

## FEATURES

- 1A and 1C configurations
- 12A switching capacity
- Insulation for high temperature operation:  
Class B, Class F
- UL and CUL approval, File No.: E179937
- TUV Approval File No.: R50154031

## CONTACT DATA

|                                  |  |
|----------------------------------|--|
| Contact form                     | 1 A ; 1 C  |
| Contact resistance<br>(Initial)  | Max. 100mΩ   |
| Contact rating<br>Resistive load | 12A 277VAC<br>10A 240/277VAC<br>12A 28VDC<br>1/3 HP 125VAC |
| Inductive Load                   | 2A 240VAC  |
| Max. switching power             | 2400VA/280W  |
| Make current                     | 20A  |
| Max. switching current           | 12A  |
| Max. switching voltage           | 250VAC/30VDC   |
| Contact material                 | AgCdO / AgSnO <sub>2</sub>                                 |

## CHARACTERISTICS

|                       |  |
|-----------------------|--|
| Insulation resistance | 100MΩ  |
| Dielectric strength   | 1500Vrms, between coil to contacts<br>750Vrms, between open contacts |
| Operate time          | Max. 10 ms   |
| Release time          | Max. 5 ms  |
| Shock resistance      | Functional: 100m/s <sup>2</sup> ; Destructive: 1000m/s <sup>2</sup>  |
| Ambient temperature   | -40°C to +105°C  |
| Insulation system     | Class B 130°C<br>Class F 150°C                                       |
| Humidity              | 35% to 95%   |
| Vibration resistance  | 1.5mm, 10Hz to 55Hz  |
| Life expectancy       |  |
| - Electrical          | Min. 1 x 10 <sup>5</sup> operations                                  |
| - Mechanical          | Min. 1 x 10 <sup>7</sup> operations                                  |
| Weight                | 13g  |

## COIL SPECIFICATIONS

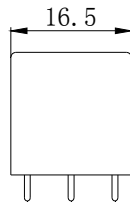
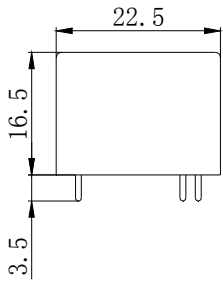
| Nominal voltage<br>(VDC) | Pick-up voltage<br>VDC (Max.) | Drop-out voltage<br>VDC (Min.) | Max. allowable<br>voltage (at 20°C) | Coil resistance<br>(Ω±10%) | Power<br>consumption(mW) |
|--------------------------|-------------------------------|--------------------------------|-------------------------------------|----------------------------|--------------------------|
| 3                        | 2.4                           | 0.3                            | 3.6                                 | 25                         | 360                      |
| 5                        | 4                             | 0.5                            | 6                                   | 70                         | 360                      |
| 6                        | 4.8                           | 0.6                            | 7.2                                 | 100                        | 360                      |
| 9                        | 7.2                           | 0.9                            | 10.8                                | 225                        | 360                      |
| 12                       | 9.6                           | 1.2                            | 14.4                                | 400                        | 360                      |
| 18                       | 14.4                          | 1.8                            | 21.6                                | 900                        | 360                      |
| 24                       | 19.2                          | 2.4                            | 28.8                                | 1600                       | 360                      |
| 48                       | 38.4                          | 4.8                            | 57.6                                | 4500                       | 512                      |

## ORDERING INFORMATION

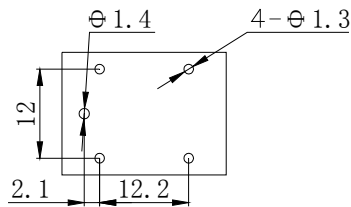
|              |                                   |                    |                                 |  |                                       |          |          |
|--------------|-----------------------------------|--------------------|---------------------------------|--|---------------------------------------|----------|----------|
| <u>ME-15</u> | -                                 | <u>12</u>          | -                               | <u>1H</u>                                  | <u>T</u>                              | <u>F</u> | <u>S</u> |
| Model No.    | Coil Voltage                      | Contact Form       | Contact Material                | Insulation System                          | Protection                            |          |          |
| ME-15        | 3, 5, 6, 9, 12, 18,<br>24 & 48VDC | 1H: 1 A<br>1Z: 1 C | Nil: Standard<br>T : Heavy duty | Nil: Class A<br>B : Class B<br>F : Class F | Nil: Unsealed type<br>S : Sealed type |          |          |

## Dimensions(unit:mm)

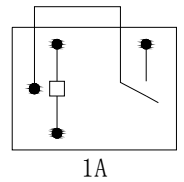
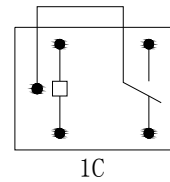
Tolerance:±0.3



PCB LAYOUT (Bottom View)



SCHEMATIC (Bottom View)



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