



# 899



## »» Features

- Baby Sugar Cube Relay.
- 10A 277VAC ; 15A 125VAC ; UL/CUL, VDE Approvals.
- High Insulation up to 2000V ( 899B type ).
- High CTI material greater than 250.
- 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	1A (SPNO)	-----	899-1A-C	899-1A-S
		F	899-1A-F-C	899-1A-F-S
	1B (SPNC)	-----	899-1B-C	899-1B-S
		F	899-1B-F-C	899-1B-F-S
	1C (SPDT)	-----	899-1C-C	899-1C-S
		F	899-1C-F-C	899-1C-F-S
	1A (SPNO)	F	899B-1A-F-C	899B-1A-F-S
1B (SPNC)	F	899B-1B-F-C	899B-1B-F-S	
1C (SPDT)	F	899B-1C-F-C	899B-1C-F-S	

## »» Ordering Information

899 - 1A - F - C E XXVDC  
 1      2      3      4      5      6

- |  |  |
|--|--|
| 1. 899 -- Basic series designation                       | 4. C -- Flux tight   |
| 899B -- Basic series designation with insulation barrier | S -- Sealed type washable  |
| 2. 1A -- Single pole normally open                       | 5. Blank -- Standard type  |
| 1B -- Single pole normally closed                        | E -- CTI 250V  |
| 1C -- Single pole double throw                           | 6. XXVDC -- Coil voltage (please refer to the coil rating data for the availability) |
| 3. Blank -- Standard type                                |  |
| F -- Class F   |  |

## »» Contact Rating

Resistive load	NO : 7A 240VAC , 10A 120VAC ; NC : 7A 240VAC
----------------	--

### »» 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
3	120	25	150 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 0.36W
5	72	70				
6	60	100				
9	40	225				
12	30	400				
15	24	625				
18	20	900				
24	15	1600				
36	10	3600				
48	7.5	6400				

### »» Specification

Contact material	AgNi alloy <sup>(2)</sup>	
Contact resistance <sup>(1)</sup>	100mΩ Max.	
Operate time <sup>(1)</sup>	10ms 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. : AC 1000V , 50/60Hz 1 min. (for 899B type)
	Between contact and coil	: AC 1500V , 50/60Hz 1 min. : AC 2000V , 50/60Hz 1 min. (for 899B type)
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 360 operations/hr)
Operating ambient temperature	-40 ~ +70°C (no freezing) <sup>(3)</sup>	
	Approx. 10 g	

Note: (1) initial value

(2) AgSnO alloy contact material is available.

(3) -40~+85°C is available.



# 899

## »» Safety Approval

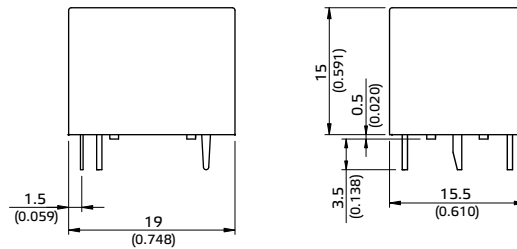
Certified	UL / CUL	VDE
File No.	E88991	40012174

## »» Safety Approval Rating

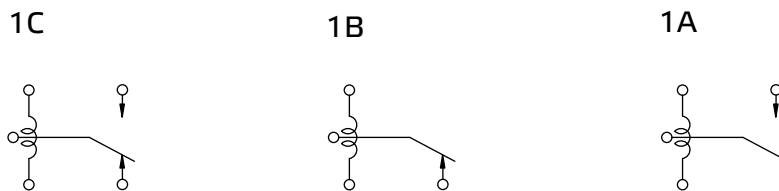
UL / CUL	VDE	
	NO	NC
※ 15A 125VAC 10A 277VAC 1/3HP 125/250VAC (NO) 1/4HP 125/250VAC (NC)	10A 250VAC T85 6A 250VAC T105	6A 250VAC T85

- Notes: 1. More details can be provide on request  
 2. ※ -- Class F only

## »» Outline Dimensions



## »» Wiring Diagram BOTTOM VIEW



## »» PC Board Layout BOTTOM VIEW

