



»» Features

- Miniature PCB surge cube relay with highest rating 20A
- 125VAC, 16A 277VAC, TV -8 ratings.
- CSA/CUS, TUV, UL/CUL approved.
- UL Class F and high temperature withstand up to 85 degree C.
- SPNO, SPNC, SPDT contact configurations, sealed flux free & sealed washable types are available.
- Ideal for motor control, compressor control for household appliances.
- Contact rating up to 16A 250VAC (SPNO).
- Comply with RoHS-Directive 2011/65/EU.

»» Type List

Terminal style	Contact form	UL Insulation system approval	Designation (provided with)	
			Flux tight	Sealed type washable
PCB terminal	(SPNO)	-----	875B-1AC-C	875B-1AC-S
		F	875B-1AC-F-C	875B-1AC-F-S
		-----	875B-1AH-C	875B-1AH-S
		F	875B-1AH-F-C	875B-1AH-F-S
	(SPDT)	-----	875B-1CC-C	875B-1CC-S
		F	875B-1CC-F-C	875B-1CC-F-S
		-----	875B-1CH-C	875B-1CH-S
		F	875B-1CH-F-C	875B-1CH-F-S

»» Ordering Information

$\frac{875}{1}$ $\frac{B}{2}$ - $\frac{1A}{3}$ $\frac{C}{4}$ - $\frac{F}{5}$ - $\frac{C}{6}$ $\frac{XXVDC}{7}$

- | | | | |
|--------|--|----------|--|
| 1. 875 | -- Basic series designation | H | -- Contact material AgSnO |
| 2. B | -- Barrier provided between coil and frame | HA | -- Contact material AgSnO + Au |
| 3. 1A | -- Single pole normally open | 5. Blank | -- Standard type |
| 1B | -- Single pole normally Closed | F | -- Class F |
| 1C | -- Single pole double throw | 6. C | -- Flux tight |
| 4. C | -- Contact material AgNi | S | -- Sealed type |
| CA | -- Contact material AgNi + Au | 7. XXVDC | -- Coil voltage (please refer to the coil rating data for the availability). |

»» Contact Rating

	1A	1B	1C
Resistive load	16A 240VAC	12A 240VAC	NO/NC : 16A/12A 240VAC 16A 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
3	120	25	150 % of rated voltage	75 % of rated voltage	5 % of rated voltage	approx. 0.36W
5	73	69				
6	60	100				
9	40	225				
12	30	400				
18	20	900				
24	15	1600				
36	10	3600				
48	7.5	6400				

»» Specification

Contact material	AgSnO / AgNi alloy	
Contact resistance ⁽¹⁾	100m Ω Max.	
Operate time ⁽¹⁾	15ms Max.	
Release time ⁽¹⁾	10ms Max.	
Insulation resistance ⁽¹⁾	100M Ω Min. (DC 500V)	
Dielectric strength ⁽¹⁾	Between open contact	: AC 1000V, 50/60Hz 1 min.
	Between contact and coil	: AC 2500V, 50/60Hz 1 min.
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 (※ 50,000 operations) (frequency 360 operations/hr)
Operating ambient temperature	-40 ~ +85°C (no freezing)	
Weight	Approx. 10 g	

Note : (1) initial value

»» Safety Approval

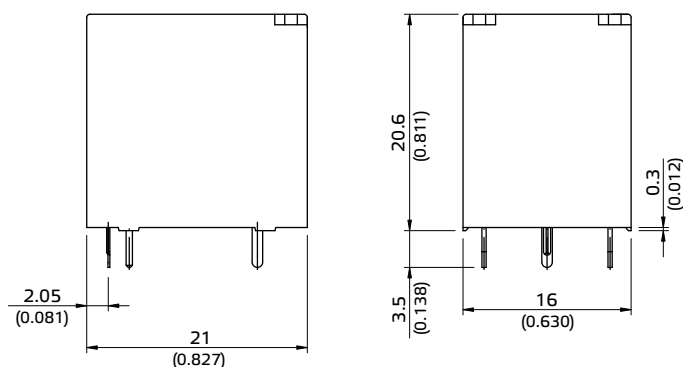
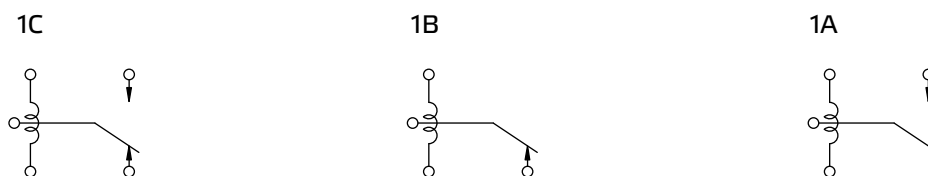
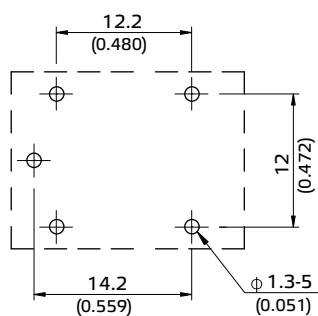
Certified	CSA / CUS	TUV	UL / CUL
File No.	1474282	R3-50006128	E88991

»» Safety Approval Rating

CSA / CUS, UL / CUL			
AgNi		AgSnO	
NO	NC	NO	NC
17A 250VAC 20A 125VAC 1HP 8FLA 250VAC	15A 250VAC 20A 125VAC 1/2HP 4.9FLA 250VAC 1/2HP 9.8FLA 125VAC	20A 125VAC 17A 250VAC 1HP 8FLA 250VAC 1HP 16FLA 125VA 17FLA 30LRA 250VAC TV-8	20A 125VAC 10A 250VAC 1/2HP 4.9FLA 250VAC 1/2HP 9.8FLA 125VAC TV-8

TUV
16A 250VAC 20A 125VAC

»» Outline Dimensions

»» Wiring Diagram
BOTTOM VIEW»» PC Board Layout
BOTTOM VIEW



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»» Engineering Data

