

## Main Feature

1. 25Amp motor lock load.
2. Small size with high rating.
3. Single or dual version available.
4. Standard type contact form SPDT and SPST are available for customers' selection
5. High performance PCB Relay.

## Contact Rating

| Load Type              | GIN (DM)    | GIN (D)     |
|------------------------|-------------|-------------|
| Rated Load (Resistive) | 25A 16VDC   | 25A 16VDC   |
| Rated Carrying Current | 25A         | 25A         |
| Max. Allowable Voltage | DC 16V      | DC 16V      |
| Max. Allowable Current | 30A         | 30A         |
| Min. Switching Load    | 1A 6VDC     | 1A 6VDC     |
| Contact Material       | Ag Alloy    | Ag Alloy    |
| Contact Form           | SPST / DPST | SPDT / DPDT |

## Application

Power Windows, Seat adjustment, Power Doors, Sunroof, Wiper Control.

## Performance (at Initial Value)

- Contact Resistance ..... 100 mΩ Max. @1A,6VDC
- Operate Time ..... 10mSec. Max.
- Release Time ..... 10mSec. Max.
- Dielectric Strength:
  - Between Coil & Contact ..... 500VAC at 50/60 Hz for one minute.
  - Between Contacts ..... 500VAC at 50/60 Hz for one minute.
- Insulation Resistance ..... 100MΩ Min. at 500VDC.
- Max. On/Off Switching:
  - Electrical ..... 6 Cycles per Minute.
  - Mechanical ..... 300 Cycles per Minute.

- Temperature Range ..... -40~105 °C.
- Humidity Range ..... 45~80% RH.
- Coil Temperature Rise ..... 50 °C Max.
- Vibration:
  - Endurance ..... 10 to 55 Hz dual amplitude width 1.5 mm
  - Error Operation ..... 10 to 55 Hz dual amplitude width 1.5mm.
- Shock:
  - Endurance ..... 1,000 m/S<sup>2</sup>.
  - Error Operation ..... 100 m/S<sup>2</sup>.
- Life Expectancy:
  - Electrical ..... 10<sup>5</sup> Operations at Rated Resistive Load.
  - Mechanical ..... 10<sup>7</sup> Operations at No load condition.
- Weight ..... About 4 g.

## Safety Standard & Its File Number

- NIL.



## Coil Specification (at 20 °C)

| Coil Sensitivity | Nominal Voltage(VDC) | Nominal Current (mA) | Coil Resistance (W±10%) | Power Consumption (W±10%) | Pull-In Voltage (VDC) | Drop-Out Voltage (VDC) | Maximum Allowable Voltage (VDC) |
|------------------|----------------------|----------------------|-------------------------|---------------------------|-----------------------|------------------------|---------------------------------|
| GIN              | 9                    | 70.8                 | 127                     | Abt. 0.64                 | 60%                   | 5%                     | 130%                            |
|                  | 12                   | 53.3                 | 225                     |                           |                       |                        |                                 |
|                  | 24                   | 26.7                 | 900                     |                           |                       |                        |                                 |
|                  | 48                   | 16.7                 | 2880                    | Abt. 0.8                  |                       |                        |                                 |

## Ordering Information

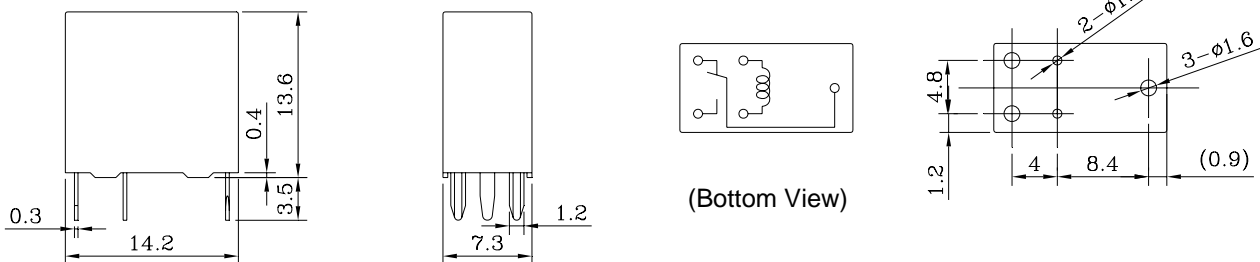
|     |      |   |    |   |   |                         |   |  |  |  |
|-----|------|---|----|---|---|-------------------------|---|--|--|--|
| GIN | -SS- | 1 | 12 | D | M |                         |   |  |  |  |
|     |      |   |    |   |   | <b>Contact Form:</b>    | <b>NIL:</b> Form C<br><b>M:</b> Form A                                      |  |  |  |
|     |      |   |    |   |   | <b>Coil Type:</b>       | <b>D:</b> Standard DC Coil  |  |  |  |
|     |      |   |    |   |   | <b>Coil Voltage:</b>    | <b>09:</b> 9V, <b>12:</b> 12V, <b>24:</b> 24V, <b>48:</b> 48V               |  |  |  |
|     |      |   |    |   |   | <b>Number of Pole:</b>  | <b>1:</b> Single Relay<br><b>2:</b> Dual Relay                              |  |  |  |
|     |      |   |    |   |   | <b>Type of Sealing:</b> | <b>SS:</b> RT II Flux Proofed Relays<br><b>SH:</b> RT III Wash Tight Relays |  |  |  |
|     |      |   |    |   |   | <b>TYPE:</b>            | <b>GIN</b>  |  |  |  |

## Classification

| Model                | GIN          |              |             |              |
|----------------------|--------------|--------------|-------------|--------------|
|                      | Single Relay |              | Dual Relay  |              |
| Single or Dual Relay |              |              |             |              |
| Contact Form         | 1C           | 1A           | 2C          | 2A           |
| Flux Proofed Relays  | GIN-SS-1□□D  | GIN-SS-1□□DM | GIN-SS-2□□D | GIN-SS-2□□DM |
| Wash Tight Relays    | GIN-SH-1□□D  | GIN-SH-1□□DM | GIN-SH-2□□D | GIN-SH-2□□DM |

Dimension ( $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , the tolerance of PCB thru hole:  $+0.1\text{mm}$ )

### Single Type



### Dual Type

