

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 2002/95/EC.

»» 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 - F - S
 1 2 3 4 5

- | | |
|--|---|
| <p>1. 793 -- Basic series designation</p> <p>2. P -- PCB terminal</p> <p>3. 1A -- Single pole normally open 1B -- Single pole normally closed 1C -- Single pole double throw</p> | <p>4. Blank -- Standard type F -- Class F</p> <p>5. Blank -- Flux tight V -- Sealed type S -- Sealed type washable</p> |
|--|---|

»» Contact Rating

| | |
|----------------|------------|
| Resistive load | 16A 240VAC |
|----------------|------------|

»» Coil Rating (DC)

◆ Standard Type

| Rated voltage (V) | Rated current $\pm 10\%$ at 23 °C (mA) | Coil resistance $\pm 10\%$ 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 $\pm 10\%$ at 23 °C (mA) | Coil resistance $\pm 10\%$ 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⁾ | 100m Ω Max. | |
| Operate time ⁽¹⁾ | 20ms Max. | |
| Release time ⁽¹⁾ | 10ms Max. | |
| Insulation resistance ⁽¹⁾ | 1000M Ω 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

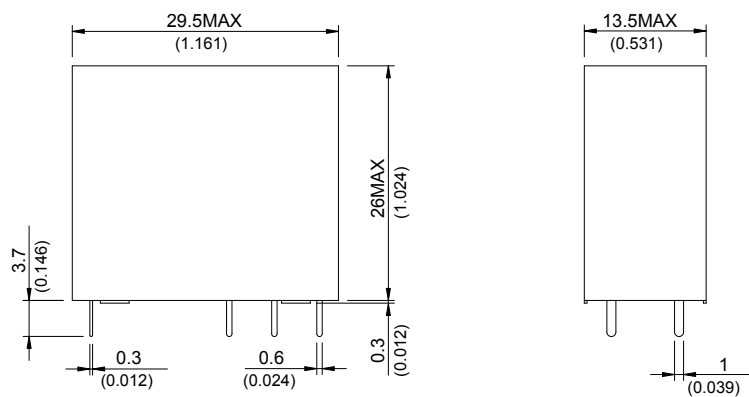
»» Safety Approval

| Certified | UL | CSA | TUV |
|-----------|--------|---------|-----------|
| File No. | E88991 | 1616947 | R50056914 |

»» Safety Approval Rating

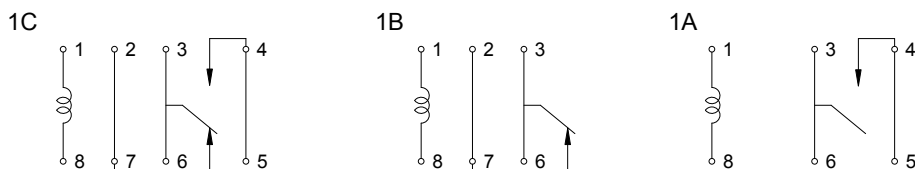
| UL \ CSA | | TUV |
|------------------|------------------|---------------------|
| NO | NC | |
| 20A 277VAC | 16A 250VAC | 16A 250VAC |
| 25A 125VAC | 25A 125VAC | 6A 125VAC cos φ 0.5 |
| TV-10 | 16A 30VDC | 16A 30VDC |
| 20A 30VDC | 1/2HP 250/125VAC | 8A 250VAC cos φ 0.4 |
| 1/2HP 250/125VAC | 8A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

»» Outline Dimensions



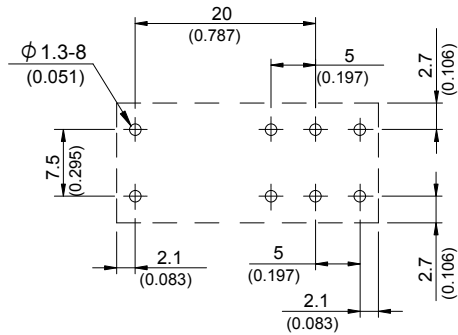
»» Wiring Diagram

BOTTOM VIEW

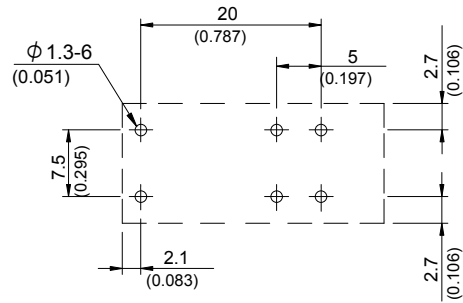


»» PC Board Layout BOTTOM VIEW

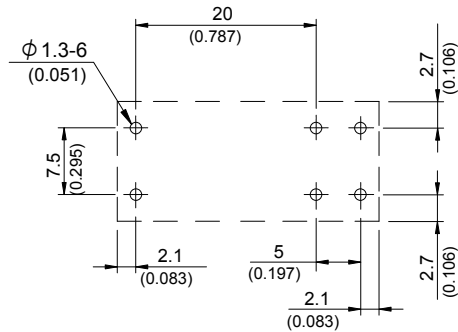
1C



1B



1A



»» Engineering Data

