



## »» 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 8,000 V between contacts and coil (1.2×50μs).
- ☐ Comply with RoHS-Directive 2011/65/EU.

## »» 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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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 ☐ ☐ - 1AC - ☐ - C ☐ ☐  
 1 2 3 4 5 6 7 8

- |          |                                                           |                             |                                                                                |
|----------|-----------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------|
| 1. 892   | -- Basic series designation                               | 1BH                         | -- Single pole normally closed 、<br>Contact material AgSnO                     |
| 2. Blank | -- Standard type                                          | 1CH                         | -- Single pole double throw 、<br>Contact material AgSnO                        |
| H        | -- High power type                                        |                             |                                                                                |
| 3. Blank | -- Standard type                                          | 5. Blank                    | -- Standard type                                                               |
| N        | -- High sensitivity type                                  | F                           | -- Class F                                                                     |
| 4. 1AC   | -- Single pole normally open 、 Contact<br>material AgNi   | 6. C                        | -- Flux tight                                                                  |
| 1BC      | -- Single pole normally closed 、 Contact<br>material AgNi | V                           | -- Sealed type                                                                 |
| 1CC      | -- Single pole double throw 、 Contact<br>material AgNi    | S                           | -- Sealed type washable                                                        |
| 1AH      | -- Single pole normally open 、 Contact<br>material AgSnO  | 7. Blank                    | -- Standard type                                                               |
|          |                                                           | E                           | -- CTI 250V                                                                    |
|          |                                                           | 8. <input type="checkbox"/> | -- Coil voltage (please refer to the<br>coil rating data for the availability) |

## »» 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<br>(V) | Rated current<br>±10 % at 23°C<br>(mA) | Coil resistance<br>±10 % at 23°C<br>(Ω) | Max. continuous<br>voltage<br>at 85°C | Pick up<br>voltage(Max.)<br>at 23°C       | Drop out<br>voltage(Min.)<br>at 23°C | Power consumption<br>at rated<br>voltage |
|----------------------|----------------------------------------|-----------------------------------------|---------------------------------------|-------------------------------------------|--------------------------------------|------------------------------------------|
| 3                    | 133.3                                  | 22.5                                    | 160 % of<br>rated<br>voltage          | 80 % of rated<br>voltage<br>(H type only) | 5 % of<br>rated<br>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<br>(V) | Rated current<br>±10 % at 23°C<br>(mA) | Coil resistance<br>±10 % at 23°C<br>(Ω) | Max. continuous<br>voltage<br>at 85°C | Pick up<br>voltage(Max.)<br>at 23°C                      | Drop out<br>voltage(Min.)<br>at 23°C | Power consumption<br>at rated<br>voltage |
|----------------------|----------------------------------------|-----------------------------------------|---------------------------------------|----------------------------------------------------------|--------------------------------------|------------------------------------------|
| 3                    | 66.7                                   | 45                                      | 170 % of<br>rated<br>voltage          | 80 % of rated<br>voltage<br>(HN type or<br>1C type only) | 5 % of<br>rated<br>voltage           | approx. 0.2W                             |
| 5                    | 40.0                                   | 125                                     |                                       |                                                          |                                      |                                          |
| 6                    | 33.3                                   | 180                                     |                                       |                                                          |                                      |                                          |
| 9                    | 22.2                                   | 405                                     |                                       |                                                          |                                      |                                          |
| 12                   | 16.7                                   | 720                                     |                                       | 75 % of<br>rated<br>voltage                              |                                      |                                          |
| 18                   | 11.1                                   | 1620                                    |                                       |                                                          |                                      |                                          |
| 24                   | 8.3                                    | 2880                                    |                                       |                                                          |                                      |                                          |
| 36                   | 5.6                                    | 6480                                    |                                       |                                                          |                                      |                                          |

### »» Specification

|                                      |                                          |                                                           |
|--------------------------------------|------------------------------------------|-----------------------------------------------------------|
| Contact material                     | AgNi / AgSnO alloy                       |                                                           |
| Contact resistance <sup>(1)</sup>    | 100mΩ Max. (1A/6VDC by 4 pipes mΩ meter) |                                                           |
| Operate time <sup>(1)</sup>          | 10ms Max.                                |                                                           |
| Release time <sup>(1)</sup>          | 5ms Max.                                 |                                                           |
| Insulation resistance <sup>(1)</sup> | 1000MΩ Min. (DC 500V)                    |                                                           |
| Dielectric strength <sup>(1)</sup>   | 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<br>(frequency 18,000 operations/hr) |
|                                      | Electrical                               | 100,000 operations<br>(frequency 900 operations/hr)       |
| Operating ambient temperature        | -40°C ~ +85°C (no freezing)              |                                                           |
| Weight                               | Approx. 8g                               |                                                           |

Note : (1) initial value

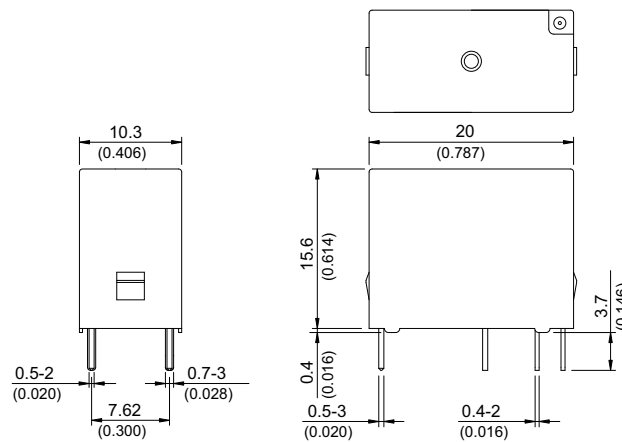
### »» Safety Approval

| 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

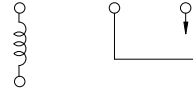
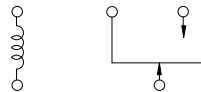


### »» Wiring Diagram

BOTTOM VIEW

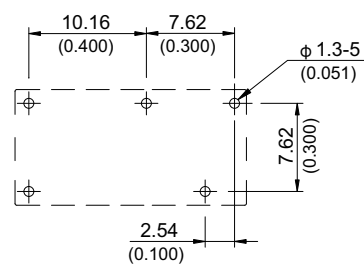
1C

1A



### »» PC Board Layout

BOTTOM VIEW



## »» Engineering Data

