



## »» 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                               | 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                                                |

## 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>$\pm 10\%$ at 23°C<br>(mA) | Coil resistance<br>$\pm 10\%$ at 23°C<br>( $\Omega$ ) | 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                                                   |                                       |                                                          |                                     |                                          |
| 18                   | 11.1                                        | 1620                                                  |                                       | 75 % of<br>rated<br>voltage                              |                                     |                                          |
| 24                   | 8.3                                         | 2880                                                  |                                       |                                                          |                                     |                                          |
| 36                   | 5.6                                         | 6480                                                  |                                       |                                                          |                                     |                                          |

## »» Specification

|                                      |                               |                                                           |
|--------------------------------------|-------------------------------|-----------------------------------------------------------|
| Contact material                     | AgNi / Ag SnO alloy           |                                                           |
| Contact resistance <sup>(1)</sup>    | 100m $\Omega$ Max.            |                                                           |
| Operate time <sup>(1)</sup>          | 10ms Max.                     |                                                           |
| Release time <sup>(1)</sup>          | 5ms Max.                      |                                                           |
| Insulation resistance <sup>(1)</sup> | 1000M $\Omega$ 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

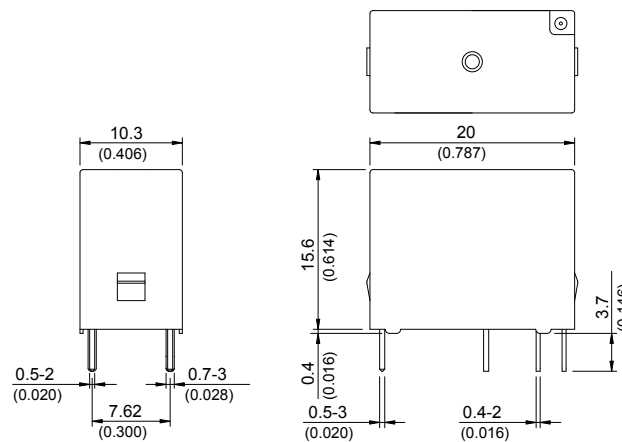
## »» Safety Approval

| 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

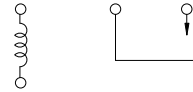
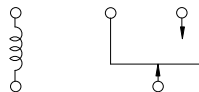


### »» Wiring Diagram

BOTTOM VIEW

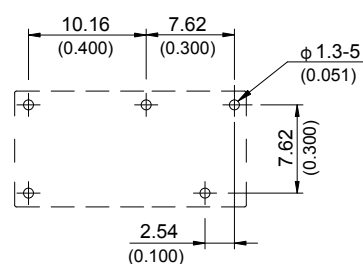
1C

1A



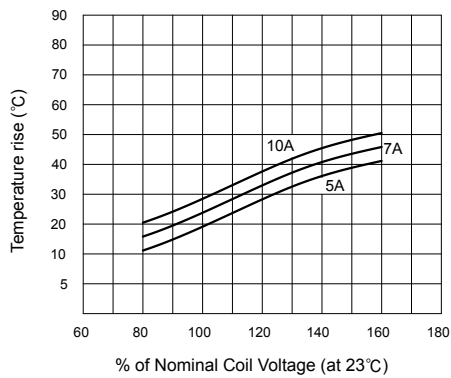
### »» PC Board Layout

BOTTOM VIEW

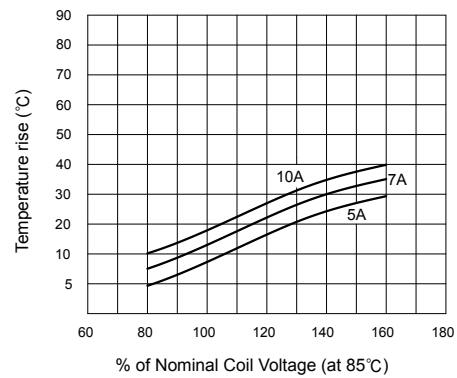


## » Engineering Data

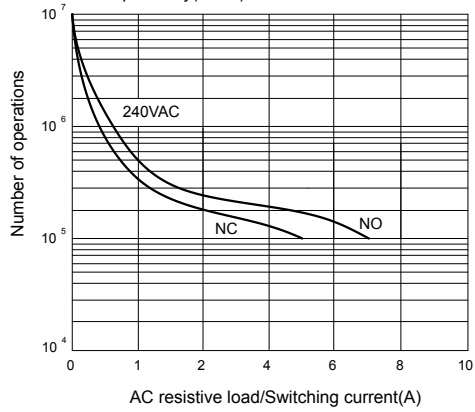
Coil temperature rise



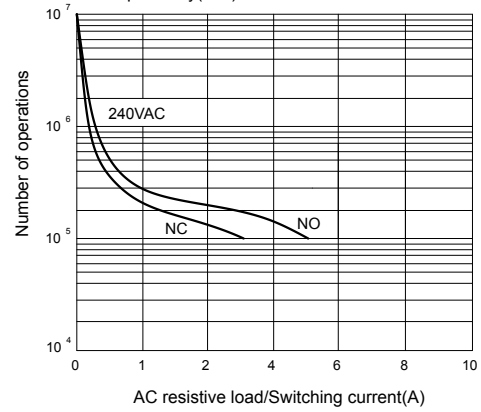
Coil temperature rise



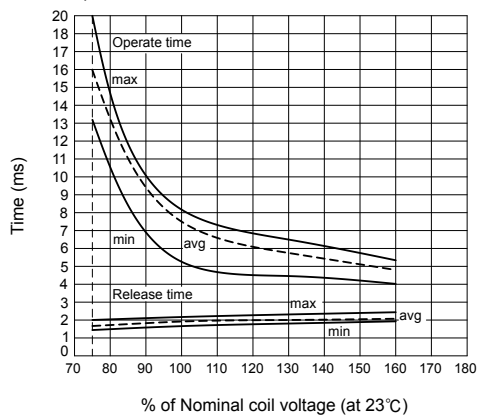
Life expectancy(892H)



Life expectancy(892)



Operate time/Release time



## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9