

**FEATURES**

- In series connection 10kA/ in parallel connection 20kA lightning-proof current
- 2 form A in series 25A 300VDC switching capability, 2 form A in series 14A 400VDC switching capability, 40A 277VAC switching capability is only for AC load type
- 10kV dielectric strength (Between coil to contacts)
- Contact gap: 2.6mm, 2.3mm only for AC load type
- Insulation system: Class F
- Dimension: 50 x 25 x 31mm ( L x W x H )

**CONTACT DATA**

| Type                         | Standard                                   | A(AC load)               |
|------------------------------|--------------------------------------------|--------------------------|
| Contact arrangement          | 2A                                         |                          |
| Contact resistance(initial)  | 10 mΩ(20A 6VDC)                            |                          |
| Voltage drop                 | Type,: 15mV(at 10A)<br>Max,: 100mV(at 10A) |                          |
| Contact rating<br>(Res,load) | 25A/300VDC<br>14A/400VDC                   | 40A/277VAC<br>32A/277VAC |
| Max. switching voltage       | 400VAC                                     | 277VAC                   |
| Max. Switching current       | 25A                                        | 40A                      |
| Max. Switching power         | 7500W                                      | 11080VA                  |
| Contact material             | AgSnO <sub>2</sub>                         |                          |
| Termination                  | PCB                                        |                          |
| Construction                 | Flux proofed                               |                          |

**CHARACTERISTICS**

|                                 |                                                                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Insulation resistance           | 1000MΩ at 500VDC                                                                                                                                      |
| Dielectric strength             | 5000VAC, 1 min. between coil to contacts<br>2500VAC, 1 min. Between contacts<br>2500VAC, 1 min. between open contacts                                 |
| Surge voltage                   | 10kV(1.2/50μs) between coil to contacts                                                                                                               |
| Operate time                    | Max. 20 ms (nominal voltage)                                                                                                                          |
| Release time                    | Max. 10 ms (nominal voltage)                                                                                                                          |
| Vibration resistance            | 10-55Hz, 1.5mm DA                                                                                                                                     |
| Temperature rise                | 70K max.(contact load current 40A,<br>Applied voltage of coil 100% rated<br>voltage for 100ms holding voltage of coil<br>50% rated voltage , at 85°C) |
| Shock resistance                | Functional:98m/s <sup>2</sup><br>Destructive:980m/s <sup>2</sup>                                                                                      |
| Humidity                        | 5% to 85% RH                                                                                                                                          |
| Ambient temperature             | -40°C ~ 85°C                                                                                                                                          |
| Life expectancy<br>- Mechanical | 2 x 10 <sup>5</sup> ops                                                                                                                               |

**Electrical Endurance**

|                                            |                |                                                                                                                                                                                          |
|--------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Life expectancy<br>Electrical<br>Endurance | Standard       | 1 x 10 <sup>4</sup> ops(25A 300VAC,Resistive load,2 from A in series at 85°C,1s on 9s off)<br>1 x 10 <sup>4</sup> ops(14A 400VAC,Resistive load,2 from A in series at 85°C,1s on 9s off) |
|                                            | A<br>(AC load) | 1 x 10 <sup>4</sup> ops(40A 277VAC,Resistive load, at 85°C,1s on 9s off)<br>5 x 10 <sup>4</sup> ops(32A 277VAC,Resistive load, at 85°C,1s on 9s off)                                     |

COIL SPECIFICATIONS

| Nominal voltage (VDC) | Pick-up voltage VDC(Max.) | Drop-out voltage VDC(Min.) | Nominal current (mA±10%) | Coil resistance (Ω±10%) | Power consumption(W) | Max. allowable voltage(VDC) |
|-----------------------|---------------------------|----------------------------|--------------------------|-------------------------|----------------------|-----------------------------|
| 6                     | 4.2                       | 0.3                        | 667                      | 9                       | 4.0                  | 110% of nominal voltage     |
| 9                     | 6.3                       | 0.45                       | 445                      | 20.3                    | 4.0                  |                             |
| 12                    | 8.4                       | 0.6                        | 333                      | 36                      | 4.0                  |                             |
| 24                    | 16.8                      | 1.2                        | 167                      | 144                     | 4.0                  |                             |
| 48                    | 33.6                      | 2.4                        | 83                       | 576                     | 4.0                  |                             |

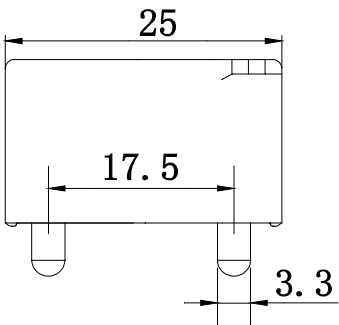
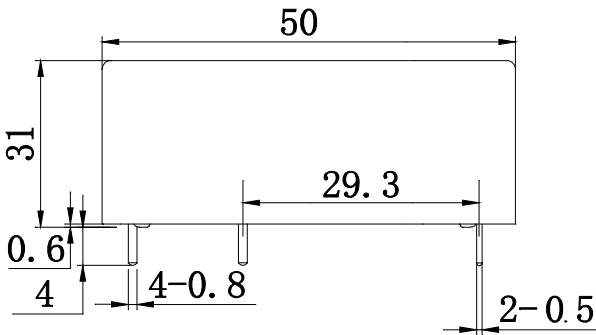
ORDERING INFORMATION

ME-77   -   012   -   2H                      A                      T                      F

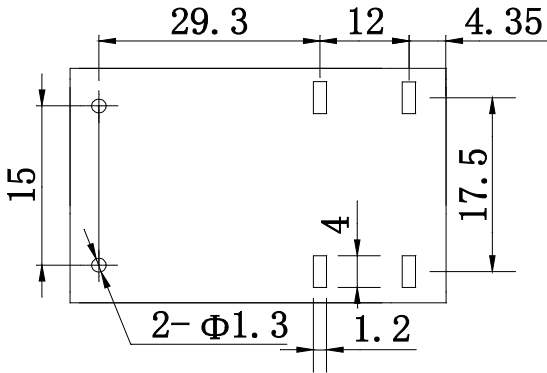
| Model No. | Coil Voltage | Contact Form | Type                        | Contact Material      | Insulation system |
|-----------|--------------|--------------|-----------------------------|-----------------------|-------------------|
| ME-77     | 6VDC-48VDC   | H: 2A        | Nil: Standard<br>A: AC load | T: AgSnO <sub>2</sub> | F: Class F        |

Dimensions(unit:mm)

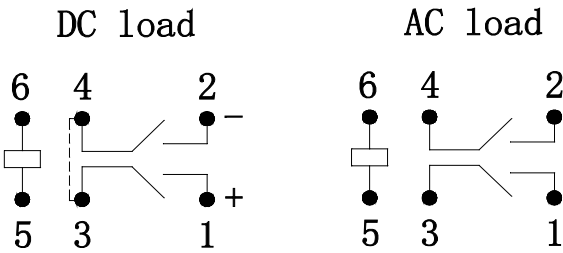
Tolerance: ±0.4mm



PCB LAYOUT



SCHEMATIC



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