200 operations/hr)
Operating ambient temperature	-30 ~ +70° C (no freezing) ⁽²⁾	
Weight	Approx. 10 g	

Note : (1) initial value

(2) -30~+85°C is available.

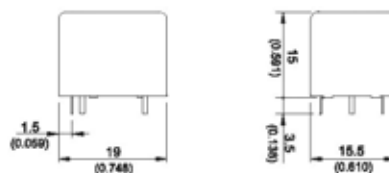
»» Safety Approval

Certified	UL/CUL	TUV
File No.	E88991	R3-09754206

»» Safety Approval Rating

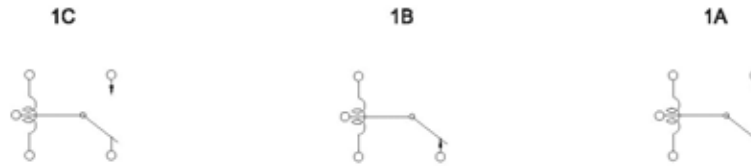
UL/CUL	TUV
15A 125VAC	12A 125VAC
10A 277VAC	7A 250VAC
7A 30VDC	7A 30VDC
1/4HP 125/250VAC	4A 250VAC cosφ0.3
1/3HP 125/250VAC	

»» Outline Dimensions



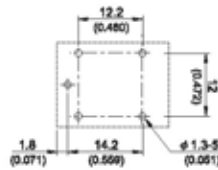
»» Wiring Diagram

BOTTOM VIEW



»» PC BOARD LAYOUT

BOTTOM VIEW



»» Engineering Data

