

891



»» Features

- 25A miniature general purpose Power Relay.
- With or without quick terminal & PCB terminal.
- CSA/CUS, TUV,UL/CUL approved.
- Designed for compressor load switching application and office equipment of motor control or lamp load switching.
- Comply with RoHS-Directive 2002/95/EC.

»» Type List

| Terminal style | Contact form | Designation |
|------------------------------------|--------------|-------------|
| WP (Quick terminal & PCB terminal) | SPNO | 891WP-1A-C |
| P (PCB terminal) | SPNO | 891P-1A-C |

»» Ordering Information

891 WP - 1A - F - C
 1 2 3 4 5

- | | | | |
|--------|-----------------------------------|----------|------------------|
| 1. 891 | -- Basic series designation | 4. Blank | -- Standard type |
| | | F | -- Class F |
| 2. P | -- PCB terminal | | |
| WP | -- Socket terminal & PCB terminal | 5. C | -- Flux tight |
| 3. 1A | -- Single pole normally open | | |

»» Contact Rating

| | |
|----------------------------------|--|
| Resistive load | 25A 250VAC |
| Inductive load / Compressor load | Inrush 80A 240VAC $\cos\phi 0.7$ Steady state 20A 240VAC $\cos\phi 0.9$ |

»» 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 |
|-------------------|---------------------------------------|---|---------------------------------|------------------------------|-------------------------------|------------------------------------|
| 5 | 180 | 27.8 | 150 % of rated voltage | 75 % of rated voltage | 10 % of rated voltage | approx. 0.9W |
| 6 | 150 | 40 | | | | |
| 9 | 100 | 90 | | | | |
| 12 | 75 | 160 | | | | |
| 24 | 38 | 640 | | | | |
| 48 | 19 | 2560 | | | | |

»» Specification

| | | |
|--------------------------------------|--------------------------|--|
| Contact material | AgSnO alloy | |
| Contact resistance ⁽¹⁾ | 100mΩ Max. | |
| Operate time ⁽¹⁾ | 20ms Max. | |
| Release time ⁽¹⁾ | 10ms Max. | |
| Insulation resistance ⁽¹⁾ | 1000 MΩ Min. (DC 500V) | |
| Dielectric strength ⁽¹⁾ | Between open contact | : AC 1000V , 50/60Hz 1 min. |
| | Between contact and coil | : AC 4500V , 50/60Hz 1 min. |
| Vibration resistance | Operating extremes | 10~55Hz , amplitude 1.5 mm |
| | Damage limits | 10~55Hz , amplitude 2.0 mm |
| Shock resistance | Operating extremes | 10G |
| | Damage limits | 100G |
| Life expectancy | Mechanical | 5,000,000 operations (frequency 18,000 operations/hr) |
| | Electrical | 100,000 operations (frequency 360 operations/hr) |
| Operating ambient temperature | -40~+ 85°C (no freezing) | |
| Weight | Approx. 22g | |

Note : (1) initial value

»» Safety Approval

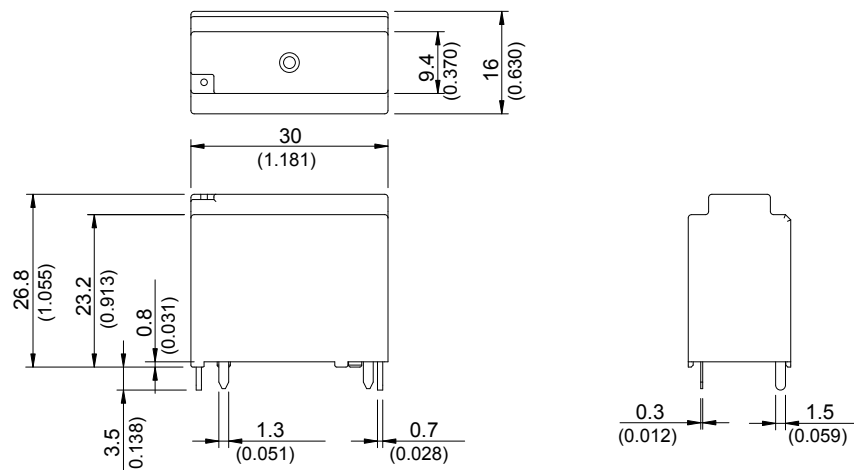
| Certified | CSA / CUS | TUV | UL / CUL |
|-----------|-----------|-------------|----------|
| File No. | 1165173 | R3-50003966 | E88991 |

»» Safety Approval Rating

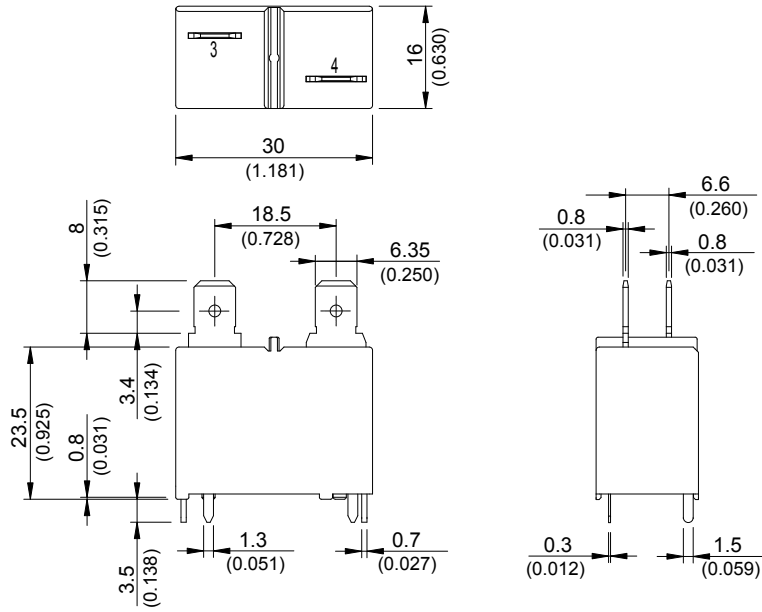
| CSA / CUS | TUV | UL / CUL |
|--------------------------------|-----------------------------------|---|
| 25A 277VAC 1.5HP 125/250VAC | 25A 250VAC 20A 250VAC cos φ0.7 | 25A 277VAC 1.5HP 125VAC/250VAC 18FLA/98LRA 240VAC |

»» Outline Dimensions

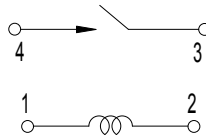
◆ 891P



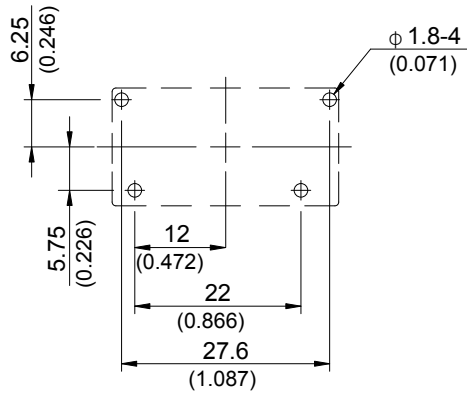
◆ 891WP



»» Wiring Diagram
BOTTOM VIEW



»» PC Board Layout
BOTTOM VIEW



»» Engineering Data

