Features

- ☐ High rating general purpose miniature PCB Power Relays.
- ☐ Optional for 700mW coil and 530mW coil.
- ☐ 5mm planning 16A TV-10 ideally form high inrush current breaking application for UPS, power supply and Heading Element control of Home Appliances, and lighting controls.
- ☐ High dielectric strength 5000V between coil and contacts, 1000V between contacts.
- ☐ Optional for sealed flux free & sealed washable types.
- ☐ Complies with RoHS-Directive 2011/65/EU.

Type List

Terminal style	Contact form	UL Insulation system approval	Designation (provided with)		
			Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	----------	793-P-1A	793-P-1A-V	793-P-1A-S
		F	793-P-1A-F	793-P-1A-F-V	793-P-1A-F-S
	1B (SPNC)	----------	793-P-1B	793-P-1B-V	793-P-1B-S
		F	793-P-1B-F	793-P-1B-F-V	793-P-1B-F-S
	1C (SPDT)	----------	793-P-1C	793-P-1C-V	793-P-1C-S
		F	793-P-1C-F	793-P-1C-F-V	793-P-1C-F-S

Ordering Information

793	-	P	-	1A	-	☐	-	☐	☐
1		2		3		4		5	6

1. 793 -- Basic series designation

2. P -- PCB terminal

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

4. Blank -- Standard type
   F -- Class F

5. Blank -- Flux tight
   V -- Sealed type
   S -- Sealed type washable

6. ☐ -- Coil voltage (please refer to the coil rating data for the availability)

Contact Rating

Resistive load	16A 240VAC

Coil Rating (DC)

◆ Standard Type

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	234	12.8	160 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 0.7W
5	139	36				
6	118	51				
9	78	116				
12	58	206				
18	39	463				
24	29	825				
48	15	3,300				
60	11.7	5,100				
100	7.5	13,400				

◆ High Sensitivity Type

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	176	17	170 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 0.53W
5	105	47.7				
6	88	68				
9	60	150				
12	44	275				
18	29	618				
24	22	1,100				
48	11	4,400				
60	8.8	6,800				

Specification

Contact material	AgSnO alloy	
Contact resistance (1)	100mΩ Max. (at 1A/6VDC by 4-wire resistance measurement)	
Operate time (1)	20ms Max.	
Release time (1)	10ms Max.	
Insulation resistance (1)	1000MΩ Min. (DC 500V)	
Dielectric strength (1)	Between open contact : AC 1000V , 50/60Hz 1 min.	
	Between contact and coil : AC 4000V , 50/60Hz 1 min. (for 1B,1C) : AC 5000V , 50/60Hz 1 min. (for 1A)	
Vibration resistance	Operating extremes	10～55Hz , amplitude 1.5 mm
	Damage limits	10～55Hz , 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 1,800 operations/hr)
Operating ambient temperature	-40～+70°C (no freezing)	
Weight	Approx. 17 g	

Note：(1) Initial value. Operate and release time excluding contact bounce.

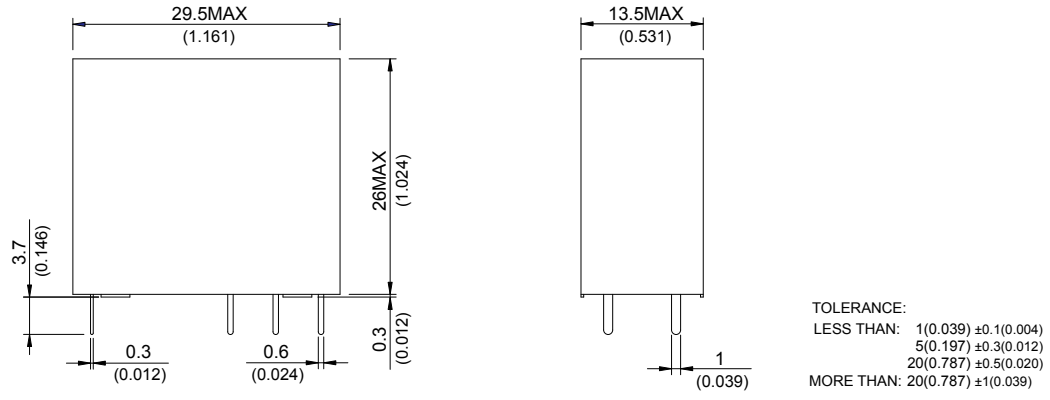
Safety Approval

Certified	UL / CUL	CSA	TUV
File No.	E88991	1616947	R50056914

Safety Approval Rating

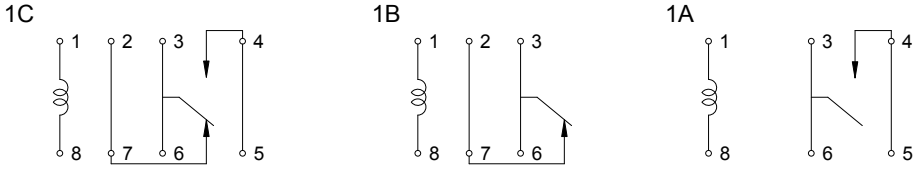
UL / CUL、CSA		TUV
NO	NC	
20A 277VAC 25A 125VAC TV-10 20A 30VDC 1/2HP 250/125VAC 8A FLA, 250VAC	16A 250VAC 25A 125VAC 16A 30VDC 1/2HP 250/125VAC 8A FLA, 250VAC	16A 250VAC 6A 125VAC cos ϕ 0.5 16A 30VDC 8A 250VAC cos ϕ 0.4

Outline Dimensions



Wiring Diagram

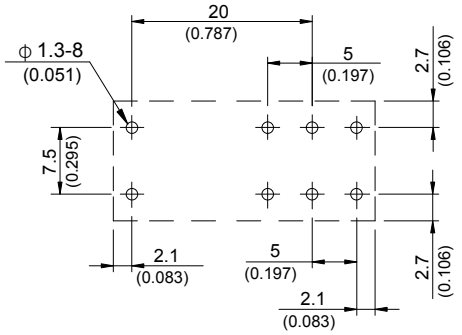
BOTTOM VIEW



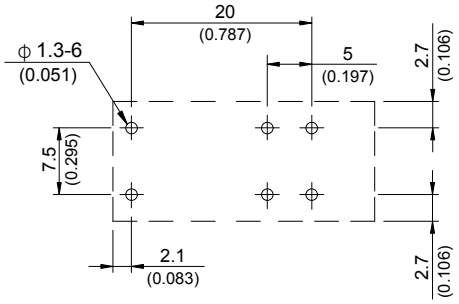
PC Board Layout

BOTTOM VIEW

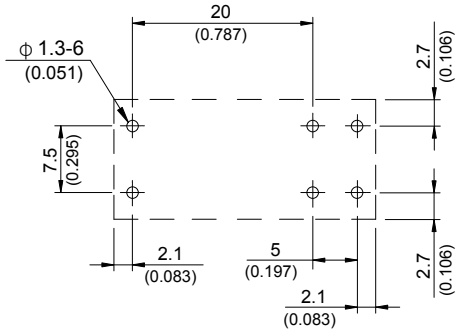
1C



1B

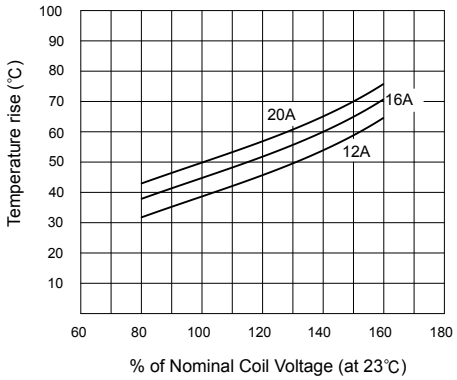


1A

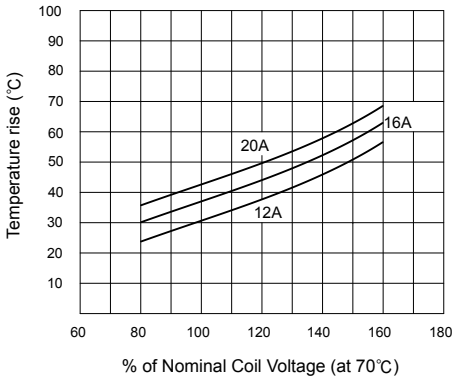


Engineering Data

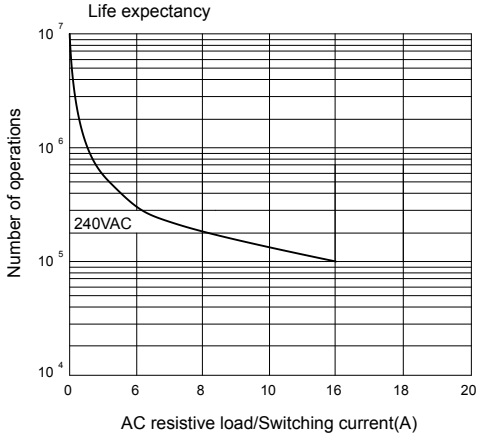
Coil temperature rise (Standard type)



Coil temperature rise (Standard type)



Life expectancy



Operate time/Release time (Standard type)