



## Main Feature

1. Low power consumption; AC/DC coil available.
2. Proper insulation distance with 5,000VAC dielectric strength.
3. UL Class F insulation available.
4. In accordance with IEC 60335-1 and IEC 60730-1.
5. Halogen Free series available.
6. Comply with RoHS and REACH regulations

## Contact Rating

| Load Type                  | AMI (A)   |
|----------------------------|-----------|
| Rated Load (Resistive)     | 8A 250VAC |
|                            | 8A 30VDC  |
| Rated Carrying Current     | 8A        |
| Max. Allowable Voltage     | AC 250V   |
|                            | DC 300V   |
| Max. Allowable Current     | 8A        |
| Max. Allowable Power Force | 2,000VA   |
|                            | 240W      |
| Contact Material           | Ag Alloy  |
| Contact Form               | DPDT      |

Max Allowable Voltage: 300VDC@0.2A

## Application

Cooking Appliance, Audio Equipment, Domestic Appliance and Controlling Equipment...etc.

## Performance (at Initial Value)

- Contact Resistance..... 100 mΩ Max.@1A,6VDC
- Operate Time..... 10mSec. Max.
- Release Time..... 5 mSec. Max.
- Dielectric Strength:
  - Between Coil & Contact.....5,000VAC at 50/60 Hz for one minute
  - Between Contacts..... 1,000VAC at 50/60 Hz for one minute
- Surge Strength:..... 10,000V (between coil & contact 1.2x50μSec.)
- Insulation Resistance..... 100MΩ Min at 500VDC
- Max. On/Off Switching:
  - Electrical.....20 Cycles per Minute
  - Mechanical.....300 Cycles per Minute
- Temperature Range.....-40~+85 °C
- Humidity Range..... 45~85% RH.
- Coil Temperature Rise..... 30 °C Max.

- Vibration:
  - Endurance..... 10 to 55 Hz dual amplitude width 1.5 mm
  - Error Operation..... 10 to 55 Hz dual amplitude width 1.5 mm
- 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 12.5 g

## Accessories & Sockets

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## Safety Standard & File Number

- UL & C-UL.....E520111

## Coil Specification (at 20 °C)

| Coil Sensitivity | Nominal Voltage (VAC/VDC) | Nominal Current (mA) |        | Coil Resistance ( $\Omega \pm 10\%$ ) | Power Consumption (DC: W; AC: VA) |      | Pull-In Voltage | Drop-Out Voltage | Maximum Allowable Voltage |
|------------------|---------------------------|----------------------|--------|---------------------------------------|-----------------------------------|------|-----------------|------------------|---------------------------|
|                  |                           | 50HZ                 | 60HZ   |                                       | 50HZ                              | 60HZ |                 |                  |                           |
| AMI DC Coil      | 6                         | 66.7                 |        | 90                                    | Abt. 0.40                         |      | 80% Maximum     | 5% Minimum       | 130%                      |
|                  | 9                         | 44.6                 |        | 202                                   |                                   |      |                 |                  |                           |
|                  | 12                        | 33.3                 |        | 360                                   |                                   |      |                 |                  |                           |
|                  | 15                        | 26.6                 |        | 560                                   |                                   |      |                 |                  |                           |
|                  | 18                        | 22.3                 |        | 810                                   |                                   |      |                 |                  |                           |
|                  | 24                        | 16.7                 |        | 1,440                                 |                                   |      |                 |                  |                           |
|                  | 48                        | 8.7                  |        | 5,520                                 |                                   |      |                 |                  |                           |
|                  | 60                        | 8.2                  |        | 7,340                                 |                                   |      |                 |                  |                           |
| 110              | 4.1                       |                      | 26,530 |                                       |                                   |      |                 |                  |                           |
| AMI AC Coil      | 24                        | 29.75                | 25.35  | 350                                   | 0.71                              | 0.61 | 80% Maximum     | 30% Minimum      | 130%                      |
|                  | 115                       | 7.65                 | 6.3    | 8,100                                 | 0.88                              | 0.73 |                 |                  |                           |
|                  | 230                       | 3.42                 | 2.72   | 32,500                                | 0.79                              | 0.63 |                 |                  |                           |

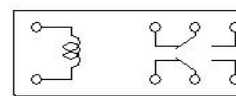
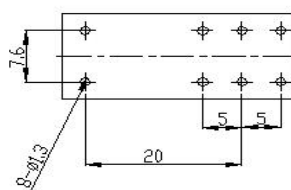
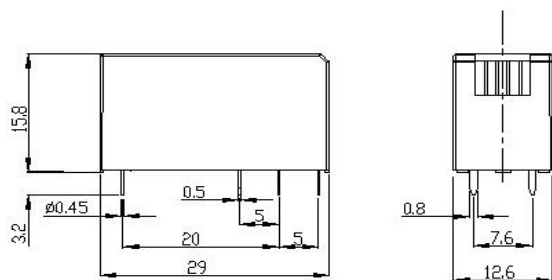
## Ordering Information

|   |   |
|---|---|
| <b>AMI</b> <b>SH</b> <b>2</b> <b>12</b> <b>D</b> <b>M</b> <b>G</b> <b>F</b> | <p><b>Insulation System:</b> Nil: Standard Class<br/>F: Class F</p> <p><b>Contact Material:</b></p> <p><b>Contact Form:</b> Nil: Form C<br/>M: Form A<br/>B: Form B</p> <p><b>Type:</b> F: New Structure DC Coil, Pinning 5.0mm, 8A<br/>D: Standard DC Coil<br/>A: Standard AC Coil</p> <p><b>Coil Voltage:</b> VDC (06: 6V, 09: 9V, 12: 12V, 15: 15V, 18: 18V, 24: 24V, 48: 48V, 60: 60V, 110: 110V)<br/>VAC (24: 24V, 115: 115V, 230: 230V)</p> <p><b>Number of Pole:</b> 2: Two Poles</p> <p><b>Type of Sealing:</b> SH: RT III Wash Tight</p> <p><b>Model Name:</b> AMI</p> |
|---|---|

## Classification

| Model            | AMI          |               |               |              |               |               |
|------------------|--------------|---------------|---------------|--------------|---------------|---------------|
| Coil Sensitivity | DC Coil      |               |               | AC Coil      |               |               |
| Contact Form     | 2C           | 2A            | 2B            | 2C           | 2A            | 2B            |
| Wash Tight       | AMI SH 2□□□D | AMI SH 2□□□DM | AMI SH 2□□□DB | AMI SH 2□□□A | AMI SH 2□□□AM | AMI SH 2□□□AB |
| Wash Tight- New  | AMI SH 2□□□F | AMI SH 2□□□FM | AMI SH 2□□□FB | -            | -             | -             |

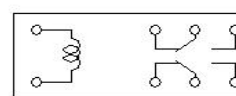
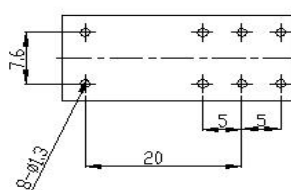
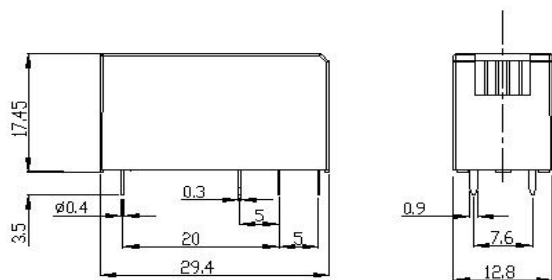
Dimension ( $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , the tolerance of PCB thru hole:  $+0.1\text{mm}$ )



P.C.B. Layout

Bottom View

(New Structure DC Coil)

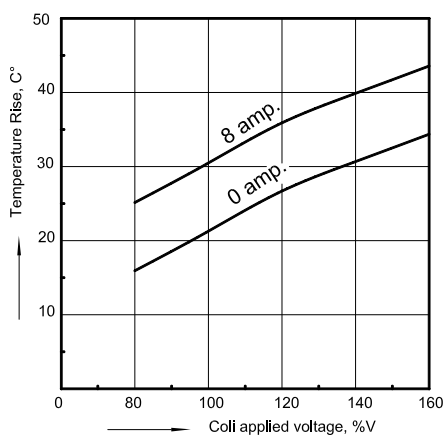


P.C.B. Layout

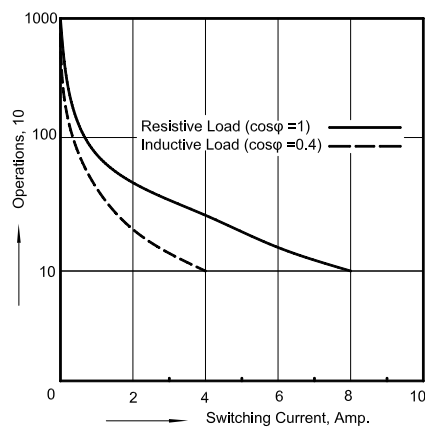
Bottom View

## Reference Data

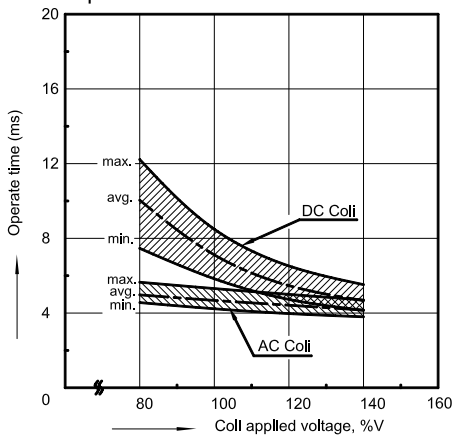
Temperature Rise (at 85°C)



Endurance



Operate time



Release time

