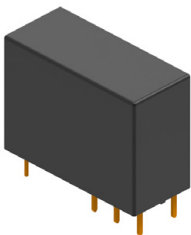


# MP100



- 一组 25A 触点切换能力
- 两组 16A 触点切换能力
- 线圈与触点间介质耐压 5kV
- 多种触点间隙类型
- 配有多种安装方式
- 配有多种插座可供选择
- 环保产品：（符合 RoHS）
- Switching capacity of a group of 25A contacts
- Switching capacity of two groups of 16A contacts
- Dielectric withstand voltage between coil and contact 5kV
- Multiple contact gap types
- Multiple installation methods
- Multiple sockets available
- Environmental protection products: (RoHS compliant)

MP100 - S - 1 12 D - A - 1 1 F G T - xxx

| 产品型号<br>Model | 产品结构<br>Structure                                                        | 触点组数<br>Number of Poles           | 线圈电压<br>Coil Voltage                                                                                                       | 电源形式<br>Power Supply Form           | 触点结构<br>Contact structure                                                     | 结构形式<br>Structural Form                                                                                                                                                                                  | 线圈功耗<br>Coil Power Consumption                                                                                                                                                      | 绝缘等级<br>Insulation Class                     | 触点形式<br>Contact Arrangement                   | 安装方式<br>Installation Method                                                                                                | 特殊特性<br>Special characteristics                                                                                                 |
|---------------|--------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|               | S: 密封型<br>S: Plastic packaging type<br>无 Ni: 防焊剂型<br>Ni free: flux proof | 1: 1 组<br>POLE<br>2: 2 组<br>GROUP | 3, 5, 6, 9, 12, 15, 18, 24, 48, 60, 110, 220<br>(仅 only 1.4W) VDC<br>6, 12, 24, 36, 48, 60, 72, 110, 120, 220, 230, 240VAC | D: 直流 direct<br>A: 交流 communication | A: 常开<br>Normally open<br>B: 常闭<br>Normally Closed<br>C: 转换<br>transformation | 1: 1 组 set 3.5 脚距<br>foot pitch, 16A/12A<br>2: 1 组 set 5.0 脚距<br>foot pitch, 16A<br>3: 2 组 set 5.0 脚距<br>foot pitch, 12A<br>4: 1 组 set 5.0 脚距<br>foot pitch, 25A<br>5: 2 组 set 5.0 脚距<br>foot pitch, 16A | 1: 0.53W(标准型)<br>Standard<br>2: 0.8W<br>3: 1.4W (2.0mm 触点间隙 A 型, B 型, C 型 and 1.5mm 触点间隙 C 型产品)<br>Contact clearance A, B, C and 1.5mm contact clearance C products<br>4: 1.0-1.4VA | 无: None / F: F 级<br>Class<br>B: B 级<br>Level | 无: 常闭<br>None: General<br>G: 镀金<br>G: Gilding | 无: 焊接型<br>None: welding type<br>T: 插片型<br>且带灯 Plug type with lamp<br>TB: 插片型<br>且带灯带按钮<br>Insert type with lamp and button | 00: 单脚<br>One foot<br>3.5mm 脚距<br>Foot spacing 16A<br>G15: 1.5mm 触点间隙<br>Contact clearance G20: 2.0mm 触点间隙<br>Contact clearance |

## 触点参数 CONTACT PARAMETERS

|                               |                                                                                                                                                                                                                                                              |                                                                                           |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 触点形式 Contact Arrangement      | 1a,1b,1c                                                                                                                                                                                                                                                     | 2a,2b,2c                                                                                  |
| 触点材料 Contact Material         | 银合金 Silver alloy                                                                                                                                                                                                                                             |                                                                                           |
| 接触电阻 Contact Resistance       | ≤ 100mΩ (1A 6VDC)                                                                                                                                                                                                                                            |                                                                                           |
| 额定负载 Rated Load               | 25A 277VAC<br>16A 277VAC                                                                                                                                                                                                                                     | 16A 277VAC<br>12A 277VAC                                                                  |
| 最大切换电流 Max. Switching Current | 25A/16A                                                                                                                                                                                                                                                      | 16A/12A                                                                                   |
| 最大切换电压 Max. Switching Voltage | 277VAC/30VDC                                                                                                                                                                                                                                                 |                                                                                           |
| 最大切换功率 Max. Switching Power   | 6925VA/750W                                                                                                                                                                                                                                                  | 4432VA/480W                                                                               |
| 电气寿命 Electrical Life          | 1A: 1×10 <sup>5</sup> 次 OPS<br>1B: 5×10 <sup>4</sup> 次 OPS<br>1C: 3×10 <sup>4</sup> 次 OPS                                                                                                                                                                    | 2A: 3×10 <sup>4</sup> 次 OPS<br>2B: 3×10 <sup>4</sup> 次 OPS<br>2C: 1×10 <sup>4</sup> 次 OPS |
| 机械寿命 Mechanical life          | 标准型: 1×10 <sup>7</sup> 次 OPS<br>1.5mm 触点间隙: 5×10 <sup>5</sup> 次 OPS<br>2.0mm 触点间隙: 1×10 <sup>5</sup> 次 OPS<br>Standard type: 1 × 10 <sup>7</sup> OPS<br>1.5mm contact clearance: 5 × 10 <sup>5</sup> OPS<br>2.0mm contact clearance: 1 × 10 <sup>5</sup> OPS |                                                                                           |

电气寿命  
Electrical Life

一组 A group of  
3x10<sup>4</sup> (NC:NO:16A 250VAC, 阻性负载 Resistive load, 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
3x10<sup>4</sup> (NC:NO:16A 24VDC, 阻性负载 Resistive load) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
1x10<sup>5</sup> (NO: 16A 250VAC 阻性负载 Resistive load) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
1x10<sup>5</sup> (NO: 16A 24VDC 阻性负载 Resistive load) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
5x10<sup>4</sup> (NC: 16A 250VAC, 阻性负载 Resistive load) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
5x10<sup>4</sup> (NC: 16A 24VDC, 阻性负载 Resistive load) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
1x10<sup>4</sup> (NO: 25A 250VAC, 阻性负载 Resistive load) 常温 Normal temperature, 1s 通 On 9s 断 Off)  
1x10<sup>4</sup> (NC:25A 250VAC, 阻性负载 Resistive load) 常温 Normal temperature, 1s 通 On 9s 断 Off)  
  
二组 Two sets  
1x10<sup>4</sup>(NC:NO:12A 250VAC, 阻性负载 Resistive) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
3x10<sup>4</sup>(NC:NO:10A 24VDC, 阻性负载 Resistive) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
3x10<sup>4</sup> (NO: 12A 250VAC 阻性负载 Resistive) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
1x10<sup>5</sup>(NO:10A 250VAC 阻性负载 Resistive) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
3x10<sup>4</sup>(NO: 12A 24VDC. 阻性负载 Resistive) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
1x10<sup>5</sup>(NO: 10A 24VDC 阻性负载 Resistive) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
3x10<sup>4</sup>(NC: 12A 250VAC, 阻性负载 Resistive) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
5x10<sup>4</sup>(NC: 10A 250VAC, 阻性负载 Resistive) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
3x10<sup>4</sup> (NC: 12A 24VDC, 阻性负载 Resistive) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
5x10<sup>4</sup>(NC: 10A 24VDC, 阻性负载 Resistive) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
3x10<sup>4</sup>(NO:16A 250VAC 阻性负载 Resistive) 常温 Normal temperature, 1.5s 通 On 1.5s 断 Off)  
5x10<sup>4</sup>(NO: 14A 250VAC. 阻性负载 Resistive) 常温 Normal temperature, 1s 通 On 9s 断 Off)  
3x10<sup>4</sup>(NO:16A 24VDC, 阻性负载 Resistive) 常温 Normal temperature, 1s 通 On 9s 断 Off)

性能参数 CHARACTERISTICS

|                             |                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 绝缘电阻 Insulation Resistance  | 1000MΩ(500VDC)                                                                                                                                           |
| 介质耐压<br>Dielectric Strength | 触点与线圈间 Between Coil & Contacts: 5000VAC 1min                                                                                                             |
|                             | 断开触点间 Between open contacts: 常规型 Conventional: 1000VAC 1min<br>1.5mm 触点间隙 Contact clearance: 2000 VAC 1min<br>2.0mm 触点间隙 Contact clearance: 2500VAC 1min |
|                             | 触点组间 : 3000VAC 1min                                                                                                                                      |
| 动作时间 Operate Time           | ≤ 20ms                                                                                                                                                   |
| 释放时间 Release Time           | ≤ 15ms                                                                                                                                                   |
| 环境温度 Ambient Temperature    | -40°C ~+85°C                                                                                                                                             |
| 振 动 Vibration               | 10Hz~55Hz 1.5mm 双振幅                                                                                                                                      |
| 冲 击 Shock                   | 功能性的 Functional: 98m/s <sup>2</sup> (10G)                                                                                                                |
|                             | 破坏性的 Destructive: 980m/s <sup>2</sup> (100G)                                                                                                             |
| 引出端形式 Terminal Form         | 印制板式 PCB                                                                                                                                                 |
| 封装形式 Construction           | 塑封型, 防焊剂型 Plastic Wash tight, Flux Proof                                                                                                                 |
| 重 量 Unit Weight             | 约 About 19g                                                                                                                                              |

| 交流线圈 AC coil                 |                               |                                |                                               |                                  |                                         |
|------------------------------|-------------------------------|--------------------------------|-----------------------------------------------|----------------------------------|-----------------------------------------|
| 额定电压<br>Rated Voltage<br>VAC | 动作电压<br>Action Voltage<br>VAC | 释放电压<br>Release Voltage<br>VAC | 最大允许电压<br>Maximum<br>Allowable Voltage<br>VAC | 线圈电阻<br>Coil Resistance<br>Ω±10% | 线圈功耗<br>Coil Power<br>Consumption<br>VA |
| 6                            | ≤ 4.80                        | ≥ 0.60                         | 6.6                                           | 19                               | 1.0-1.4                                 |
| 12                           | ≤ 9.6                         | ≥ 0.12                         | 13.2                                          | 72                               |                                         |
| 24                           | ≤ 19.2                        | ≥ 0.24                         | 26.4                                          | 290                              |                                         |
| 48                           | ≤ 38.4                        | ≥ 0.48                         | 52.8                                          | 1200                             |                                         |
| 60                           | ≤ 48                          | ≥ 0.60                         | 66                                            | 1800                             |                                         |
| 110                          | ≤ 88                          | ≥ 1.1                          | 121                                           | 6000                             |                                         |
| 120                          | ≤ 96                          | ≥ 1.2                          | 132                                           | 6000                             |                                         |
| 110/125                      | ≤ 88/ ≤ 100                   | ≥ 1.1/ ≥ 1.25                  | 121/137.5                                     | 6000                             |                                         |
| 220                          | ≤ 176                         | ≥ 2.20                         | 242                                           | 23000                            |                                         |
| 230                          | ≤ 184                         | ≥ 2.30                         | 253                                           | 23000                            |                                         |
| 240                          | ≤ 192                         | ≥ 2.40                         | 264                                           | 23000                            |                                         |
| 220/240                      | ≤ 176/ ≤ 192                  | ≥ 2.20 ≥ 2.4                   | 242/264                                       | 23000                            |                                         |

线圈规格表 (23℃) COIL SPECIFICATION TABLE

| 额定电压<br>Rated Voltage<br>VDC | 动作电压<br>Action Voltage<br>VDC | 释放电压<br>Release Voltage<br>VDC | 最大允许电压<br>Maximum<br>Allowable Voltage<br>VDC | 线圈电阻<br>Coil Resistance<br>Ω±10% | 线圈功耗<br>Coil Power<br>Consumption<br>W           |
|------------------------------|-------------------------------|--------------------------------|-----------------------------------------------|----------------------------------|--------------------------------------------------|
| 3                            | ≤ 2.40                        | ≥ 0.15                         | 3.3                                           | 17                               | 标准型<br>Standard<br>0.53                          |
| 5                            | ≤ 4.00                        | ≥ 0.25                         | 5.5                                           | 47                               |                                                  |
| 6                            | ≤ 4.80                        | ≥ 0.30                         | 6.6                                           | 67                               |                                                  |
| 9                            | ≤ 7.20                        | ≥ 0.45                         | 9.9                                           | 152                              |                                                  |
| 12                           | ≤ 9.60                        | ≥ 0.60                         | 13.2                                          | 270                              |                                                  |
| 15                           | ≤ 12.0                        | ≥ 0.75                         | 16.5                                          | 420                              |                                                  |
| 18                           | ≤ 14.4                        | ≥ 0.90                         | 19.8                                          | 610                              |                                                  |
| 24                           | ≤ 19.2                        | ≥ 1.20                         | 26.4                                          | 1080                             |                                                  |
| 36                           | ≤ 28.8                        | ≥ 1.80                         | 39.6                                          | 2445                             |                                                  |
| 48                           | ≤ 38.4                        | ≥ 2.40                         | 52.8                                          | 4345                             |                                                  |
| 60                           | ≤ 48.0                        | ≥ 3.00                         | 66.0                                          | 6790                             |                                                  |
| 110                          | ≤ 88.0                        | ≥ 5.50                         | 121.0                                         | 22800                            |                                                  |
| 3                            | ≤ 2.40                        | ≥ 0.15                         | 3.3                                           | 6                                | 2.0/1.8mm<br>触点间隙<br>Contact<br>clearance<br>1.4 |
| 5                            | ≤ 4.00                        | ≥ 0.25                         | 5.5                                           | 18                               |                                                  |
| 6                            | ≤ 4.80                        | ≥ 0.30                         | 6.6                                           | 26                               |                                                  |
| 9                            | ≤ 7.20                        | ≥ 0.45                         | 9.9                                           | 58                               |                                                  |
| 12                           | ≤ 9.60                        | ≥ 0.60                         | 13.2                                          | 102                              |                                                  |
| 15                           | ≤ 12.0                        | ≥ 0.75                         | 16.5                                          | 160                              |                                                  |
| 18                           | ≤ 14.4                        | ≥ 0.90                         | 19.8                                          | 230                              |                                                  |
| 24                           | ≤ 19.2                        | ≥ 1.20                         | 26.4                                          | 410                              |                                                  |
| 36                           | ≤ 28.8                        | ≥ 1.80                         | 39.6                                          | 925                              |                                                  |
| 48                           | ≤ 38.4                        | ≥ 2.40                         | 52.8                                          | 1650                             |                                                  |
| 60                           | ≤ 48.0                        | ≥ 3.00                         | 66.0                                          | 2570                             |                                                  |
| 110                          | ≤ 88.0                        | ≥ 5.50                         | 121.0                                         | 8068                             |                                                  |
| 3                            | ≤ 2.40                        | ≥ 0.15                         | 3.3                                           | 11.3                             | 标准型<br>Standard<br>0.8                           |
| 5                            | ≤ 4.00                        | ≥ 0.25                         | 5.5                                           | 31                               |                                                  |
| 6                            | ≤ 4.80                        | ≥ 0.30                         | 6.6                                           | 45                               |                                                  |
| 9                            | ≤ 7.20                        | ≥ 0.45                         | 9.9                                           | 101                              |                                                  |
| 12                           | ≤ 9.60                        | ≥ 0.60                         | 13.2                                          | 180                              |                                                  |
| 15                           | ≤ 12.0                        | ≥ 0.75                         | 16.5                                          | 280                              |                                                  |
| 18                           | ≤ 14.4                        | ≥ 0.90                         | 19.8                                          | 405                              |                                                  |
| 26                           | ≤ 19.2                        | ≥ 1.20                         | 26.4                                          | 720                              |                                                  |
| 36                           | ≤ 28.8                        | ≥ 1.80                         | 39.6                                          | 1620                             |                                                  |
| 48                           | ≤ 38.4                        | ≥ 2.40                         | 52.8                                          | 2880                             |                                                  |
| 60                           | ≤ 48.0                        | ≥ 3.00                         | 66.0                                          | 4500                             |                                                  |
| 110                          | ≤ 88.0                        | ≥ 5.50                         | 121.0                                         | 15100                            |                                                  |

# MP100

## 安全认证 SECURITY CERTIFICATION APPROVALS

|                             |                |         |           |
|-----------------------------|----------------|---------|-----------|
| 安全认证 Security certification | UL             | TUV     | CQC       |
| 证书编号 Certificate No         | CQC23002388382 | E534086 | R50580016 |

外形尺寸、接线图、安装孔尺寸 (单位: mm)

BOUNDARY DIMENSION, WIRING DIAGRAM AND MOUNTING HOLE DIMENSION (UNIT: MM)

| 外形尺寸 Overall dimensions                    |                                            |                                            |
|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| 1 组 C 型 1 set of C type                    | 2 组 C 型 2 sets of C type                   |                                            |
|                                            |                                            |                                            |
| 接线图 (底视图) Wiring diagram (bottom view)     |                                            |                                            |
| 1 组单脚 A 型<br>One set of single foot type A | 1 组单脚 B 型<br>one set of single foot type B | 1 组单脚 C 型<br>one set of single foot type C |
|                                            |                                            |                                            |
| 1 组双脚 A 型<br>1 set of foot type A          | 1 组双脚 B 型<br>1 set of foot type B          | 1 组双脚 C 型<br>1 set of foot type C          |
|                                            |                                            |                                            |
| 2 组双脚 A 型<br>Two sets of feet A            | 2 组双脚 B 型<br>Two sets of feet B            | 2 组双脚 C 型<br>Two sets of feet C            |
|                                            |                                            |                                            |

# MP100

安装孔尺寸 (底视图) Mounting hole size (bottom view)

|                                                              |                                                              |                                                              |
|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| <p>1 组单脚 3.5mm A 型<br/>1 set of single leg 3.5mm A type</p>  | <p>1 组单脚 3.5mm B 型<br/>1 set of single leg 3.5mm B type</p>  | <p>1 组单脚 3.5mm C 型<br/>1 set of single leg 3.5mm C type</p>  |
| <p>1 组双脚 5.0mm A 型 -16A<br/>1 set of feet 5.0mm A-16A</p>    | <p>1 组双脚 5.0mm B 型 -16A<br/>1 set of feet 5.0mm B-16A</p>    | <p>1 组双脚 5.0mm C 型 -16A<br/>1 set of feet 5.0mm C-16A</p>    |
| <p>1 组双脚 5.0mm A 型 -25A<br/>1 set of feet 5.0mm A-25A</p>    | <p>1 组双脚 5.0mm B 型 -25A<br/>1 set of feet 5.0mm B-25A</p>    | <p>1 组双脚 5.0mm C 型 -25A<br/>1 set of feet 5.0mm C-25A</p>    |
| <p>2 组双脚 5.0mm A 型 -12A<br/>Two sets of feet 5.0mm A-12A</p> | <p>2 组双脚 5.0mm B 型 -12A<br/>Two sets of feet 5.0mm B-12A</p> | <p>2 组双脚 5.0mm C 型 -12A<br/>Two sets of feet 5.0mm C-12A</p> |
| <p>2 组双脚 5.0mm A 型 -16A<br/>2 sets of feet 5.0mm A-16A</p>   | <p>2 组双脚 5.0mm B 型 -16A<br/>2 sets of feet 5.0mm B-16A</p>   | <p>2 组双脚 5.0mm C 型 -16A<br/>2 sets of feet 5.0mm C-16A</p>   |

# MP100

## 备注 Notes:

- 1) 产品部分外形尺寸未注尺寸公差，当外形尺寸 $\leq 1\text{mm}$ ，公差为 $\pm 0.2\text{mm}$ ；当外形尺寸在 $1\sim 5\text{mm}$ 之间时，公差为 $\pm 0.3\text{mm}$ ；当外形尺寸 $> 5\text{mm}$ 时，公差为 $\pm 0.4\text{mm}$ 。  
In case of no tolerance shown in outline dimension: outline dimension  $\leq 1\text{mm}$ , tolerance should be  $\pm 0.2\text{mm}$ ; outline dimension  $> 1\text{mm}$  and  $\leq 5\text{mm}$ , tolerance should be  $\pm 0.3\text{mm}$ ; outline dimension  $> 5\text{mm}$ , tolerance should be  $\pm 0.4\text{mm}$ ;
- 2) 安装孔尺寸中未注尺寸公差的均为 $\pm 0.1\text{mm}$ 。  
The tolerance without indicating for PCB layout is always  $\pm 0.1\text{mm}$ .

## 声明 STATEMENT:

1. 本产品规格书仅供客户使用时参考，若有更改，恕不另行通知。  
This product specification for client's reference, if any change without notice.
2. 对美硕而言，不可能评定继电器在每个具体应用领域的所有性能参数要求，因而客户应该根据具体的使用条件选择与之相匹配的产品，若有疑问，请与美硕联系获取更多的技术支持。但产品选型责任仅由客户负责。  
For Meishuo, cannot require evaluation of relays in each specific application of all the performance parameters, so customers should be selected according to the matching conditions for the use of specific products, if you have any questions, please contact us and get more technical support. However, product selection responsibility only by the customer.