793

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.
- 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)	----------	793-P-1A	793-P-1A-S
		F	793-P-1A-F	793-P-1A-F-S
	1B (SPNC)	----------	793-P-1B	793-P-1B-S
		F	793-P-1B-F	793-P-1B-F-S
	1C (SPDT)	----------	793-P-1C	793-P-1C-S
		F	793-P-C-F	793-P-C-F-S

Ordering Information

793	-	P	-	1A	-	F	-	S	XXVDC
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
   S -- Sealed type washable

6. XXVDC -- 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 23ºC (mA)	Coil resistance ±10 % at 23ºC (Ω)	Max. continuous voltage at 70ºC	Pick up voltage(Max) at 23ºC	Drop out voltage(Min) at 23ºC	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 Sensitive Type

Rated voltage (V)	Rated current ±10 % at 23ºC (mA)	Coil resistance ±10 % at 23ºC (Ω)	Max. continuous voltage at 70ºC	Pick up voltage(Max) at 23ºC	Drop out voltage(Min) at 23ºC	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				

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Specification

Contact material	AgSnO alloy	
Contact resistance(1)	100mΩ Max.	
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	100,000operations (frequency 1,800 operations/hr)
Operating ambient temperature	-40~+70ºC (no freezing)	
Weight	Approx. 17 g	

Note: (1) initial value

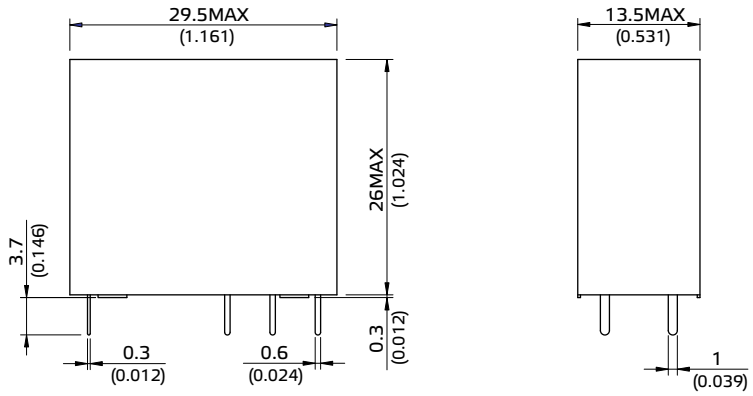
Safety Approval

Certified	UL	CSA	TUV
File No.	E88991	1616947	R50056914

Safety Approval Rating

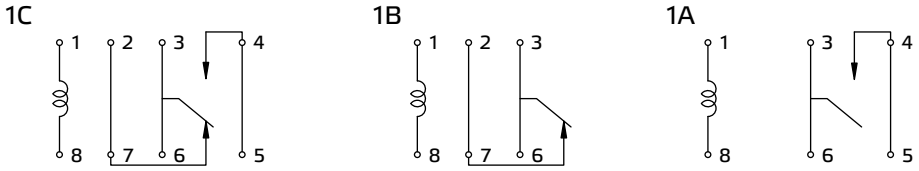
UL 、CSA		TUV
NO	NC	
20A 277VAC 25A 125VAC TV-10 20A 30VDC 1/2HP 250/125VAC 8A FLA, 250VAC	16A 250VAC 25A 125VAC 16A 30VDC 1/2HP 250/125VAC 8A FLA, 250VAC	16A 250VAC 6A 125VAC cos ϕ 0.5 16A 30VDC 8A 250VAC cos ϕ 0.4

Outline Dimensions



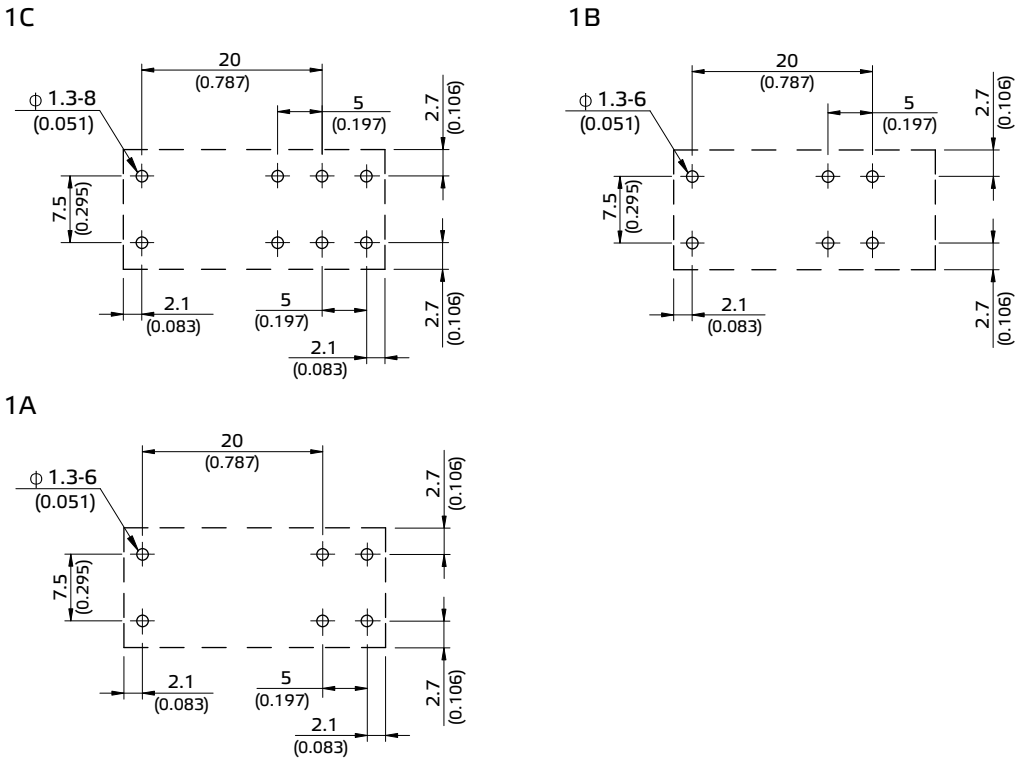
Wiring Diagram

BOTTOM VIEW



PC Board Layout

BOTTOM VIEW



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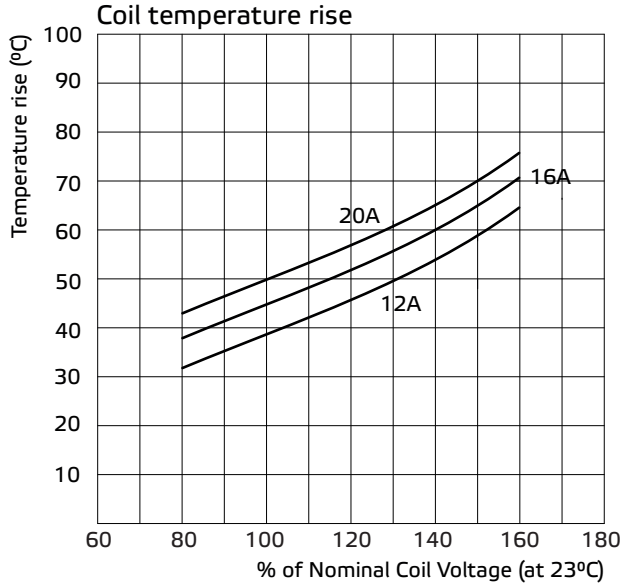
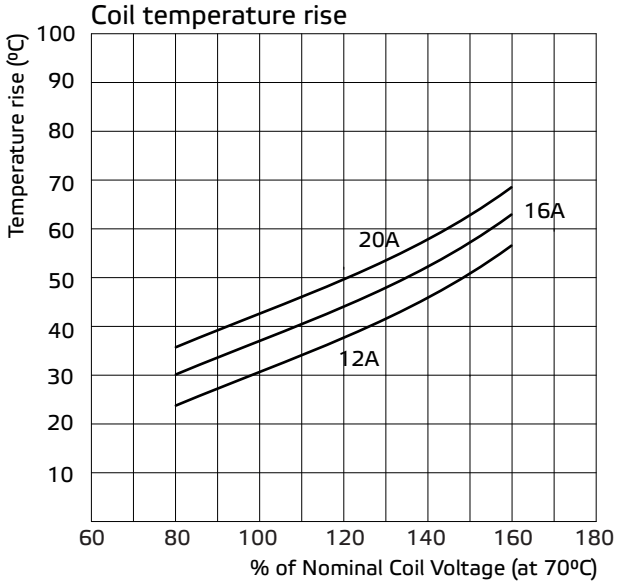
Engineering Data

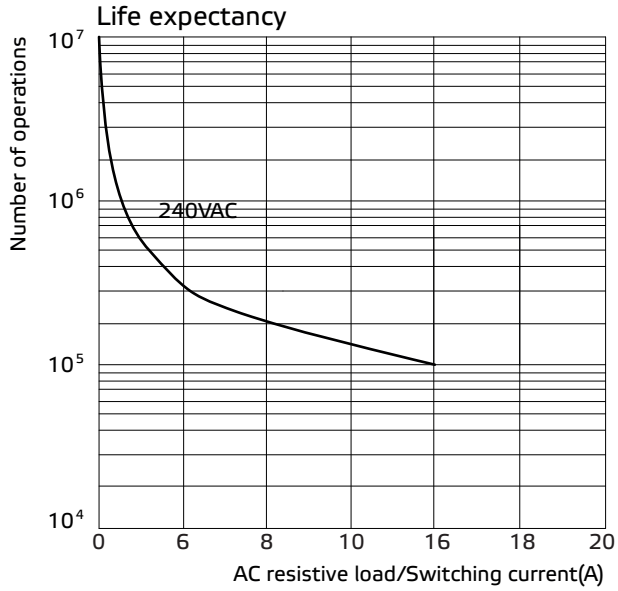
Coil temperature rise



Coil temperature rise



Life expectancy



Operate time/Release time