# 892

## Features

- ☐ 10mm slim miniature PCB Power Relay.
- ☐ UL/CUL、CSA/CUS、TUV、VDE approved.
- ☐ High CTI 250 material (VDE and E version).
- ☐ High sensitivity：200 mW & 400mW.
- ☐ High surge voltage：3,000 V between contacts and coil.
- ☐ Comply with RoHS-Directive 2002/95/EC.

## Type List

◆Standard Type

| Terminal style | Contact form | UL Insulation system approval | Designation (provided with) | | |
|---|---|---|---|---|---|
| | | | Flux tight | Sealed type | Sealed type washable |
| PCB terminal | 1A (SPNO) | ---------- | 892-1AC-C | 892-1AC-V | 892-1AC-S |
| | | F | 892-1AC-F-C | 892-1AC-F-V | 892-1AC-F-S |
| | | ---------- | 892-1AH-C | 892-1AH-V | 892-1AH-S |
| | | F | 892-1AH-F-C | 892-1AH-F-V | 892-1AH-F-S |
| | 1C (SPDT) | ---------- | 892-1CC-C | 892-1CC-V | 892-1CC-S |
| | | F | 892-1CC-F-C | 892-1CC-F-V | 892-1CC-F-S |
| | | ---------- | 892-1CH-C | 892-1CH-V | 892-1CH-S |
| | | F | 892-1CH-F-C | 892-1CH-F-V | 892-1CH-F-S |

◆High Power Type

| | | | | | |
|---|---|---|---|---|---|
| PCB terminal | 1A (SPNO) | ---------- | 892H-1AC-C | 892H-1AC-V | 892H-1AC-S |
| | | F | 892H-1AC-F-C | 892H-1AC-F-V | 892H-1AC-F-S |
| | | ---------- | 892H-1AH-C | 892H-1AH-V | 892H-1AH-S |
| | | F | 892H-1AH-F-C | 892H-1AH-F-V | 892H-1AH-F-S |
| | 1C (SPDT) | ---------- | 892H-1CC-C | 892H-1CC-V | 892H-1CC-S |
| | | F | 892H-1CC-F-C | 892H-1CC-F-V | 892H-1CC-F-S |
| | | ---------- | 892H-1CH-C | 892H-1CH-V | 892H-1CH-S |
| | | F | 892H-1CH-F-C | 892H-1CH-F-V | 892H-1CH-F-S |

◆High Sensitivity Type

| | | | | | |
|---|---|---|---|---|---|
| PCB terminal | 1A (SPNO) | ---------- | 892N-1AC-C | 892N-1AC-V | 892N-1AC-S |
| | | F | 892N-1AC-F-C | 892N-1AC-F-V | 892N-1AC-F-S |
| | | ---------- | 892N-1AH-C | 892N-1AH-V | 892N-1AH-S |
| | | F | 892N-1AH-F-C | 892N-1AH-F-V | 892N-1AH-F-S |
| | 1C (SPDT) | ---------- | 892N-1CC-C | 892N-1CC-V | 892N-1CC-S |
| | | F | 892N-1CC-F-C | 892N-1CC-F-V | 892N-1CC-F-S |
| | | ---------- | 892N-1CH-C | 892N-1CH-V | 892N-1CH-S |
| | | F | 892N-1CH-F-C | 892N-1CH-F-V | 892N-1CH-F-S |

## Ordering Information

892 H N - 1AC - F - C E

1 2 3 4 5 6 7

1. 892 -- Basic series designation

2. Blank -- Standard type
   H -- High power type

3. Blank -- Standard type
   N -- High sensitivity type

4. 1AC -- Single pole normally open、Contact material AgNi
   1BC -- Single pole normally closed、Contact material AgNi
   1CC -- Single pole double throw、Contact material AgNi
   1AH -- Single pole normally open、Contact material AgSnO
   1BH -- Single pole normally closed、Contact material AgSnO
   1CH -- Single pole double throw、Contact material AgSnO

5. Blank -- Standard type
   F -- Class F

6. C -- Flux tight
   V -- Sealed type
   S -- Sealed type washable

7. Blank -- Standard type
   E -- CTI 250V

## Contact Rating

| Type | 892 | 892H |
|---|---|---|
| Resistive load | NO / NC：5A/3A 240VAC<br>NO / NC：7A/3A 120VAC | NO / NC：10A/5A 120VAC (50,000 ops.)<br>NO / NC：7A/5A 240VAC |
| Max. switching current | NO / NC：7A/3A | NO / NC：10A/5A |
| Max. switching voltage | 277VAC | 277VAC |
| Max. switching capacity | NO / NC：1200VA/720VA | NO / NC：1680VA/1200VA |

## 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 85˚C | Pick up voltage(Max) at 23˚C | Drop out voltage(Min) at 23˚C | Power consumption at rated voltage |
|---|---|---|---|---|---|---|
| 3 | 133.3 | 22.5 | 160 % of rated voltage | 80 % of rated voltage (H type only)<br>75 % of rated voltage | 5 % of rated voltage | approx. 0.4W |
| 5 | 80 | 62.5 | | | | |
| 6 | 66.7 | 90 | | | | |
| 9 | 44.4 | 202.5 | | | | |
| 12 | 33.3 | 360 | | | | |
| 18 | 22.2 | 810 | | | | |
| 24 | 16.7 | 1440 | | | | |
| 36 | 11.1 | 3240 | | | | |
| 48 | 8.3 | 5760 | | | | |
| 60 | 6.7 | 9000 | | | | |

◆High Sensitivity Type

| Rated voltage (V) | Rated current ±10 % at 23°C (mA) | Coil resistance ±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 |
|---|---|---|---|---|---|---|
| 3 | 66.7 | 45 | 170 % of rated voltage | 80 % of rated voltage (HN type or 1C type only)<br>75 % of rated voltage | 5 % of rated voltage | approx. 0.2W |
| 5 | 40.0 | 125 | | | | |
| 6 | 33.3 | 180 | | | | |
| 9 | 22.2 | 405 | | | | |
| 12 | 16.7 | 720 | | | | |
| 18 | 11.1 | 1620 | | | | |
| 24 | 8.3 | 2880 | | | | |
| 36 | 5.6 | 6480 | | | | |

## Specification

| | | |
|---|---|---|
| Contact material | AgNi / AgSnO alloy | |
| Contact resistance (1) | 100mΩ Max. | |
| Operate time (1) | 10ms Max. | |
| Release time (1) | 5ms 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. | |
| Vibration resistance | Operating extremes | 10～55Hz , amplitude 1.5 mm |
| | Damage limit | 10～55Hz , amplitude 1.5 mm |
| Shock resistance | Operating extremes | 30G |
| | Damage limits | 100G |
| Life expectancy | Mechanical | 10,000,000 operations (frequency 18,000 operations/hr) |
| | Electrical | 100,000 operations (frequency 900 operations/hr) |
| Operating ambient temperature | -40°C～+85°C (no freezing) | |
| Weight | Approx. 8g | |

Note : (1) initial value

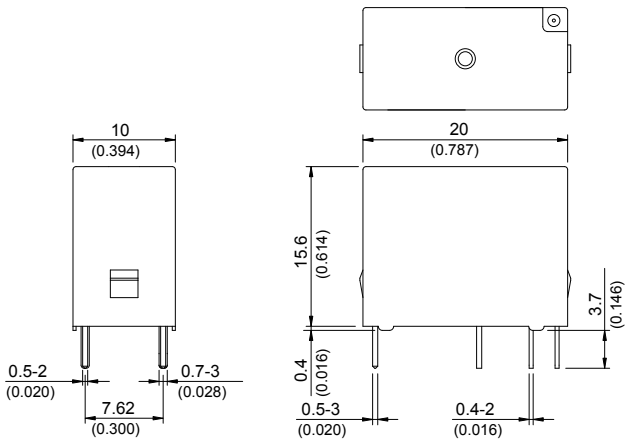
## Safety Approval

| Certified | CSA / CUS | TUV | VDE | UL / CUL |
|---|---|---|---|---|
| File No. | 1245129 | R 50006512 | 40006318 | E88991 |

## Safety Approval Rating

| CSA / CUS | | TUV | |
|---|---|---|---|
| 892 | 892H | 892 | 892H |
| NO：7A 125VAC<br>5A 277VAC<br>NC：3A 125VAC<br>3A 277VAC | NO：10A 125VAC<br>7A 277VAC<br>TV-3<br>NC：5A 125VAC<br>5A 277VAC | NO：7A 120VAC<br>5A 240VAC<br>NC：3A 120VAC<br>3A 240VAC | NO：10A 120VAC<br>7A 240VAC<br>NC：5A 120VAC<br>5A 240VAC |
| **VDE** | | **UL /CUL** | |
| 892 | 892H | 892 | 892H |
| NO：5A 250VAC T85<br>NC：3A 250VAC T85 | NO：7A 250VAC T85<br>NC：5A 250VAC T85 | NO：7A 125VAC<br>5A 277VAC<br>1/10HP 125VAC<br>1/6HP 277VAC<br>NC：3A 125VAC<br>3A 277VAC | NO：10A 125VAC<br>7A 277VAC<br>NC：5A 125VAC<br>5A 277VAC<br>NO/NC：4FLA/4LRA<br>120VAC |

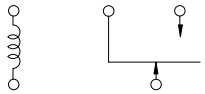
## Outline Dimensions



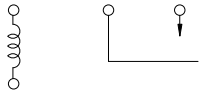

## Wiring Diagram

BOTTOM VIEW

1C

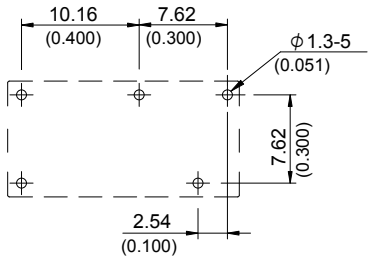


1A



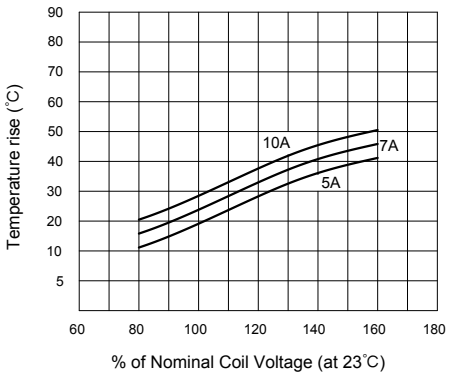
## PC Board Layout

BOTTOM VIEW

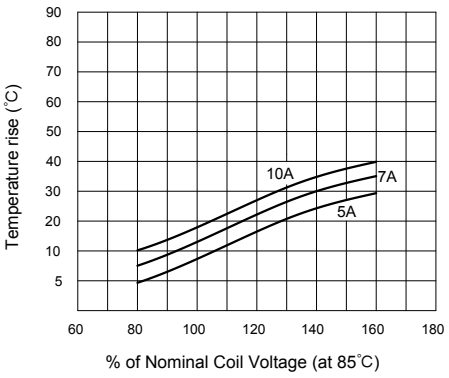


## Engineering Data

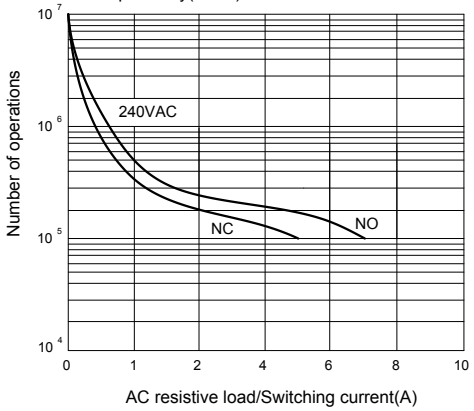
Coil temperature rise



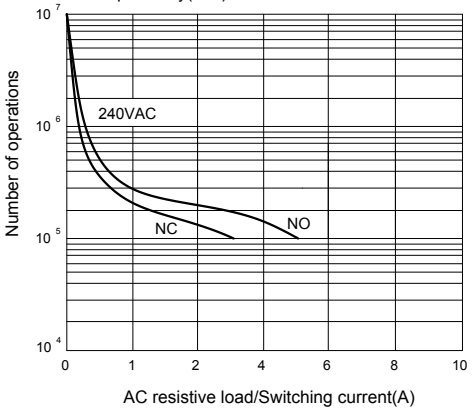

Coil temperature rise



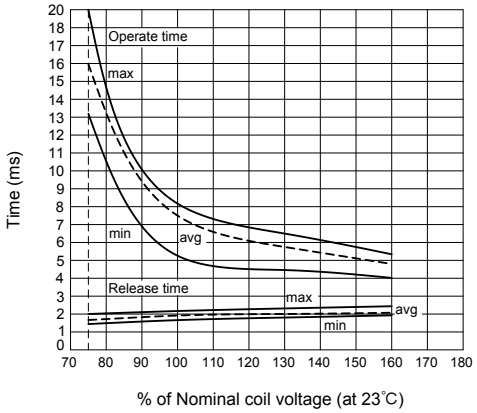

Life expectancy(892H)




Life expectancy(892)




Operate time/Release time






—— All specifications subject to change. Please contact Song Chuan for update. ——