

# 两相高性能混合式步进电机 Two Phase Stepping Motors

## Item: MiGE 86Series

|                        |                        |
|------------------------|------------------------|
| 步距精度:                  | 5%                     |
| Step Angle Accuracy:   |                        |
| 温度:                    | 80°C Max               |
| Temperature Rise:      |                        |
| 环境温度:                  | -20°C~+50°C            |
| Ambient Temperature:   |                        |
| 绝缘电阻:                  | 100MΩ Min 500VDC       |
| Insulation Resistance: |                        |
| 耐压:                    | 500V AC 1minute        |
| Dielectric Strength:   |                        |
| 径向跳动:                  | 最大0.02mm (450g负载)      |
| Shaft Radial Play:     | 0.02mm Max.(450g-load) |
| 轴向跳动:                  | 最大0.08mm (450g负载)      |
| Shaft Axial Play:      | 0.08mm Max.(450g-load) |



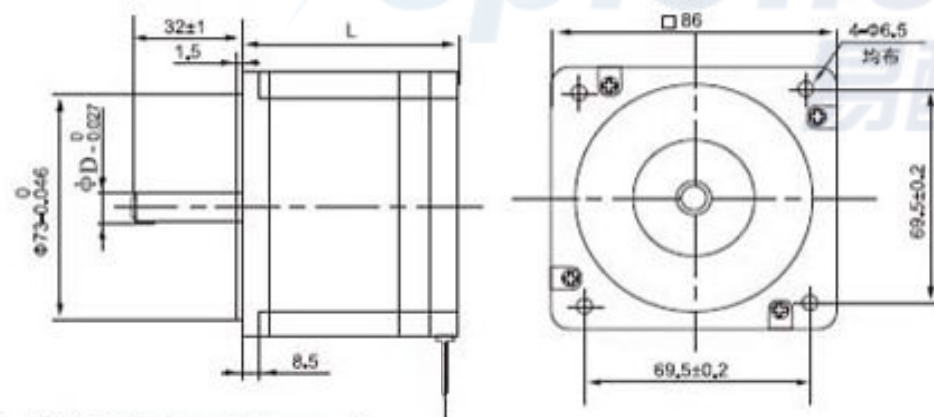
## 技术数据 (Specifications)

| 型号<br>Model | 步距角<br>Step Angle (°) | 电机长度<br>Length L (mm) | 保持转矩<br>Holding torque (N.m) | 额定电流<br>Current (A) | 相电阻<br>Resistance (Ω) | 相电感<br>Inductance (mH) | 转子惯量<br>Rotor inertia (g.cm²) | 电机重量<br>Weight (kg) | 轴径<br>Shaft diameter (mm) | 轴伸<br>Axis stretch (mm)        |
|-------------|-----------------------|-----------------------|------------------------------|---------------------|-----------------------|------------------------|-------------------------------|---------------------|---------------------------|--------------------------------|
| F86-H65     | 1.8                   | 65                    | 3.3                          | 2.8                 | 1.4                   | 3.9                    | 1000                          | 1.7                 | 9.5                       | 平台 1x25<br>leveling block 1x25 |
| F86-H80     |                       | 80                    | 4.5                          | 4.2                 | 0.8                   | 3.4                    | 1400                          | 2.3                 | 12.7                      | 平台 1x25<br>leveling block 1x25 |
| F86-H118    |                       | 118                   | 8.5                          | 4.2                 | 1.2                   | 6.0                    | 2700                          | 3.8                 | 12.7                      | 平键 5x25<br>feather key 5x25    |
| F86-H150    |                       | 150                   | 12                           | 4.2                 | 1.25                  | 8.0                    | 4000                          | 5.4                 | 12.7                      | 平键 5x25<br>feather key 5x25    |

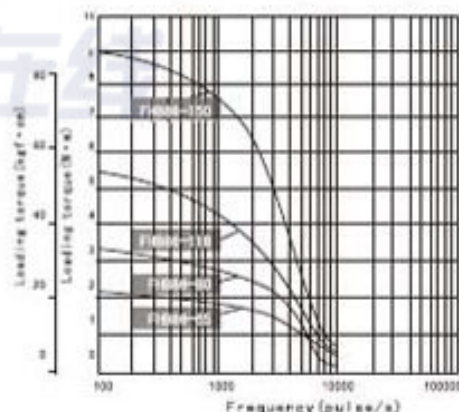
\* 以上仅为代表性产品，派生产品可根据客户要求制作！

Only the representation of the products, we can design according to clients' requirement.

## 外形图 (Dimension) : unit=mm



## 矩频特性曲线图 (frequency-torque characteristics)



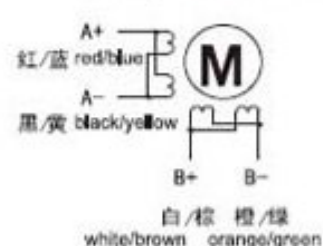
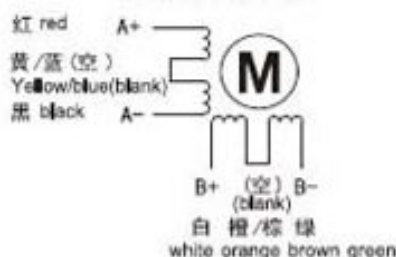
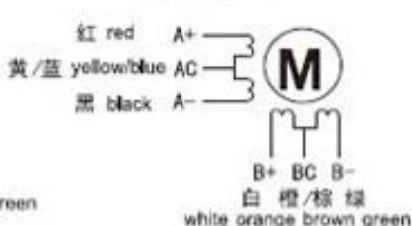
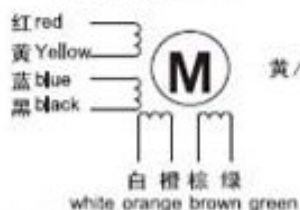
## 接线图 (Wiring Diagram)

八出线接法 8 leads

六出线接法 6 leads

四出线接法 (串联)  
4 leads concatenation

四出线接法 (并联)  
4 leads parallel concatenation



数据都是在HBQ2068D驱动器驱动的情况下测得,测试电压为DC48V。

电机前端盖安装止口定位,并注意公差配合,严格保证电机轴与负载的同心度。  
寸,请勿接错相。

ution:

aracteristics and technical data are both measured by HBQ2068D drive, testing voltage DC48V.

ed, be sure its front cover should be installed to the seam allowance position and attention to the fit tolerance and strictly ensure if electrical motor axis with the load.

ect wrong phase when fitting the motor and drive.