

**FEATURES**

- Multi contact arrangements:2 form C (2Z type),1NO+1NC(HD1 type),1NO+1NC(HD2 type)
- 8A switching capability
- Forcibly guided contacts according to EN50205
- High insulation capability(1.2/50us):10kv surge voltage between coil &contacts and 6kv between contact set
- Insulation system: Class F available
- Environmental friendly product (ROHS compliant)
- Subminiature size 29 x 12.6 x 25.5(L x W x H)

**CONTACT DATA**

|                               |   |
|-------------------------------|---|
| Contact form                  | 2 Form C(2Z type)<br>1NO+1NC(HD1 type)<br>1NO+1NC(HD2 type) |
| Forcibly guided contacts type | HD1,HD2 type: A<br>2Z type: B                               |
| Contact resistance (Initial)  | 100mΩ max.(at 1A<br>6VDC)                                   |
| Contact rating (Rated load)   | 6A 250VAC/30VDC   |
| Max. switching voltage        | 400VAC/30VDC  |
| Max. switching current        | 8A  |
| Max. switching power          | 1500VA/180W   |
| Contact material              | AgSnO <sub>2</sub>  |
| Construction                  | Plastic sealed  |

**CHARACTERISTICS**

|                       |  |
|-----------------------|--|
| Insulation resistance | 1000MΩ at 500VDC   |
| Dielectric strength   | 4000VAC, between coil to contacts(1min)<br>1500VAC, between open contacts(1min)<br>3000VAC,between contact sets(1min)  |
| Surge voltage         | 10kv,between coli to contacts(1.2/50us)<br>2.5kv,between open contacts(1.2/50us)<br>6kv,between contact sets(1.2/50us)                                       |
| Operate time          | Max. 15 ms (nominal voltage)   |
| Release time          | Max. 10 ms (nominal voltage)   |
| Vibration resistance  | NO:10-55Hz,1.6mm DA<br>55-200Hz,98m/s <sup>2</sup><br>NC:10-55Hz,0.4mm DA  |
| Shock resistance      | NO:98 m/s <sup>2</sup> NC:49 m/s <sup>2</sup><br>Destructive:980m/s <sup>2</sup>   |
| Humidity              | 5% to 85% RH   |
| Ambient temperature   | -40°C to + 70°C  |
| Clearance distance    | 8mm,between coil to contacts<br>5.5mm,between contacts   |
| Life expectancy       |  |
| - Electrical          | 1x10 <sup>5</sup> ops(1NO:6A250VAC/30VDC,Resistive load,at70°C,1s on 9s off)<br>5x10 <sup>4</sup> ops(1NC:6A250VAC/30VDC,Resistive load,at70°C,1s on 9s off) |
| - Mechanical          | 1 x 10 <sup>7</sup> operations   |

## COIL SPECIFICATIONS

| Nominal voltage (VDC) | Pick-up voltage VDC(Max.) | Drop-out voltage VDC(Min.) | Nominal current (mA±10%) | Coil resistance ( $\Omega$ ±10%) | Power consumption(mW) | Max. allowable voltage(VDC) |
|-----------------------|---------------------------|----------------------------|--------------------------|----------------------------------|-----------------------|-----------------------------|
| 5                     | 3.80                      | 0.5                        | 140                      | 35.7                             | 700                   | 130% of nominal voltage     |
| 6                     | 4.50                      | 0.6                        | 117                      | 51                               | 700                   |                             |
| 9                     | 6.80                      | 0.9                        | 77.5                     | 116                              | 700                   |                             |
| 12                    | 9.00                      | 1.2                        | 58                       | 206                              | 700                   |                             |
| 15                    | 11.3                      | 1.5                        | 46.7                     | 321                              | 700                   |                             |
| 18                    | 13.5                      | 1.8                        | 37                       | 483                              | 700                   |                             |
| 21                    | 15.8                      | 2.1                        | 33.3                     | 630                              | 700                   |                             |
| 24                    | 18.0                      | 2.4                        | 29                       | 823                              | 700                   |                             |
| 36                    | 27.0                      | 3.6                        | 19.5                     | 1851                             | 700                   |                             |
| 40                    | 30.0                      | 4.0                        | 17.5                     | 2286                             | 700                   |                             |
| 48                    | 36.0                      | 4.8                        | 14.5                     | 3291                             | 700                   |                             |
| 60                    | 45.0                      | 6.0                        | 11.7                     | 5142                             | 700                   |                             |
| 80                    | 64.0                      | 8.0                        | 8.8                      | 9143                             | 700                   |                             |
| 110                   | 82.5                      | 11.0                       | 6.4                      | 17285                            | 700                   |                             |

## ORDERING INFORMATION

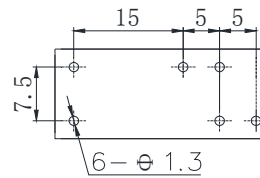
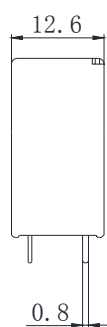
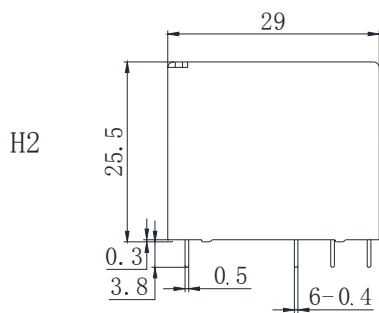
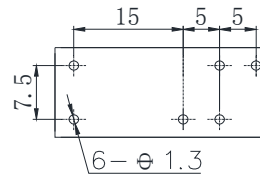
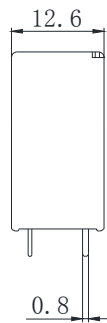
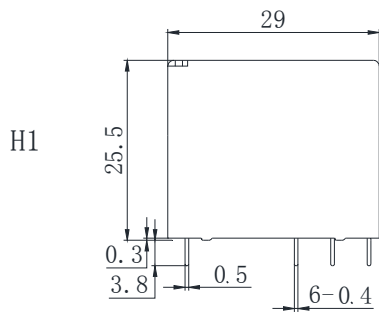
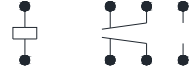
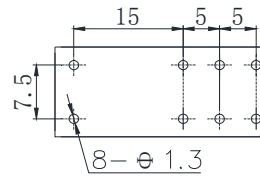
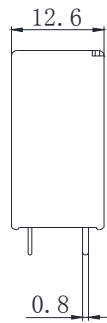
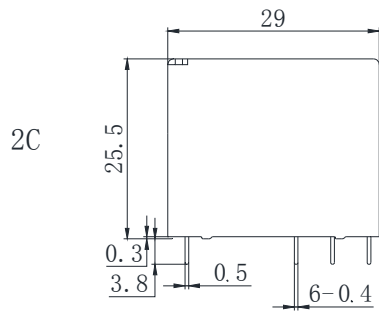
**MEFD2** - **012** - **H1**      **S**      **T**      **F**      **G**

| Model No. | Coil Voltage    | Contact Form  | Package Type                    | Contact Material | Insulation System           | Contact plating                          |
|-----------|-----------------|---|---------------------------------|------------------|-----------------------------|--|
| MEFD2     | 5VDC–<br>110VDC | H1:1NO+1NC<br>(type 1)<br>H2:1NO+1NC<br>(type 2)<br>2Z: 2 C | Nil: Flux<br>Proof<br>S: Sealed | T: AgSnO         | Nil: Class B<br>F : Class F | Nil: No gold<br>plated<br>G: Gold plated |

## Dimensions(unit:mm)

Tolerance:±0.2

Tolerance:±0.1



**Disclaimer: All the specifications are subject to change without notice.**