

# S4H RELAY SHORI

## ◆ Features

- Slim type and small occupying area can be applied in high density PC Board mounting technique.
- 10A switching capability.
- Transparent sealed available.



## ◆ Coil Data [at 20°C]

- High sensitivity Type

| Rated voltage (V) | Coil Resistance $\pm 10\%$ ( $\Omega$ ) | Rated Current $\pm 10\%$ (mA) | Pick up Voltage (Max) | Drop out Voltage (Min) | Max continuous Voltage    | Power consumption At rated Voltage |
|-------------------|---|-------------------------------|-----------------------|------------------------|---------------------------|------------------------------------|
| 3                 | 17                                      | 180                           | 80% of rated voltage  | 5% of rated voltage    | 130% Max of Rated voltage | Approx.0.54W                       |
| 5                 | 46                                      | 108                           |                       |                        |                           |                                    |
| 6                 | 67                                      | 90                            |                       |                        |                           |                                    |
| 9                 | 150                                     | 60                            |                       |                        |                           |                                    |
| 12                | 270                                     | 45                            |                       |                        |                           |                                    |
| 24                | 1060                                    | 22.5                          |                       |                        |                           |                                    |
| 48                | 4360                                    | 11                            |                       |                        |                           |                                    |

- Standard Type

| Rated voltage (V) | Coil Resistance $\pm 10\%$ ( $\Omega$ ) | Rated Current $\pm 10\%$ (mA) | Pick up Voltage (Max) | Drop out Voltage (Min) | Max continuous Voltage    | Power consumption At rated Voltage |
|-------------------|---|-------------------------------|-----------------------|------------------------|---------------------------|------------------------------------|
| 3                 | 12.5                                    | 240                           | 80% of rated voltage  | 5% of rated voltage    | 130% Max of Rated voltage | Approx.0.72W                       |
| 5                 | 34.7                                    | 144                           |                       |                        |                           |                                    |
| 6                 | 50                                      | 120                           |                       |                        |                           |                                    |
| 9                 | 112.5                                   | 80                            |                       |                        |                           |                                    |
| 12                | 200                                     | 60                            |                       |                        |                           |                                    |
| 24                | 800                                     | 30                            |                       |                        |                           |                                    |
| 48                | 3200                                    | 15                            |                       |                        |                           |                                    |

## ◆ Contact Rating

|                |                       |
|----------------|-----------------------|
| Resistive load | 10A 250VAC, 10A 30VDC |
|----------------|-----------------------|

## ◆ Type List

| Terminal style | Contact form | Type             | Designation(provided with) |
|----------------|--------------|------------------|----------------------------|
| PCB terminal   | 1A (SPNO)    | Standard         | S4H-12V-1A                 |
|                | 1A (SPNO)    | High sensitivity | S4H-12B-1A                 |
|                | 1C(SPDT)     | Standard         | S4H-12V-1C                 |
|                | 1C(SPDT)     | High sensitivity | S4H-12B-1C                 |

# S4H RELAY SHORI

## ◆ Ordering information

S4M – 12V B– 2A

1            2            3

1. S4H -- Basic series designation.

2. 12V -- Coil Voltage (3V~48V), Standard Type

12B -- High sensitivity Type

3. 1A -- Single pole normally open

1C -- Single pole double throw

## ◆ Specification

|                               |   |   |
|-------------------------------|---|---|
| Contact material              | Ag Alloy  |   |
| Contact resistance            | 100 mΩ Max  |   |
| Operate time                  | 20 ms Max   |   |
| Release time                  | 10 ms Max   |   |
| Insulation resistance         | 1000 mΩ Min. (DC 500V)                              |   |
| Dielectric strength           | Between open contact : AC 1000V ,50/60Hz 1 min.     |   |
|                               | Between contact and coil : AC 5000V, 50/60Hz 1 min. |   |
| Vibration resistance          | Operating extremes                                  | 10~50Hz, amplitude 1.5 mm                                 |
|                               | Damage limits                                       | 10~50Hz, amplitude 1.5 mm                                 |
| Shock resistance              | Operating extremes                                  | 10G   |
|                               | Damage limits                                       | 100G  |
| Life expectancy               | Mechanical  | 10,000,000 operations<br>(frequency 18,000 operations/hr) |
|                               | Electrical  | 100,000 operations<br>(frequency 1,800 operations/hr)     |
| Operating ambient temperature | -40~+70°C(no freezing)                              |   |
| Weight                        | Approx 13g  |   |

## ◆ Safety Approval

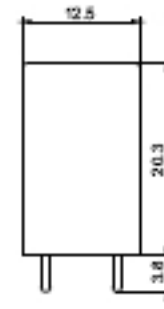
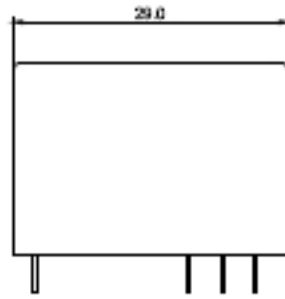
|           |         |        |
|-----------|---------|--------|
| Certified | UL/CUL  | VDE    |
| File No.  | E196079 | 131986 |

## ◆ Safety Approval Rating

|                         |
|-------------------------|
| UL/CUL                  |
| 10A 250VAC<br>10A 30VDC |

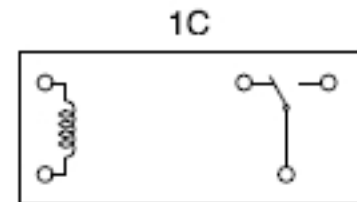
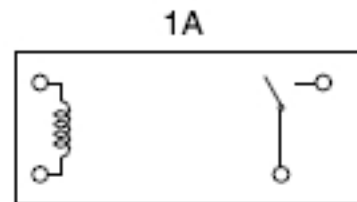
# S4H RELAY SHORI

## ◆ Outline Dimension



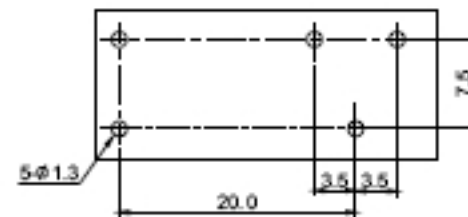
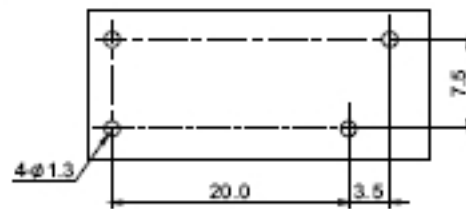
## ◆ Wiring Diagram

BOTTOM VIEW

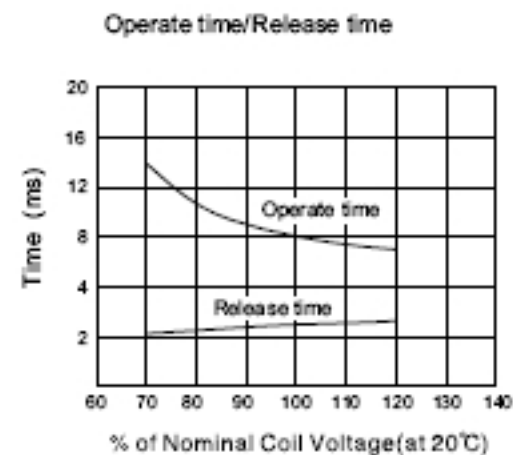
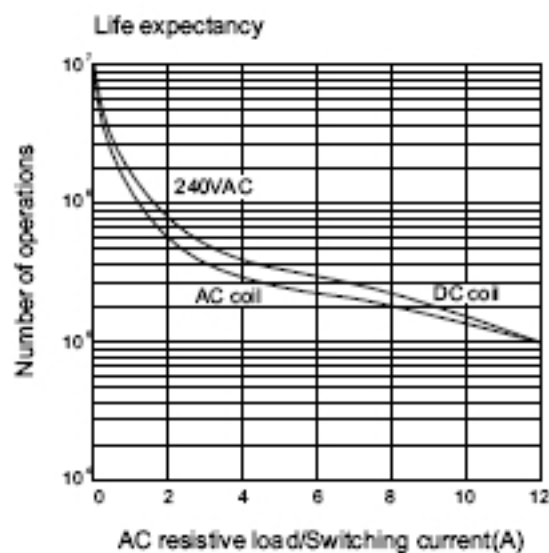
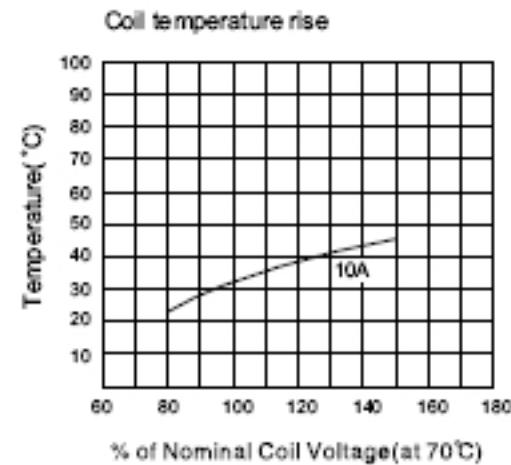
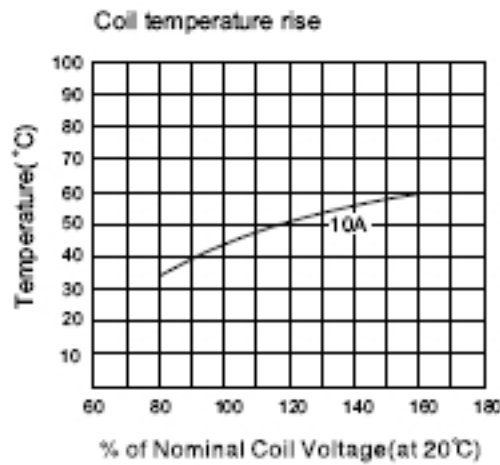


## ◆ PC BOARD LAYOUT

BOTTOM VIEW



## ◆ Engineering Data



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