



**常州安科特电机有限公司**  
**CHANGZHOU ACT MOTOR CO.,LTD**

ACT  
MOTOR

**常州安科特电机有限公司**  
**CHANGZHOU ACT MOTOR CO.,LTD**

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# B 企业简介

## BUSINESS ENTERPRISE BRIEF INTRODUCTION

常州安科特电机有限公司是专业设计、生产混合式步进电机、直流无刷电机及配套电机驱动器的高科技企业。

安科特电机始终坚持以人为本，以创新为发展动力，秉承“信誉第一、质量至上”的经营理念，争创市场一流品牌。

安科特电机技术力量雄厚，生产工艺成熟，检验设备齐全。已获得ISO9001:2008质量管理体系认证及CE认证，产品符合欧盟RoHS标准。

安科特电机团队志存高远，锐意进取，在机遇与挑战面前，安科特电机将不断求索，愿与所有的伙伴一同前行，成就未来，共创伟业！

Changzhou ACT Motor Co., Ltd is a high-tech enterprise that specializes in designing and producing hybrid stepper motors, brushless DC motors and motor drivers.

ACT Motor always adhere to people-oriented, innovative driving force for development, adhering to the "credibility first, quality first" business philosophy, striving for market-leading brands.

ACT Motor has strong technical force, mature production technology, complete testing equipment and has obtained ISO9001: 2008 quality management system certification and CE certification, compliance with the EU RoHS standards.

With high aspiration, striving for progress and innovation, ACT Motor team sincerely works hand in hand with domestic and foreign partners for our bright future.

# ACT MOTOR



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(3-PHASE HYBRID STEPPER MOTOR)

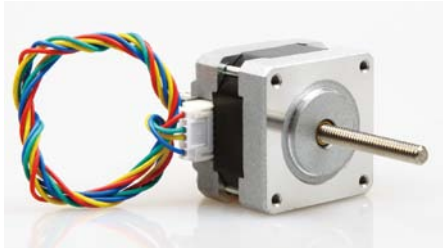
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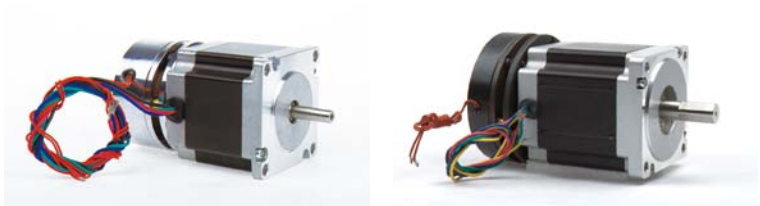
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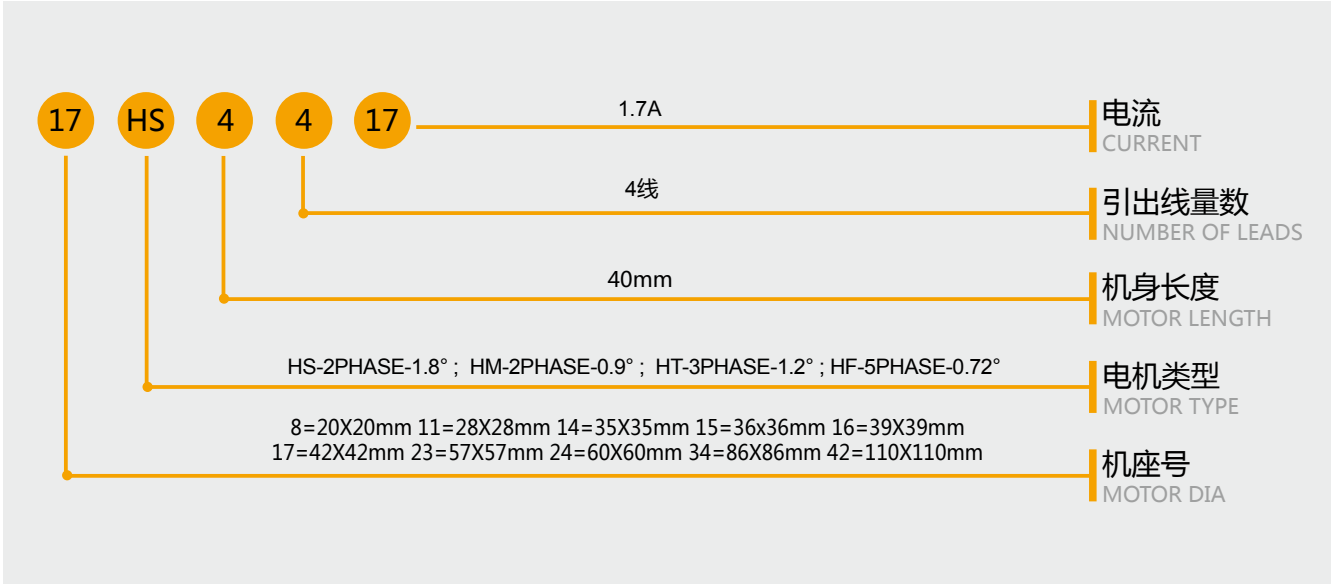
|             |    |
|-------------|----|
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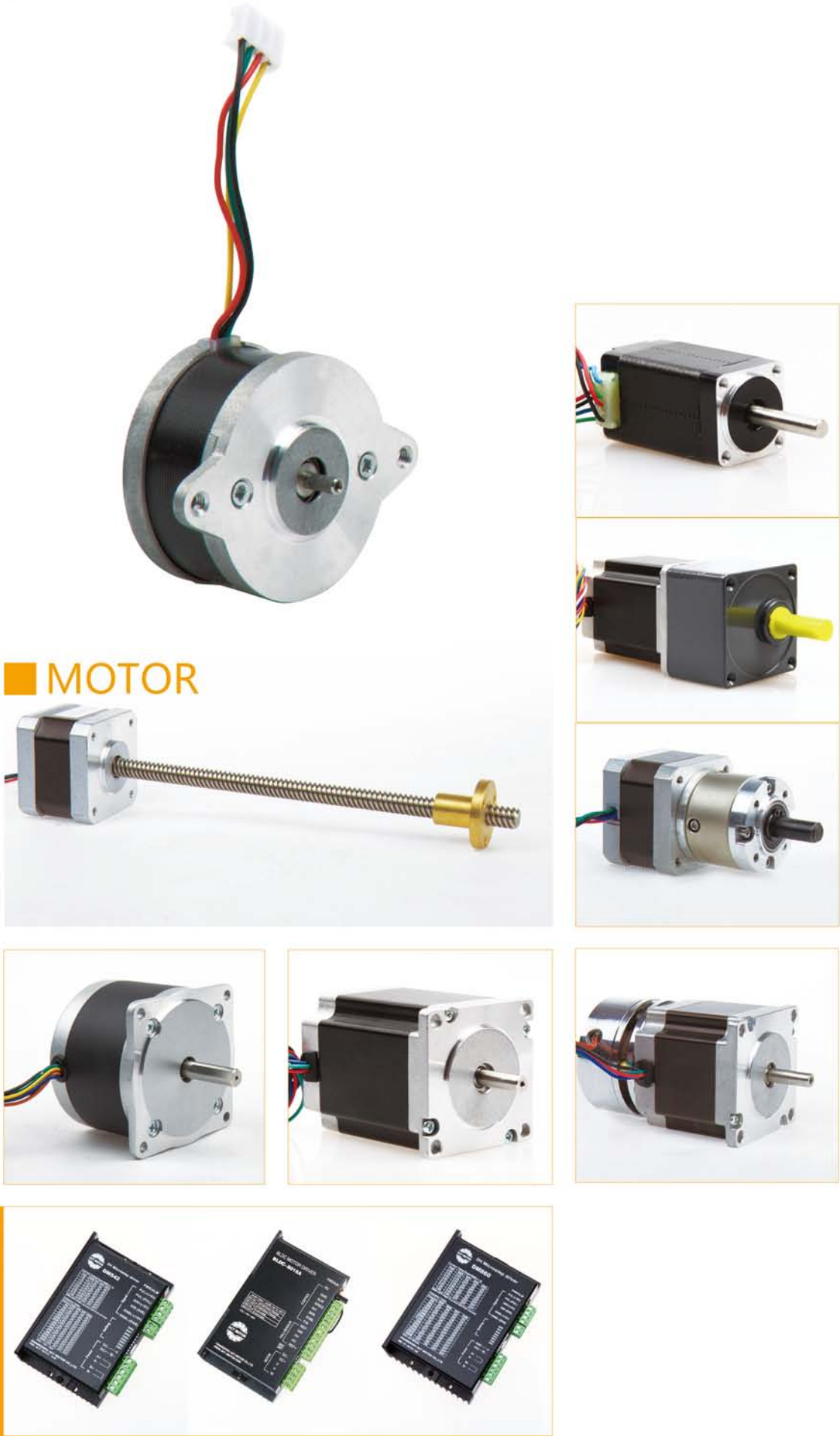
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S 编号规则  
SERIAL NUMBER RULE



G 通用技术条件  
GENERAL SPECIFICATIONS

| Item                  | Specifications |                                     |
|-----------------------|----------------|-------------------------------------|
| Step Angle Accuracy   | 步距精度           | ±5% (full step,no load)             |
| Resistance Accuracy   | 电阻精度           | ±10%                                |
| Inductance Accuracy   | 电感精度           | ±20%                                |
| Temperature Rise      | 温 升            | 80℃ Max. (rated current,2 phase on) |
| Ambient Temperature   | 环 境            | -20℃~ +50℃                          |
| Insulation Resistance | 绝缘电阻           | 100MΩMin.,500VDC                    |
| Dielectric Strength   | 耐 压            | 500VAC for one minute               |





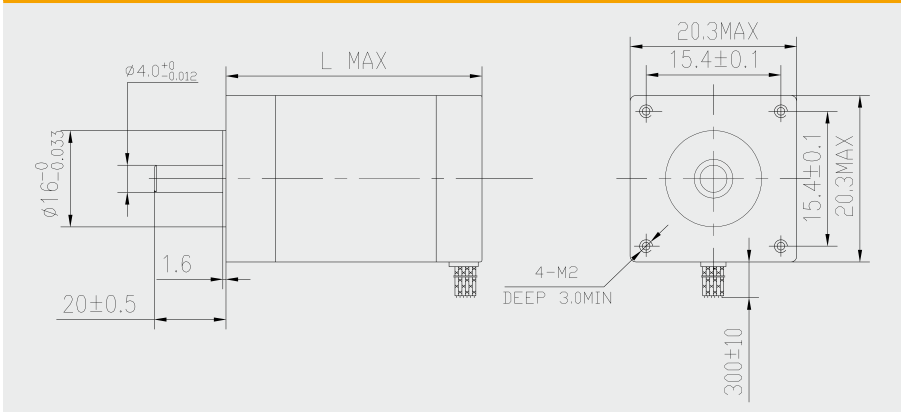
8HS系列 (20BYGH系列)  
混合式步进电机  
HYBRID STEPPER MOTOR



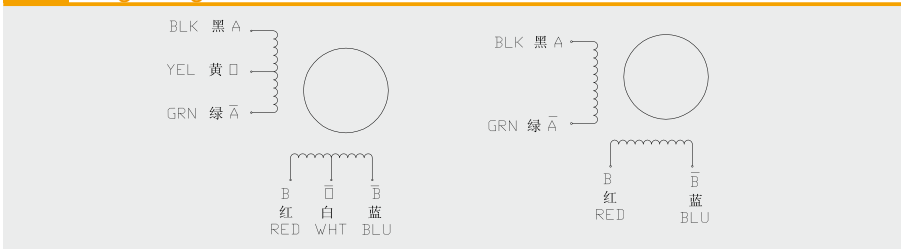
M 机身说明  
Motor Length

| 型号      | 机身长  |
|---------|------|
| 8HS2XXX | 28mm |
| 8HS3XXX | 33mm |
| 8HS4XXX | 40mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

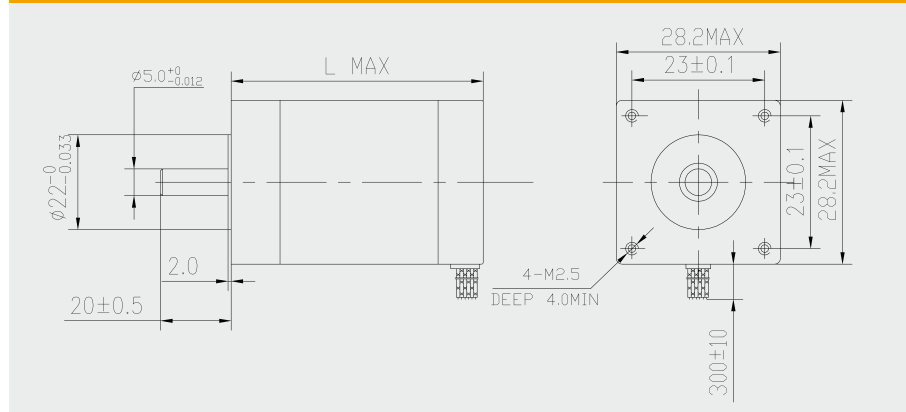


E 技术数据  
Electrical Specifications

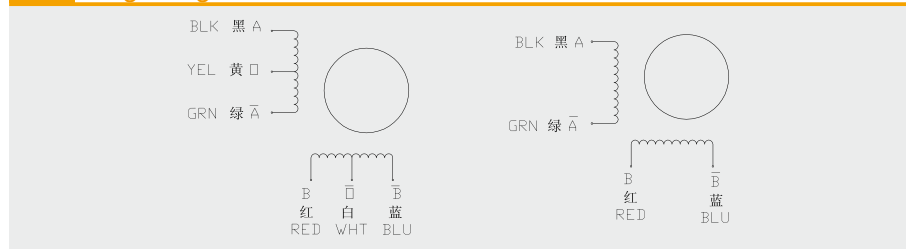
| 型号<br>Series<br>Model | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.cm) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm <sup>2</sup> ) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(g) |
|-----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|------------------------------------|----------------------------------------|-------------------------------------------------|-------------------------------|------------------------------|
| 8HS2402               | 1.8                         | 28                             | 4.6                           | 0.2                           | 23                               | 8.2                               | 1.4                                | 0.2                                    | 2.5                                             | 4                             | 50                           |
| 8HS2406               | 1.8                         | 28                             | 1.92                          | 0.6                           | 3.2                              | 0.9                               | 1.4                                | 0.2                                    | 2.5                                             | 4                             | 50                           |
| 8HS3402               | 1.8                         | 33                             | 5                             | 0.2                           | 25                               | 8.4                               | 1.8                                | 0.3                                    | 3.2                                             | 4                             | 70                           |
| 8HS3406               | 1.8                         | 33                             | 3.9                           | 0.6                           | 4.5                              | 1.7                               | 1.8                                | 0.3                                    | 2.0                                             | 4                             | 70                           |
| 8HS4406               | 1.8                         | 40                             | 3.48                          | 0.6                           | 5.5                              | 1.8                               | 3.0                                | 0.5                                    | 4.5                                             | 4                             | 80                           |
| 8HS4408               | 1.8                         | 40                             | 4.32                          | 0.8                           | 5.4                              | 1.5                               | 3.0                                | 0.5                                    | 3.6                                             | 4                             | 80                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

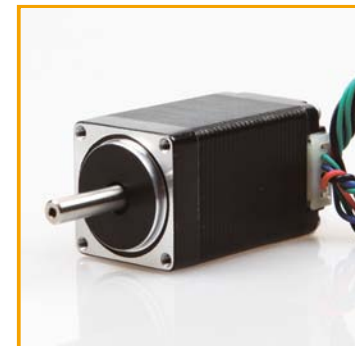


E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Model | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.cm) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm <sup>2</sup> ) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(g) |
|-----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|------------------------------------|----------------------------------------|-------------------------------------------------|-------------------------------|------------------------------|
| 11HS2403              | 1.8                         | 28                             | 4.2                           | 0.35                          | 12                               | 5.8                               | 4.5                                | 0.3                                    | 6                                               | 4                             | 105                          |
| 11HS2406              | 1.8                         | 28                             | 2.52                          | 0.6                           | 4.2                              | 2.2                               | 4.5                                | 0.3                                    | 6                                               | 4                             | 105                          |
| 11HS3406              | 1.8                         | 33                             | 3.8                           | 0.67                          | 5.6                              | 3.4                               | 6.0                                | 0.4                                    | 9                                               | 4                             | 110                          |
| 11HS3609              | 1.8                         | 33                             | 2.66                          | 0.95                          | 2.8                              | 0.8                               | 4.3                                | 0.4                                    | 9                                               | 6                             | 110                          |
| 11HS4403              | 1.8                         | 41                             | 7.0                           | 0.35                          | 20                               | 15                                | 6.0                                | 0.5                                    | 11                                              | 4                             | 140                          |
| 11HS4406              | 1.8                         | 41                             | 4.2                           | 0.6                           | 7.0                              | 6.0                               | 6.0                                | 0.5                                    | 11                                              | 4                             | 140                          |
| 11HS5406              | 1.8                         | 50                             | 6.2                           | 0.67                          | 9.4                              | 7.2                               | 12                                 | 0.8                                    | 18                                              | 4                             | 200                          |
| 11HS5609              | 1.8                         | 50                             | 4.4                           | 0.95                          | 4.6                              | 1.8                               | 12                                 | 0.8                                    | 18                                              | 6                             | 200                          |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

11HS系列 (28BYGH系列)  
混合式步进电机  
HYBRID STEPPER MOTOR

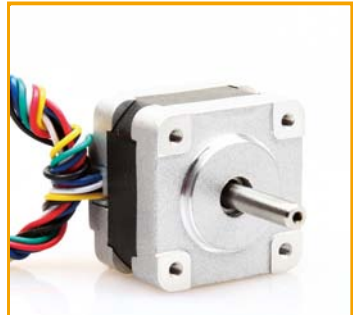


M 机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 11HS2XXX | 28mm |
| 11HS3XXX | 33mm |
| 11HS4XXX | 41mm |
| 11HS5XXX | 50mm |



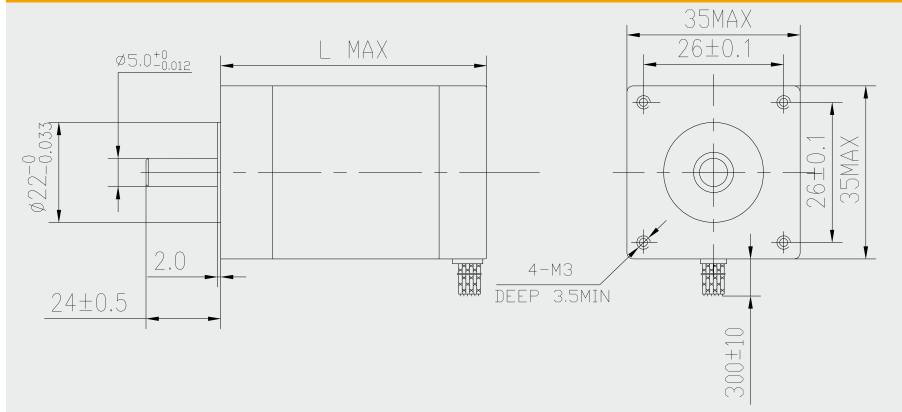
14HS系列 (35BYGH系列)  
混合式步进电机  
HYBRID STEPPER MOTOR



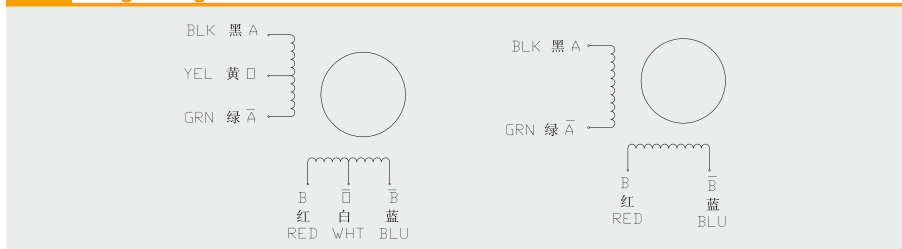
M 机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 14HS1XXX | 20mm |
| 14HS0XXX | 26mm |
| 14HS2XXX | 28mm |
| 14HS3XXX | 33mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

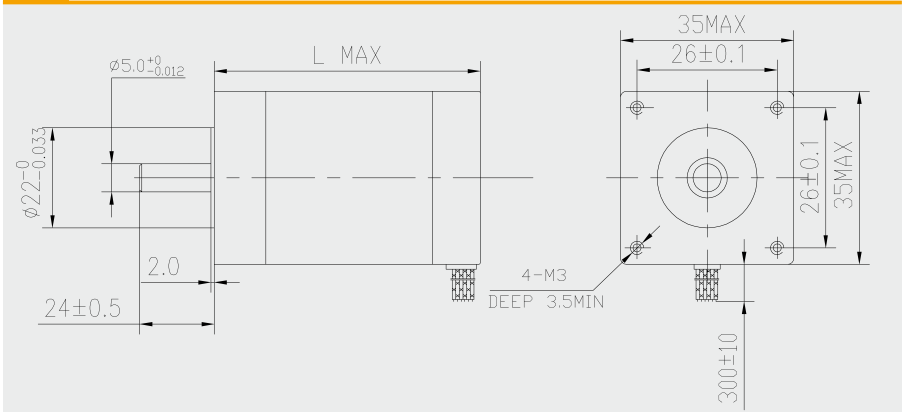


E 技术数据  
Electrical Specifications

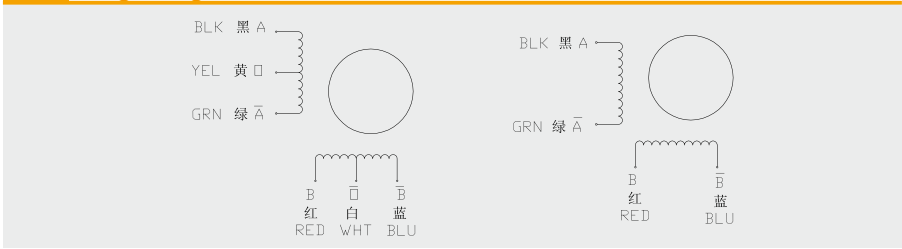
| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.cm) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(g) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|------------------------------------|----------------------------------------|------------------------------------|-------------------------------|------------------------------|
| 14HS1404             | 1.8                         | 20                             | 10.8                          | 0.4                           | 27                               | 17                                | 6.5                                | 0.5                                    | 8                                  | 4                             | 100                          |
| 14HS1605             | 1.8                         | 20                             | 12                            | 0.5                           | 24                               | 9                                 | 6.0                                | 0.8                                    | 8                                  | 6                             | 100                          |
| 14HS1407             | 1.8                         | 20                             | 6.57                          | 0.73                          | 9.0                              | 4.0                               | 6.0                                | 0.5                                    | 8                                  | 4                             | 100                          |
| 14HS0404             | 1.8                         | 26                             | 14                            | 0.4                           | 35                               | 16                                | 7.0                                | 0.6                                    | 10                                 | 4                             | 110                          |
| 14HS0408             | 1.8                         | 26                             | 3.2                           | 0.75                          | 4.3                              | 4                                 | 7.0                                | 0.6                                    | 10                                 | 4                             | 110                          |
| 14HS2604             | 1.8                         | 28                             | 12                            | 0.4                           | 30                               | 15                                | 12.5                               | 0.8                                    | 11                                 | 6                             | 120                          |
| 14HS2408             | 1.8                         | 28                             | 4.3                           | 0.8                           | 5.4                              | 7.6                               | 12.5                               | 0.8                                    | 11                                 | 4                             | 120                          |
| 14HS2410             | 1.8                         | 28                             | 3.5                           | 1.0                           | 3.5                              | 3.5                               | 12.5                               | 0.8                                    | 11                                 | 4                             | 140                          |
| 14HS3605             | 1.8                         | 33                             | 11                            | 0.5                           | 22                               | 14.2                              | 10                                 | 1.0                                    | 13                                 | 6                             | 170                          |
| 14HS3408             | 1.8                         | 33                             | 5.2                           | 0.8                           | 6.5                              | 9.8                               | 18                                 | 1.0                                    | 13                                 | 4                             | 160                          |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

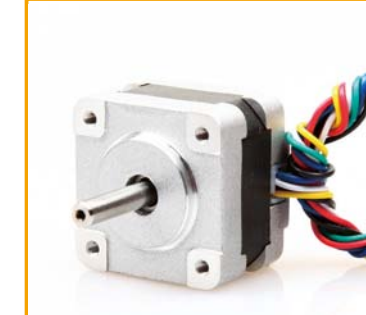


E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.cm) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(g) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|------------------------------------|----------------------------------------|------------------------------------|-------------------------------|------------------------------|
| 14HM2403             | 0.9                         | 28                             | 7.9                           | 0.36                          | 22                               | 20                                | 9                                  | 0.3                                    | 12                                 | 4                             | 130                          |
| 14HM2604             | 0.9                         | 28                             | 12                            | 0.4                           | 30                               | 12                                | 8                                  | 0.3                                    | 11                                 | 6                             | 150                          |
| 14HM2408             | 0.9                         | 28                             | 3.6                           | 0.8                           | 4.5                              | 4.2                               | 9                                  | 0.3                                    | 12                                 | 4                             | 130                          |
| 14HM3604             | 0.9                         | 33                             | 12                            | 0.4                           | 30                               | 18                                | 10                                 | 0.6                                    | 18                                 | 6                             | 190                          |
| 14HM3405             | 0.9                         | 33                             | 6.6                           | 0.55                          | 12                               | 19                                | 14                                 | 0.6                                    | 18                                 | 4                             | 190                          |
| 14HM3408             | 0.9                         | 33                             | 4.8                           | 0.8                           | 6.0                              | 10                                | 14                                 | 0.6                                    | 18                                 | 4                             | 190                          |

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14HM系列 (35BYGHM系列)  
混合式步进电机  
HYBRID STEPPER MOTOR



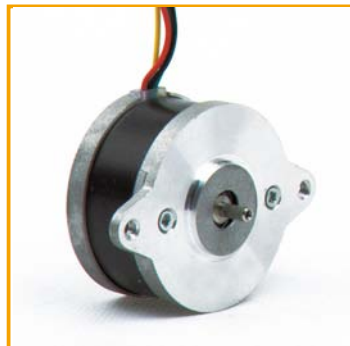
M 机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 14HM2XXX | 28mm |
| 14HM3XXX | 33mm |



15HS/15HM系列 (36BYGH系列)/(36BYGHM系列)

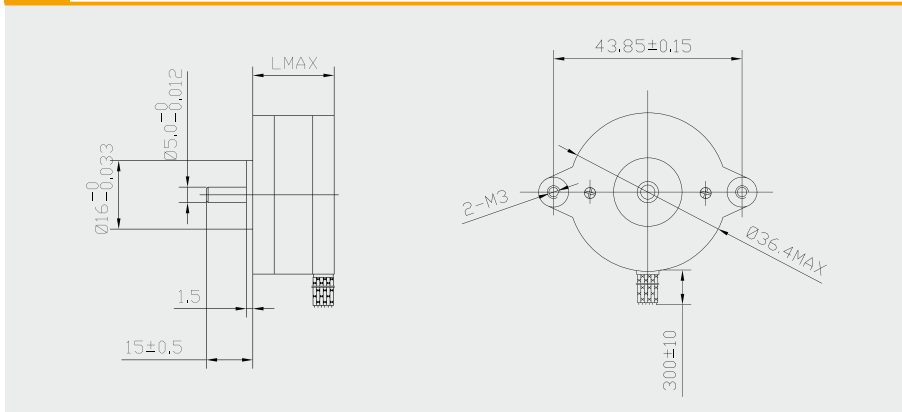
混合式步进电机  
HYBRID STEPPER MOTOR



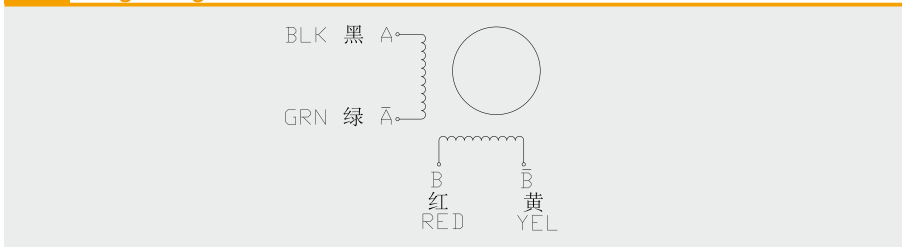
M 机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 15HS2XXX | 19mm |
| 15HM1XXX | 15mm |
| 15HM2XXX | 19mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

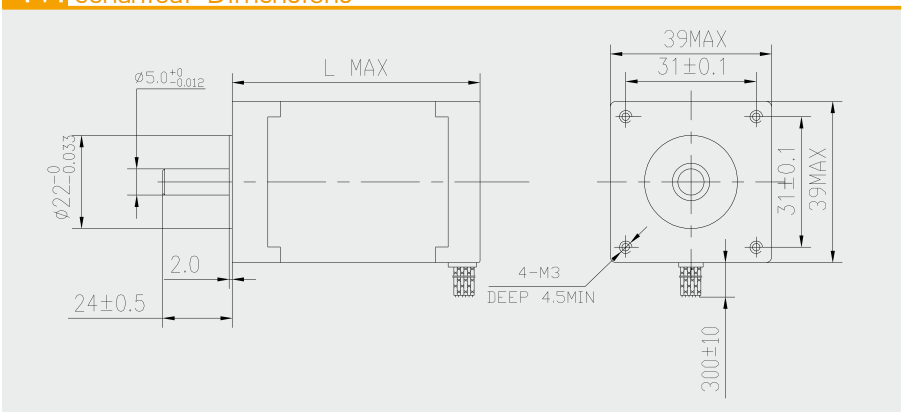


E 技术数据  
Electrical Specifications

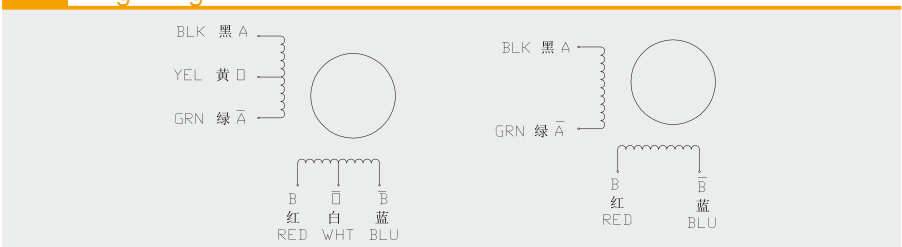
| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.cm) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(g) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|------------------------------------|----------------------------------------|------------------------------------|-------------------------------|------------------------------|
| 15HS2418             | 1.8                         | 19                             | 3.48                          | 1.88                          | 2.1                              | 1.2                               | 13                                 | 0.5                                    | 6.0                                | 4                             | 95                           |
| 15HM1403             | 0.9                         | 15                             | 5.0                           | 0.3                           | 16.8                             | 8.5                               | 3.6                                | 0.3                                    | 4.0                                | 4                             | 55                           |
| 15HM2404             | 0.9                         | 19                             | 6.7                           | 0.45                          | 15                               | 8.2                               | 8.8                                | 0.5                                    | 6.0                                | 4                             | 95                           |
| 15HM2418             | 0.9                         | 19                             | 3.0                           | 1.88                          | 1.6                              | 1.5                               | 10                                 | 0.5                                    | 6.0                                | 4                             | 95                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram



E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.cm) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(g) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|------------------------------------|----------------------------------------|------------------------------------|-------------------------------|------------------------------|
| 16HS2404             | 1.8                         | 20                             | 2.7                           | 0.4                           | 6.5                              | 5.4                               | 5.0                                | 0.5                                    | 11                                 | 4                             | 120                          |
| 16HS2405             | 1.8                         | 20                             | 12                            | 0.48                          | 25                               | 22                                | 10                                 | 0.5                                    | 11                                 | 4                             | 120                          |
| 16HS2417             | 1.8                         | 20                             | 2.8                           | 1.7                           | 1.65                             | 1.5                               | 12                                 | 0.5                                    | 11                                 | 4                             | 120                          |
| 16HS3404             | 1.8                         | 34                             | 12                            | 0.4                           | 30                               | 34.5                              | 22                                 | 1.2                                    | 20                                 | 4                             | 180                          |
| 16HS3406             | 1.8                         | 34                             | 9.0                           | 0.6                           | 15                               | 16                                | 22                                 | 1.2                                    | 20                                 | 4                             | 180                          |
| 16HS3410             | 1.8                         | 34                             | 5.0                           | 1.0                           | 5.0                              | 3.0                               | 20                                 | 1.2                                    | 20                                 | 4                             | 180                          |
| 16HS4604             | 1.8                         | 38                             | 12                            | 0.4                           | 30                               | 22                                | 18                                 | 1.2                                    | 24                                 | 6                             | 210                          |
| 16HS4406             | 1.8                         | 38                             | 7.5                           | 0.6                           | 12                               | 20                                | 24                                 | 1.2                                    | 24                                 | 4                             | 210                          |
| 16HS4412             | 1.8                         | 38                             | 4.56                          | 1.2                           | 3.8                              | 6.5                               | 24                                 | 1.2                                    | 24                                 | 4                             | 210                          |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

16HS系列 (39BYGH系列)

混合式步进电机  
HYBRID STEPPER MOTOR

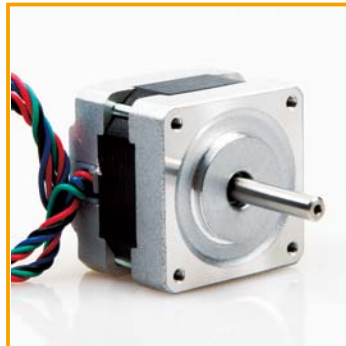


M 机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 16HS2XXX | 20mm |
| 16HS3XXX | 34mm |
| 16HS4XXX | 38mm |



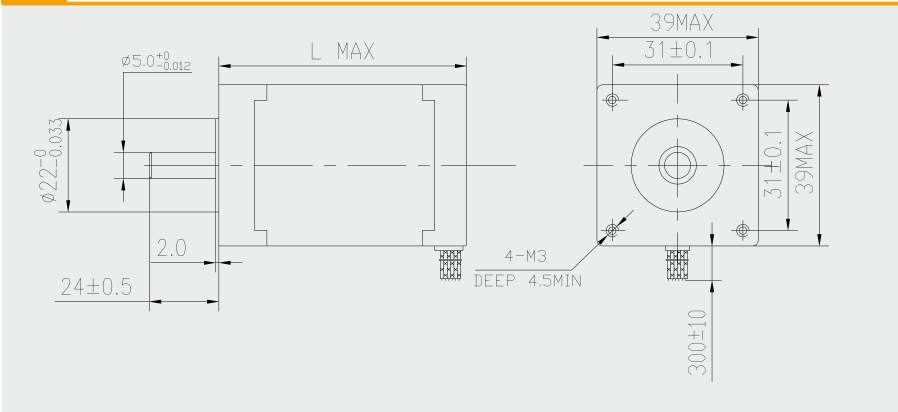
16HM系列 (39BYGHM系列)  
混合式步进电机  
HYBRID STEPPER MOTOR



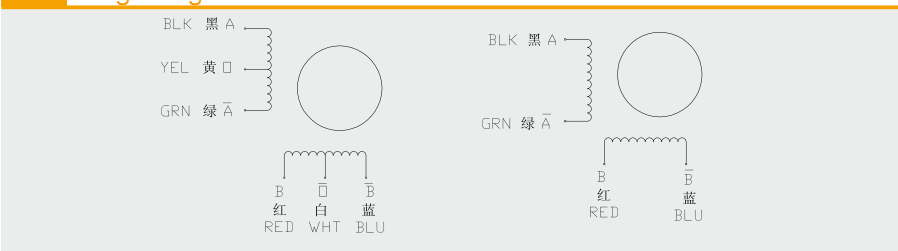
机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 16HM0XXX | 20mm |
| 16HM2XXX | 26mm |
| 16HM3XXX | 33mm |
| 16HM4XXX | 40mm |

外型图  
Mechanical Dimensions



接线图  
Wiring Diagram

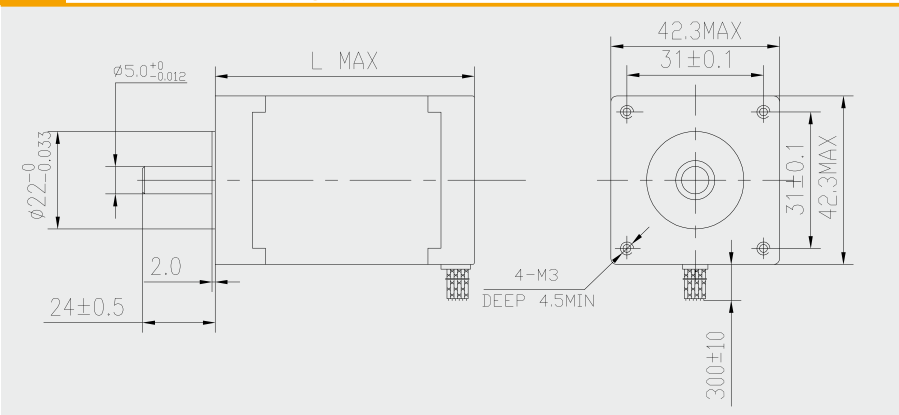


技术数据  
Electrical Specifications

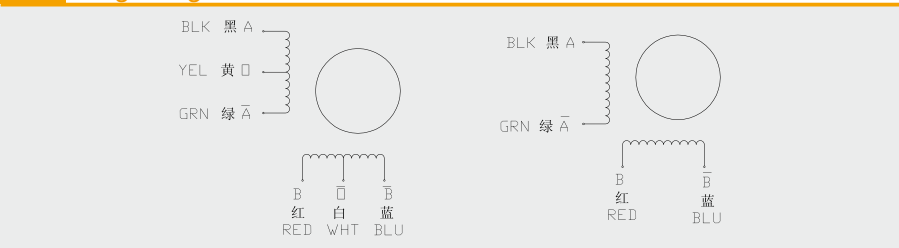
| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.cm) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(g) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|------------------------------------|----------------------------------------|------------------------------------|-------------------------------|------------------------------|
| 16HM0405             | 0.9                         | 20                             | 4.0                           | 0.5                           | 8.0                              | 8.4                               | 8.0                                | 0.5                                    | 15                                 | 4                             | 100                          |
| 16HM2605             | 0.9                         | 26                             | 12                            | 0.5                           | 24                               | 13                                | 10                                 | 0.95                                   | 11                                 | 6                             | 150                          |
| 16HM2406             | 0.9                         | 26                             | 5.4                           | 0.6                           | 9.0                              | 16                                | 14                                 | 0.8                                    | 18                                 | 4                             | 150                          |
| 16HM3604             | 0.9                         | 33                             | 12                            | 0.4                           | 30                               | 16                                | 12                                 | 1.1                                    | 23                                 | 6                             | 160                          |
| 16HM3406             | 0.9                         | 33                             | 5.4                           | 0.6                           | 9.0                              | 15                                | 16                                 | 1.1                                    | 23                                 | 4                             | 160                          |
| 16HM3412             | 0.9                         | 33                             | 3.0                           | 1.2                           | 2.5                              | 3.6                               | 16                                 | 1.1                                    | 23                                 | 4                             | 160                          |
| 16HM4604             | 0.9                         | 40                             | 12                            | 0.4                           | 30                               | 26                                | 18                                 | 1.4                                    | 30                                 | 6                             | 210                          |
| 16HM4406             | 0.9                         | 40                             | 7.2                           | 0.6                           | 12                               | 20                                | 22                                 | 1.4                                    | 30                                 | 4                             | 210                          |
| 16HM4412             | 0.9                         | 40                             | 3.84                          | 1.2                           | 3.2                              | 5.5                               | 22                                 | 1.4                                    | 30                                 | 4                             | 210                          |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

外型图  
Mechanical Dimensions



接线图  
Wiring Diagram

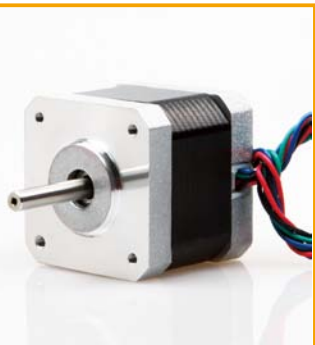


技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 17HS3404             | 1.8                         | 34                             | 12                            | 0.4                           | 30                               | 38                                | 0.32                              | 1.6                                    | 35                                 | 4                             | 0.22                          |
| 17HS3603             | 1.8                         | 34                             | 10.26                         | 0.3                           | 34.2                             | 25.5                              | 0.22                              | 2.0                                    | 34                                 | 6                             | 0.22                          |
| 17HS3413             | 1.8                         | 34                             | 3.26                          | 1.3                           | 2.45                             | 4.0                               | 0.3                               | 1.2                                    | 35                                 | 4                             | 0.22                          |
| 17HS4604             | 1.8                         | 40                             | 12                            | 0.4                           | 30                               | 28.2                              | 0.38                              | 1.5                                    | 54                                 | 6                             | 0.28                          |
| 17HS4404             | 1.8                         | 40                             | 5.0                           | 0.4                           | 12.5                             | 21                                | 0.22                              | 2.2                                    | 54                                 | 4                             | 0.28                          |
| 17HS4412             | 1.8                         | 40                             | 1.8                           | 1.2                           | 1.5                              | 2.8                               | 0.4                               | 2.2                                    | 54                                 | 4                             | 0.28                          |
| 17HS4612             | 1.8                         | 40                             | 3.6                           | 1.2                           | 3.0                              | 2.8                               | 0.4                               | 2.2                                    | 54                                 | 6                             | 0.28                          |
| 17HS4417             | 1.8                         | 40                             | 2.55                          | 1.7                           | 1.5                              | 2.8                               | 0.54                              | 2.2                                    | 54                                 | 4                             | 0.28                          |
| 17HS5604             | 1.8                         | 48                             | 12                            | 0.4                           | 30                               | 28                                | 0.4                               | 2.8                                    | 68                                 | 6                             | 0.36                          |
| 17HS5810             | 1.8                         | 48                             | 4.6                           | 1.0                           | 4.6                              | 4.0                               | 0.48                              | 2.8                                    | 68                                 | 8                             | 0.36                          |
| 17HS5413             | 1.8                         | 48                             | 4.16                          | 1.3                           | 3.2                              | 5.5                               | 0.52                              | 2.8                                    | 68                                 | 4                             | 0.36                          |
| 17HS5425             | 1.8                         | 48                             | 3.1                           | 2.5                           | 1.25                             | 1.8                               | 0.58                              | 2.8                                    | 68                                 | 4                             | 0.36                          |
| 17HS6415-D           | 1.8                         | 57                             | 3.75                          | 1.5                           | 2.5                              | 6.5                               | 0.7                               | 2.8                                    | 102                                | 4                             | 0.46                          |
| 17HS6409             | 1.8                         | 60                             | 4.25                          | 0.86                          | 4.94                             | 11.45                             | 0.7                               | 3.0                                    | 95                                 | 4                             | 0.48                          |
| 17HS6423-C           | 1.8                         | 64                             | 3.17                          | 2.3                           | 1.38                             | 2.57                              | 0.7                               | 3.0                                    | 110                                | 4                             | 0.5                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

17HS系列 (42BYGH系列)  
混合式步进电机  
HYBRID STEPPER MOTOR

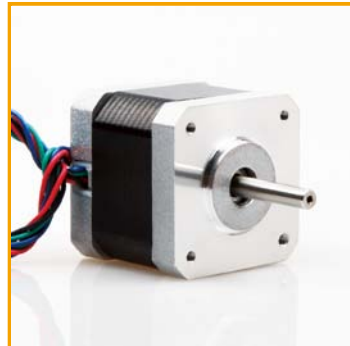


机身说明  
Motor Length

| 型号         | 机身长  |
|------------|------|
| 17HS3XXX   | 34mm |
| 17HS4XXX   | 40mm |
| 17HS5XXX   | 48mm |
| 17HS6XXX-D | 57mm |
| 17HS6XXX   | 60mm |
| 17HS6XXX-C | 64mm |



17HM系列 (42BYGHM系列)  
混合式步进电机  
HYBRID STEPPER MOTOR



M 机身说明  
Motor Length

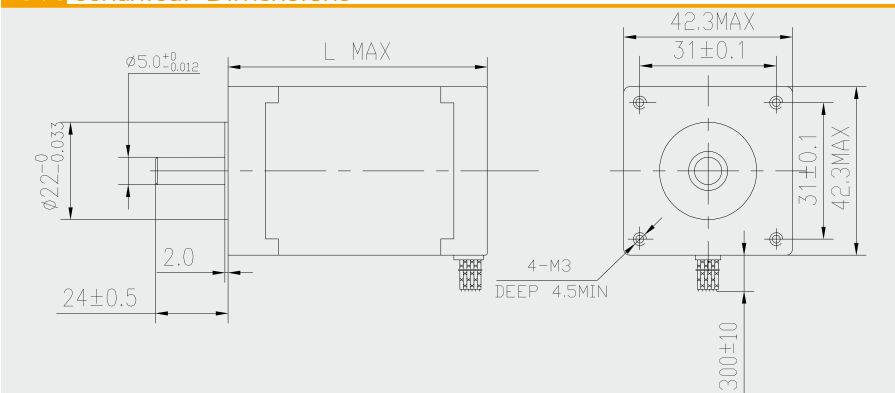
| 型号       | 机身长  |
|----------|------|
| 17HM3XXX | 33mm |
| 17HM4XXX | 40mm |
| 17HM5XXX | 48mm |

E 技术数据  
Electrical Specifications

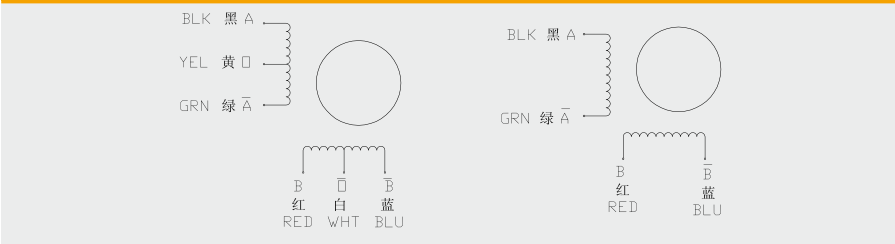
| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm <sup>2</sup> ) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|-------------------------------------------------|-------------------------------|-------------------------------|
| 17HM3404             | 0.9                         | 33                             | 3.12                          | 0.4                           | 7.8                              | 18.5                              | 0.2                               | 1.2                                    | 35                                              | 4                             | 0.22                          |
| 17HM3606             | 0.9                         | 33                             | 6.78                          | 0.6                           | 11.3                             | 11.3                              | 0.19                              | 2.0                                    | 35                                              | 6                             | 0.22                          |
| 17HM3412             | 0.9                         | 33                             | 3.24                          | 1.2                           | 2.7                              | 5.2                               | 0.23                              | 2.0                                    | 35                                              | 4                             | 0.22                          |
| 17HM4604             | 0.9                         | 40                             | 11.2                          | 0.4                           | 28                               | 30                                | 0.3                               | 2.2                                    | 54                                              | 6                             | 0.28                          |
| 17HM4608             | 0.9                         | 40                             | 5.44                          | 0.8                           | 6.8                              | 10.2                              | 0.3                               | 2.2                                    | 54                                              | 6                             | 0.28                          |
| 17HM4612             | 0.9                         | 40                             | 3.24                          | 1.2                           | 2.7                              | 3.8                               | 0.3                               | 2.2                                    | 54                                              | 6                             | 0.28                          |
| 17HM4417             | 0.9                         | 40                             | 2.38                          | 1.7                           | 1.4                              | 3.8                               | 0.38                              | 2.2                                    | 54                                              | 4                             | 0.28                          |
| 17HM5604             | 0.9                         | 48                             | 12                            | 0.4                           | 30                               | 28                                | 0.4                               | 2.5                                    | 68                                              | 6                             | 0.35                          |
| 17HM5417             | 0.9                         | 48                             | 3.06                          | 1.7                           | 1.8                              | 4.0                               | 0.4                               | 2.5                                    | 68                                              | 4                             | 0.35                          |
| 17HM5424             | 0.9                         | 48                             | 2.4                           | 2.4                           | 1.0                              | 1.8                               | 0.4                               | 2.5                                    | 68                                              | 4                             | 0.36                          |

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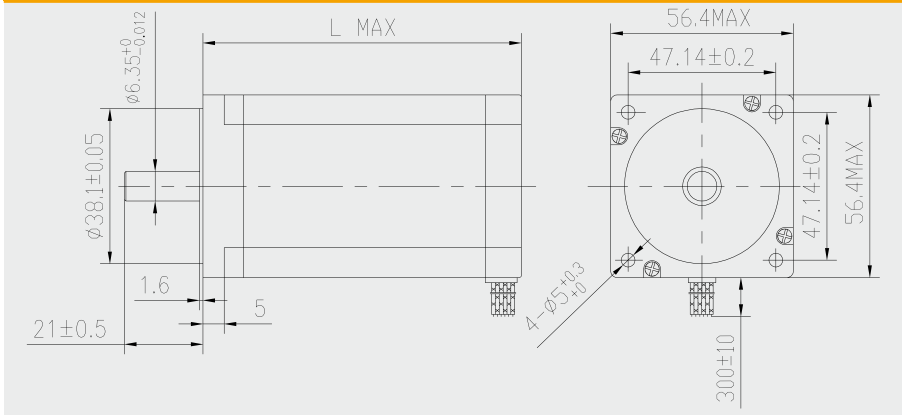
M 外型图  
Mechanical Dimensions



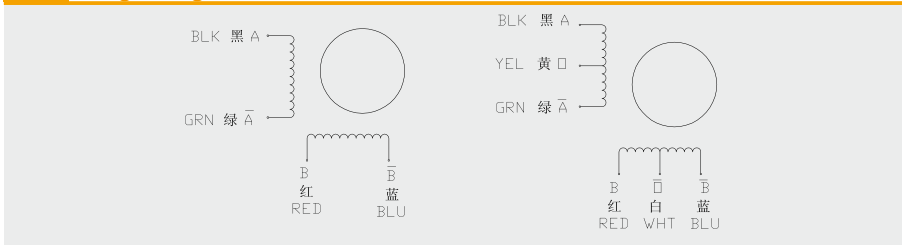
W 接线图  
Wiring Diagram



M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram



E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm <sup>2</sup> ) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|-------------------------------------------------|-------------------------------|-------------------------------|
| 23HS4415             | 1.8                         | 41                             | 2.7                           | 1.5                           | 1.8                              | 5.3                               | 0.58                              | 2.1                                    | 120                                             | 4                             | 0.45                          |
| 23HS4620             | 1.8                         | 41                             | 2.8                           | 2.0                           | 1.4                              | 1.4                               | 0.4                               | 2.1                                    | 120                                             | 6                             | 0.45                          |
| 23HS5610             | 1.8                         | 51                             | 5.0                           | 1.0                           | 5.0                              | 9.0                               | 0.7                               | 3.6                                    | 275                                             | 6                             | 0.65                          |
| 23HS5420             | 1.8                         | 51                             | 2.6                           | 2.0                           | 1.3                              | 5.1                               | 1.0                               | 3.6                                    | 275                                             | 4                             | 0.65                          |
| 23HS6608             | 1.8                         | 56                             | 12                            | 0.8                           | 15                               | 28                                | 0.9                               | 4.0                                    | 300                                             | 6                             | 0.7                           |
| 23HS6420             | 1.8                         | 56                             | 3.0                           | 2.0                           | 1.5                              | 5.5                               | 1.0                               | 4.0                                    | 300                                             | 4                             | 0.7                           |
| 23HS6620             | 1.8                         | 56                             | 3.6                           | 2                             | 1.4                              | 2.5                               | 0.9                               | 4.0                                    | 300                                             | 6                             | 0.7                           |
| 23HS6828             | 1.8                         | 56                             | 2.2                           | 2.8                           | 0.8                              | 1.2                               | 0.9                               | 4.0                                    | 300                                             | 8                             | 0.7                           |
| 23HS6430             | 1.8                         | 56                             | 2.4                           | 3                             | 0.7                              | 2.7                               | 1.2                               | 4.0                                    | 300                                             | 4                             | 0.7                           |
| 23HS6442             | 1.8                         | 56                             | 1.68                          | 4.2                           | 0.4                              | 1.2                               | 1.2                               | 4.0                                    | 300                                             | 4                             | 0.7                           |
| 23HS7410             | 1.8                         | 64                             | 7.7                           | 1.0                           | 7.7                              | 19.5                              | 1.28                              | 5.0                                    | 380                                             | 4                             | 0.85                          |
| 23HS7630             | 1.8                         | 64                             | 2.4                           | 3.0                           | 0.8                              | 1.4                               | 1.2                               | 5.0                                    | 380                                             | 6                             | 0.85                          |
| 23HS8610             | 1.8                         | 76                             | 8.0                           | 1.0                           | 8.0                              | 19                                | 1.45                              | 6.8                                    | 480                                             | 6                             | 1.0                           |
| 23HS8421             | 1.8                         | 76                             | 4.62                          | 2.1                           | 2.2                              | 8.5                               | 1.9                               | 6.8                                    | 480                                             | 4                             | 1.0                           |
| 23HS8828             | 1.8                         | 76                             | 2.8                           | 2.8                           | 1.0                              | 2.1                               | 1.45                              | 6.8                                    | 480                                             | 8                             | 1.0                           |
| 23HS8630             | 1.8                         | 76                             | 2.7                           | 3.0                           | 0.9                              | 1.8                               | 1.45                              | 6.8                                    | 480                                             | 6                             | 1.0                           |
| 23HS8430             | 1.8                         | 76                             | 2.7                           | 3.0                           | 0.9                              | 3.8                               | 1.9                               | 6.5                                    | 450                                             | 4                             | 1.05                          |
| 23HS8840-C           | 1.8                         | 80                             | 3.2                           | 4.0                           | 0.8                              | 1.8                               | 1.5                               | 6.8                                    | 480                                             | 8                             | 1.05                          |
| 23HS9410             | 1.8                         | 84                             | 9                             | 1.0                           | 9                                | 40                                | 2.3                               | 7.2                                    | 530                                             | 4                             | 1.2                           |
| 23HS9815             | 1.8                         | 84                             | 13.5                          | 1.5                           | 9                                | 40                                | 2.3                               | 7.2                                    | 530                                             | 8                             | 1.2                           |
| 23HS1430             | 1.8                         | 100                            | 4.2                           | 3.0                           | 1.4                              | 5.5                               | 3.0                               | 10                                     | 680                                             | 4                             | 1.5                           |
| 23HS1442             | 1.8                         | 100                            | 2.94                          | 4.2                           | 0.7                              | 3                                 | 3.0                               | 10                                     | 680                                             | 4                             | 1.5                           |
| 23HS2430             | 1.8                         | 112                            | 4.5                           | 3                             | 1.5                              | 7.0                               | 3.0                               | 12                                     | 800                                             | 4                             | 1.7                           |
| 23HS2442             | 1.8                         | 112                            | 3.36                          | 4.2                           | 0.8                              | 3.7                               | 3.0                               | 12                                     | 800                                             | 4                             | 1.7                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

23HS系列 (57BYGH系列)  
混合式步进电机  
HYBRID STEPPER MOTOR

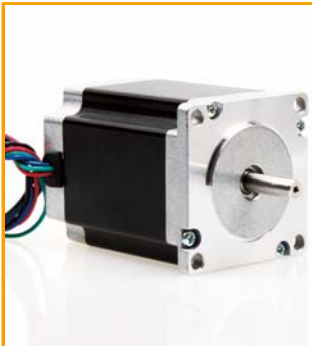


M 机身说明  
Motor Length

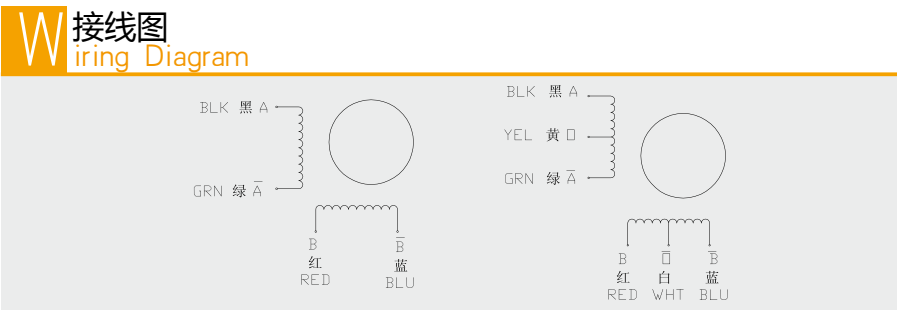
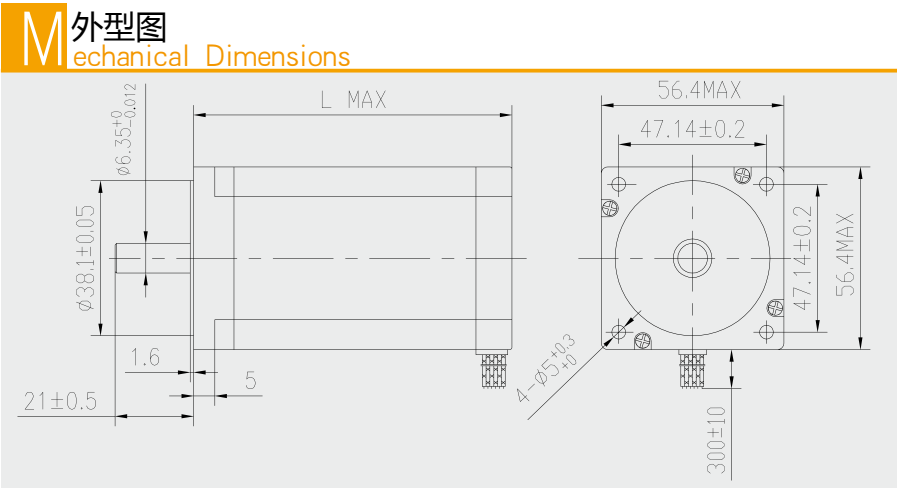
| 型号         | 机身长 |
|------------|-----|
| 23HS4XXX   | 41  |
| 23HS5XXX   | 51  |
| 23HS6XXX   | 56  |
| 23HS7XXX   | 64  |
| 23HS8XXX   | 76  |
| 23HS8XXX-C | 80  |
| 23HS9XXX   | 84  |
| 23HS1XXX   | 100 |
| 23HS2XXX   | 112 |



23HM系列 (57BYGHM系列)  
混合式步进电机  
HYBRID STEPPER MOTOR

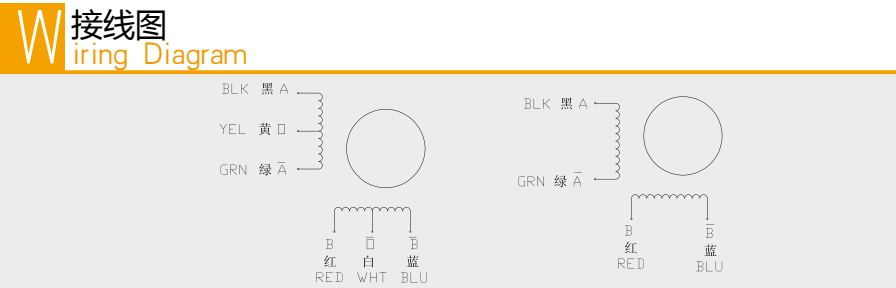
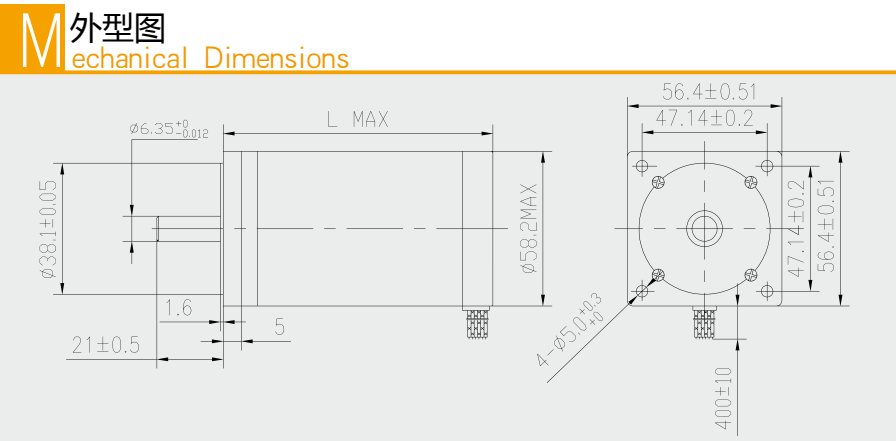


| M 机身说明<br>Motor Length |      |
|------------------------|------|
| 型号                     | 机身长  |
| 23HM4XXX               | 41mm |
| 23HM5XXX               | 51mm |
| 23HM6XXX               | 56mm |
| 23HM7XXX               | 64mm |
| 23HM8XXX               | 76mm |



| E 技术数据<br>Electrical Specifications |                             |                                |                               |                               |                                  |                                   |                                   |                                        |                                    |                               |                               |
|-------------------------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 型号<br>Series<br>Mode                | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
| 23HM4610                            | 0.9                         | 41                             | 4.2                           | 1.0                           | 4.2                              | 6.0                               | 0.24                              | 2.1                                    | 120                                | 6                             | 0.45                          |
| 23HM4620                            | 0.9                         | 41                             | 2.4                           | 2.0                           | 1.2                              | 2.1                               | 0.3                               | 2.1                                    | 120                                | 6                             | 0.45                          |
| 23HM5406                            | 0.9                         | 51                             | 6.6                           | 0.6                           | 11                               | 33                                | 0.9                               | 2.6                                    | 240                                | 4                             | 0.56                          |
| 23HM5417                            | 0.9                         | 51                             | 6.8                           | 1.7                           | 4                                | 14                                | 0.9                               | 2.6                                    | 240                                | 4                             | 0.56                          |
| 23HM6620                            | 0.9                         | 56                             | 3.26                          | 2.0                           | 1.65                             | 4.5                               | 1.0                               | 4.0                                    | 300                                | 6                             | 0.7                           |
| 23HM6430                            | 0.9                         | 56                             | 2.2                           | 3.0                           | 0.73                             | 3.0                               | 1.2                               | 4.0                                    | 300                                | 4                             | 0.7                           |
| 23HM6442                            | 0.9                         | 56                             | 1.68                          | 4.2                           | 0.4                              | 1.5                               | 1.25                              | 4.0                                    | 300                                | 4                             | 0.7                           |
| 23HM7410                            | 0.9                         | 64                             | 7.8                           | 1.0                           | 7.8                              | 29.2                              | 1.2                               | 5.0                                    | 380                                | 4                             | 0.85                          |
| 23HM7442                            | 0.9                         | 64                             | 1.8                           | 4.2                           | 0.43                             | 1.6                               | 1.2                               | 5.0                                    | 380                                | 4                             | 0.85                          |
| 23HM8610                            | 0.9                         | 76                             | 8.6                           | 1.0                           | 8.6                              | 23.2                              | 1.35                              | 6.8                                    | 440                                | 6                             | 1.05                          |
| 23HM8425                            | 0.9                         | 76                             | 4.5                           | 2.5                           | 1.8                              | 8.8                               | 1.5                               | 6.8                                    | 440                                | 4                             | 1.05                          |
| 23HM8442                            | 0.9                         | 76                             | 2.1                           | 4.2                           | 0.51                             | 2.4                               | 1.8                               | 6.8                                    | 440                                | 4                             | 1.05                          |

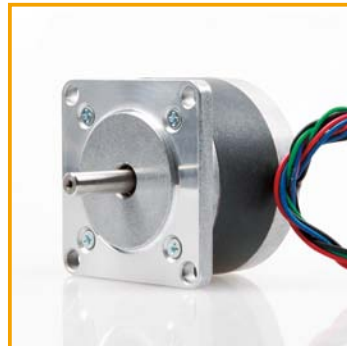
\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.



| E 技术数据<br>Electrical Specifications |                             |                                |                               |                               |                                  |                                   |                                   |                                        |                                    |                               |                               |
|-------------------------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 型号<br>Series<br>Mode                | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
| 23HY4604                            | 1.8                         | 41                             | 12                            | 0.4                           | 30                               | 30                                | 0.28                              | 1.8                                    | 57                                 | 6                             | 0.54                          |
| 23HY4415                            | 1.8                         | 41                             | 2.85                          | 1.5                           | 1.9                              | 4.0                               | 0.3                               | 3.5                                    | 57                                 | 4                             | 0.45                          |
| 23HY4421                            | 1.8                         | 41                             | 1.68                          | 2.1                           | 0.8                              | 1.4                               | 0.32                              | 3.5                                    | 60                                 | 4                             | 0.45                          |
| 23HY5604                            | 1.8                         | 51                             | 12                            | 0.42                          | 29                               | 36                                | 0.5                               | 3.5                                    | 110                                | 6                             | 0.6                           |
| 23HY5415                            | 1.8                         | 51                             | 3.75                          | 1.5                           | 2.5                              | 6.0                               | 0.6                               | 5.5                                    | 110                                | 4                             | 0.6                           |
| 23HY5420                            | 1.8                         | 51                             | 2.6                           | 2                             | 1.3                              | 3.2                               | 0.6                               | 5.5                                    | 118                                | 4                             | 0.6                           |
| 23HY6606                            | 1.8                         | 56                             | 12                            | 0.6                           | 20                               | 20                                | 0.6                               | 6.5                                    | 145                                | 6                             | 0.65                          |
| 23HY6612                            | 1.8                         | 56                             | 6                             | 1.2                           | 5                                | 6.8                               | 0.6                               | 6.5                                    | 145                                | 6                             | 0.65                          |
| 23HY6428                            | 1.8                         | 56                             | 2.0                           | 2.8                           | 0.72                             | 1.8                               | 0.8                               | 6.5                                    | 145                                | 4                             | 0.65                          |
| 23HY7606                            | 1.8                         | 76                             | 12                            | 0.68                          | 17.7                             | 30                                | 0.9                               | 7.2                                    | 200                                | 6                             | 0.95                          |
| 23HY7421                            | 1.8                         | 76                             | 4.62                          | 2.1                           | 2.2                              | 6.2                               | 1.1                               | 9.5                                    | 230                                | 4                             | 0.8                           |
| 23HY7442                            | 1.8                         | 76                             | 3.74                          | 2.2                           | 1.7                              | 6.0                               | 1.1                               | 9.5                                    | 230                                | 4                             | 0.8                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

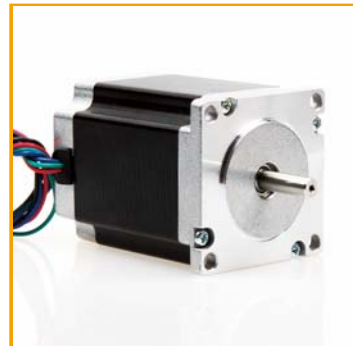
23HY系列 (57BYG系列)  
混合式步进电机  
HYBRID STEPPER MOTOR



| M 机身说明<br>Motor Length |      |
|------------------------|------|
| 型号                     | 机身长  |
| 23HY4XXX               | 41mm |
| 23HY5XXX               | 51mm |
| 23HY6XXX               | 56mm |
| 23HY7XXX               | 76mm |



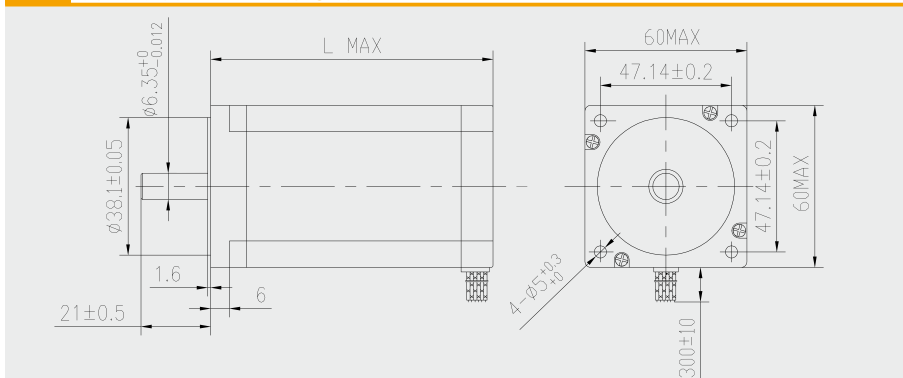
24HS系列 (60BYGH系列)  
混合式步进电机  
HYBRID STEPPER MOTOR



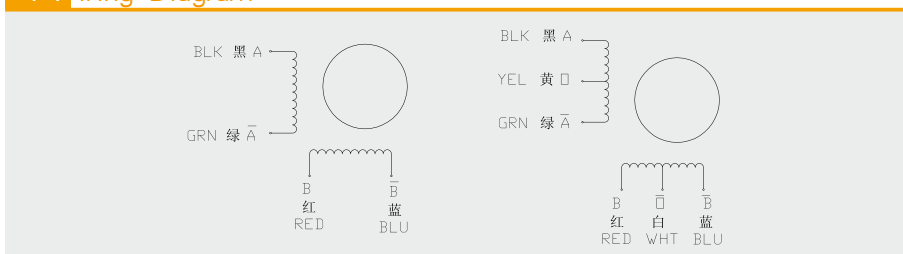
M 机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 24HS4XXX | 45mm |
| 24HS5XXX | 56mm |
| 24HS6XXX | 64mm |
| 24HS7XXX | 76mm |
| 24HS9XXX | 90mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

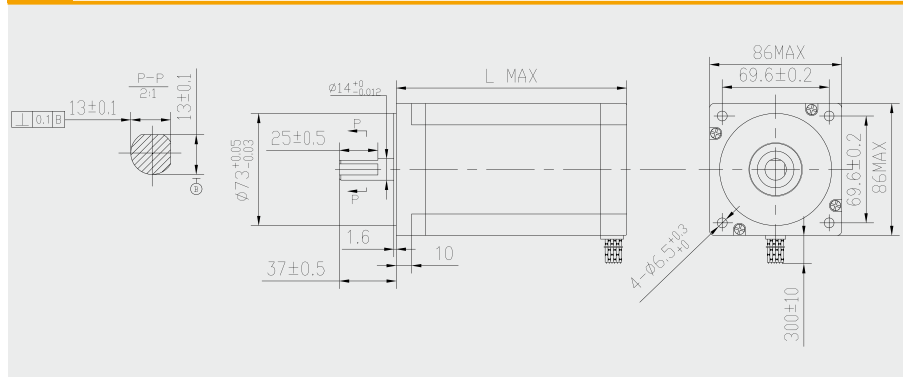


E 技术数据  
Electrical Specifications

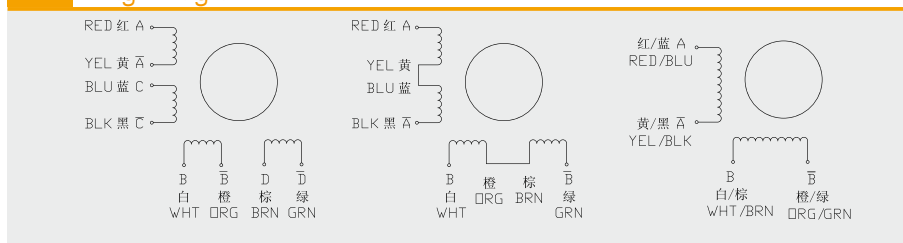
| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 24HS4425             | 1.8                         | 45                             | 2.5                           | 2.5                           | 1.0                              | 2.2                               | 0.85                              | 3.5                                    | 200                                | 4                             | 0.55                          |
| 24HS5425             | 1.8                         | 56                             | 3.1                           | 2.5                           | 1.25                             | 4.2                               | 1.6                               | 4.0                                    | 350                                | 4                             | 0.58                          |
| 24HS5430             | 1.8                         | 56                             | 2.4                           | 3                             | 0.8                              | 2.4                               | 1.6                               | 4.0                                    | 350                                | 4                             | 0.58                          |
| 24HS5442             | 1.8                         | 56                             | 1.68                          | 4.2                           | 0.4                              | 1.2                               | 1.6                               | 4.0                                    | 350                                | 4                             | 0.58                          |
| 24HS6425             | 1.8                         | 64                             | 3.75                          | 2.5                           | 1.5                              | 4.5                               | 1.8                               | 5.0                                    | 450                                | 4                             | 0.85                          |
| 24HS6430             | 1.8                         | 64                             | 2.4                           | 3                             | 0.8                              | 2.3                               | 1.8                               | 5.0                                    | 450                                | 4                             | 0.85                          |
| 24HS6442             | 1.8                         | 64                             | 2.3                           | 4.2                           | 0.55                             | 1.2                               | 1.8                               | 5                                      | 450                                | 4                             | 0.85                          |
| 24HS7425             | 1.8                         | 76                             | 4.5                           | 2.5                           | 1.8                              | 6.2                               | 2.2                               | 7.0                                    | 550                                | 4                             | 1.15                          |
| 24HS7430             | 1.8                         | 76                             | 3.0                           | 3.0                           | 1.0                              | 3.5                               | 2.2                               | 7.0                                    | 550                                | 4                             | 1.15                          |
| 24HS9430             | 1.8                         | 90                             | 4.2                           | 3.01                          | 1.4                              | 5.5                               | 2.6                               | 12                                     | 780                                | 4                             | 1.4                           |
| 24HS9442             | 1.8                         | 90                             | 5.0                           | 4.2                           | 1.2                              | 5.0                               | 2.6                               | 12                                     | 780                                | 4                             | 1.4                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram



E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 34HS6828             | 1.8                         | 68                             | 3.9                           | 2.8                           | 1.4                              | 3.9                               | 3.5                               | 5.5                                    | 850                                | 8                             | 1.7                           |
| 34HS6459             | 1.8                         | 68                             | 1.5                           | 5.9                           | 0.25                             | 1.6                               | 3.5                               | 5.5                                    | 850                                | 4                             | 1.7                           |
| 34HS7440             | 1.8                         | 80                             | 1.6                           | 4.0                           | 0.41                             | 2.5                               | 4.0                               | 6.5                                    | 1400                               | 4                             | 2.3                           |
| 34HS7840             | 1.8                         | 80                             | 2.8                           | 4.0                           | 0.7                              | 3.0                               | 4.0                               | 6.5                                    | 1400                               | 8                             | 2.3                           |
| 34HS7456             | 1.8                         | 80                             | 1.9                           | 5.6                           | 0.34                             | 2.9                               | 4.0                               | 6.5                                    | 1400                               | 4                             | 2.3                           |
| 34HS9820             | 1.8                         | 98                             | 6.4                           | 2.0                           | 3.2                              | 15                                | 7.0                               | 9.5                                    | 1700                               | 8                             | 3.0                           |
| 34HS9840             | 1.8                         | 98                             | 3.2                           | 4.0                           | 0.8                              | 3.5                               | 7.0                               | 9.5                                    | 1700                               | 8                             | 3.0                           |
| 34HS9456             | 1.8                         | 98                             | 2.1                           | 5.6                           | 0.39                             | 3.76                              | 7.5                               | 9.5                                    | 1700                               | 4                             | 3.0                           |
| 34HS1435             | 1.8                         | 116                            | 1.9                           | 3.5                           | 0.55                             | 6.5                               | 8.4                               | 12.5                                   | 2200                               | 4                             | 3.8                           |
| 34HS1456             | 1.8                         | 116                            | 2.8                           | 5.6                           | 0.5                              | 5.5                               | 8.4                               | 12.5                                   | 2200                               | 4                             | 3.8                           |
| 34HS1849             | 1.8                         | 116                            | 4.6                           | 4.9                           | 0.95                             | 5.2                               | 8.5                               | 12.5                                   | 2200                               | 8                             | 3.8                           |
| 34HS1860             | 1.8                         | 116                            | 3.6                           | 6.0                           | 0.6                              | 3.3                               | 9.0                               | 12.5                                   | 2200                               | 8                             | 3.8                           |
| 34HS2840             | 1.8                         | 126                            | 5.0                           | 4.0                           | 1.26                             | 5.6                               | 10                                | 18.2                                   | 2700                               | 8                             | 4.0                           |
| 34HS5435             | 1.8                         | 151                            | 5.6                           | 3.5                           | 1.6                              | 20                                | 10.5                              | 24.5                                   | 3600                               | 4                             | 5.0                           |
| 34HS5860             | 1.8                         | 151                            | 4.9                           | 6.0                           | 0.82                             | 4.8                               | 10.5                              | 24.5                                   | 3600                               | 8                             | 5.0                           |
| 34HS5460             | 1.8                         | 151                            | 3.6                           | 6.0                           | 0.6                              | 8                                 | 11                                | 24.5                                   | 3600                               | 4                             | 5.0                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

34HS系列 (86BYGH系列)  
混合式步进电机  
HYBRID STEPPER MOTOR

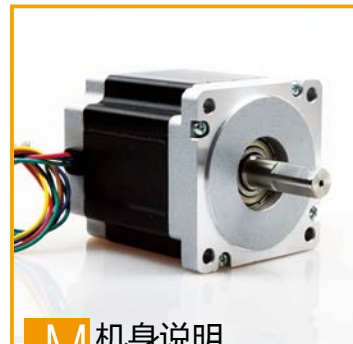


M 机身说明  
Motor Length

| 型号       | 机身长   |
|----------|-------|
| 34HS6XXX | 66mm  |
| 34HS7XXX | 80mm  |
| 34HS9XXX | 98mm  |
| 34HS1XXX | 116mm |
| 34HS2XXX | 126mm |
| 34HS5XXX | 151mm |



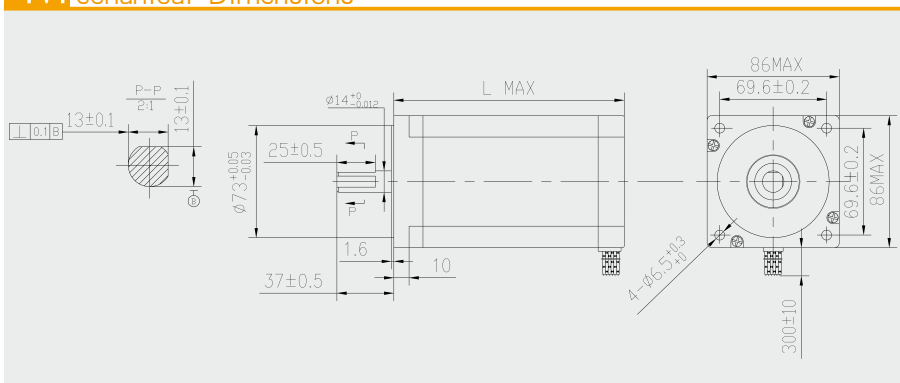
34HM系列 (86BYGHM系列)  
混合式步进电机  
HYBRID STEPPER MOTOR



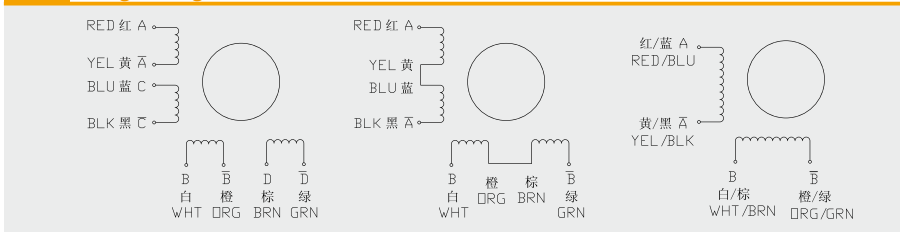
M 机身说明  
Motor Length

| 型号       | 机身长   |
|----------|-------|
| 34HM6XXX | 66mm  |
| 34HM7XXX | 78mm  |
| 34HM9XXX | 98mm  |
| 34HM1XXX | 116mm |
| 34HM2XXX | 126mm |
| 34HM5XXX | 151mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

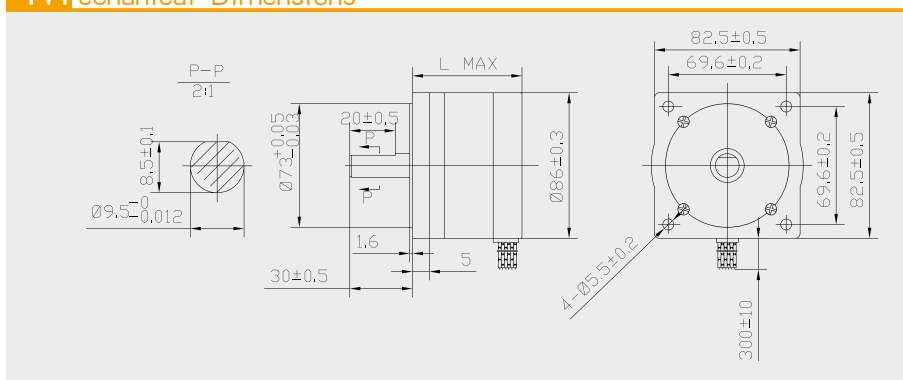


E 技术数据  
Electrical Specifications

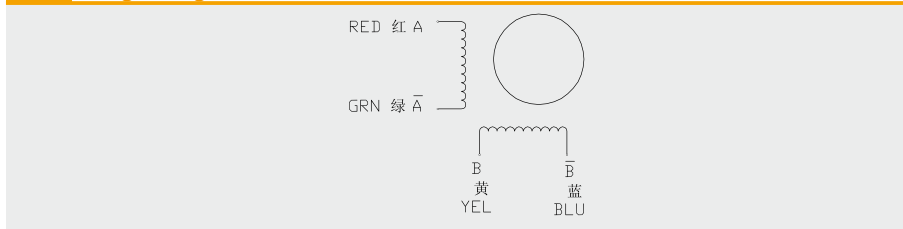
| 型号<br>Series<br>Model | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|-----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 34HM6827              | 0.9                         | 68                             | 3.24                          | 2.7                           | 1.2                              | 3.5                               | 2.0                               | 5.0                                    | 850                                | 8                             | 2.0                           |
| 34HM6840              | 0.9                         | 68                             | 2.0                           | 4.0                           | 0.5                              | 2.0                               | 2.5                               | 5.0                                    | 850                                | 8                             | 2.0                           |
| 34HM7827              | 0.9                         | 78                             | 4.32                          | 2.7                           | 1.6                              | 5.6                               | 2.7                               | 5.8                                    | 1050                               | 8                             | 2.5                           |
| 34HM7840              | 0.9                         | 78                             | 2.8                           | 4.0                           | 0.7                              | 3.0                               | 2.7                               | 5.8                                    | 1050                               | 8                             | 2.5                           |
| 34HM9840              | 0.9                         | 98                             | 2.8                           | 4.0                           | 0.7                              | 4.55                              | 4.5                               | 8.5                                    | 1550                               | 8                             | 3.0                           |
| 34HM9850              | 0.9                         | 98                             | 2.5                           | 5.0                           | 0.5                              | 2.4                               | 4.5                               | 8.5                                    | 1550                               | 8                             | 3.0                           |
| 34HM1827              | 0.9                         | 116                            | 5.4                           | 2.7                           | 2.0                              | 11.5                              | 5.2                               | 11                                     | 1800                               | 8                             | 3.8                           |
| 34HM1840              | 0.9                         | 116                            | 4.4                           | 4.0                           | 1.1                              | 5.5                               | 5.2                               | 11                                     | 1800                               | 8                             | 3.8                           |
| 34HM2827              | 0.9                         | 126                            | 6.75                          | 2.7                           | 2.5                              | 12.5                              | 5.8                               | 16.5                                   | 2200                               | 8                             | 4.0                           |
| 34HM2840              | 0.9                         | 126                            | 5.2                           | 4.0                           | 1.3                              | 5.8                               | 5.8                               | 16.5                                   | 2200                               | 8                             | 4.0                           |
| 34HM5827              | 0.9                         | 151                            | 7.83                          | 2.7                           | 2.9                              | 17.5                              | 7.8                               | 20.5                                   | 2500                               | 8                             | 5.0                           |
| 34HM5840              | 0.9                         | 151                            | 5.6                           | 4.0                           | 1.4                              | 9.2                               | 7.8                               | 20.5                                   | 2500                               | 8                             | 5.0                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

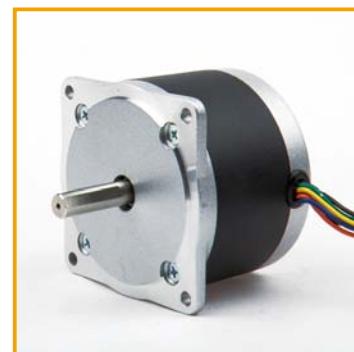


E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Model | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|-----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 34HY6812              | 1.8                         | 63                             | 5.0                           | 1.25                          | 4.0                              | 14                                | 1.6                               | 0.8                                    | 560                                | 8                             | 2.0                           |
| 34HY6429              | 1.8                         | 63                             | 2.61                          | 2.9                           | 0.9                              | 7.0                               | 2.0                               | 0.8                                    | 640                                | 4                             | 2.0                           |
| 34HY6830              | 1.8                         | 63                             | 3.0                           | 3.0                           | 1.0                              | 4.5                               | 1.8                               | 0.8                                    | 640                                | 8                             | 2.0                           |
| 34HY9416              | 1.8                         | 92                             | 6.27                          | 1.65                          | 3.8                              | 24                                | 4.0                               | 1.3                                    | 1200                               | 4                             | 2.6                           |
| 34HY9440              | 1.8                         | 92                             | 2.8                           | 4.0                           | 0.7                              | 9.8                               | 4.1                               | 1.5                                    | 1300                               | 4                             | 2.6                           |
| 34HY9846              | 1.8                         | 92                             | 2.3                           | 4.6                           | 0.5                              | 2.6                               | 4.2                               | 1.5                                    | 1300                               | 8                             | 2.6                           |
| 34HY1835              | 1.8                         | 122                            | 1.2                           | 3.5                           | 1.2                              | 5.2                               | 5.0                               | 2.5                                    | 1900                               | 8                             | 3.8                           |
| 34HY1840              | 1.8                         | 122                            | 4.0                           | 4.0                           | 1.0                              | 6.0                               | 5.0                               | 2.5                                    | 1600                               | 8                             | 3.8                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

34HY系列 (86BYG系列)  
混合式步进电机  
HYBRID STEPPER MOTOR

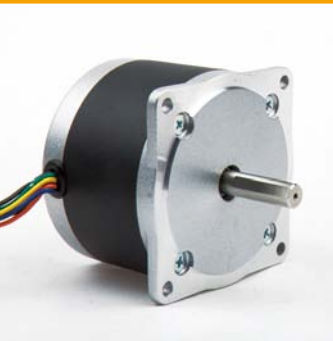


M 机身说明  
Motor Length

| 型号       | 机身长   |
|----------|-------|
| 34HY6XXX | 63mm  |
| 34HY9XXX | 92mm  |
| 34HY1XXX | 122mm |



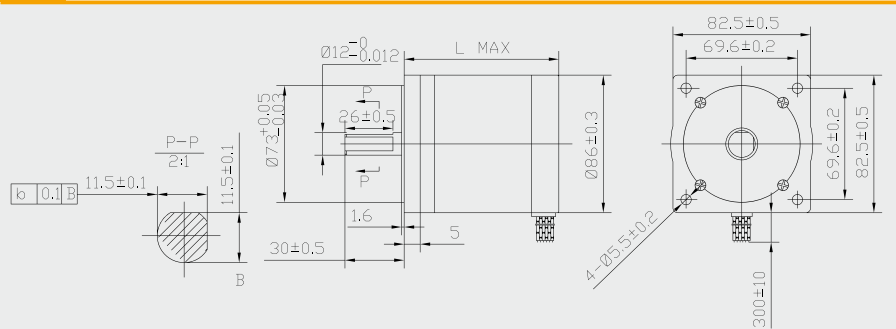
34HD系列 (86BYX系列)  
混合式步进电机  
HYBRID STEPPER MOTOR



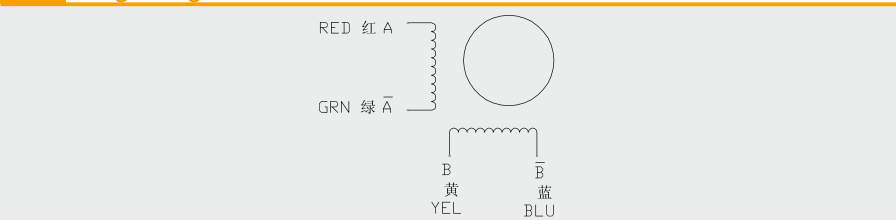
M 机身说明  
Motor Length

| 型号       | 机身长   |
|----------|-------|
| 34HD6XXX | 66mm  |
| 34HD9XXX | 97mm  |
| 34HD1XXX | 129mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

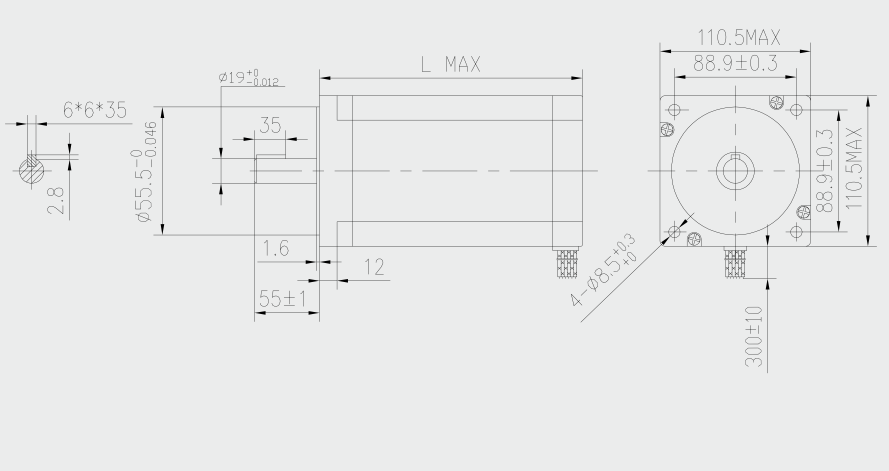


E 技术数据  
Electrical Specifications

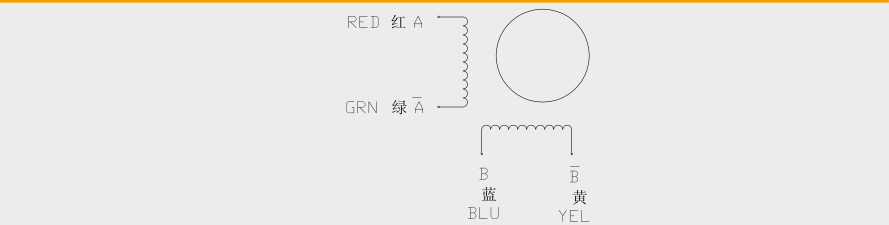
| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 34HD6620             | 1.8                         | 66                             | 4.0                           | 2.0                           | 2.0                              | 6.0                               | 2.3                               | 0.85                                   | 660                                | 6                             | 1.6                           |
| 34HD9416             | 1.8                         | 97                             | 6.27                          | 1.65                          | 3.8                              | 24                                | 5.2                               | 1.3                                    | 1200                               | 4                             | 2.5                           |
| 34HD9430             | 1.8                         | 97                             | 3.9                           | 3.0                           | 1.3                              | 7.5                               | 5.1                               | 4.0                                    | 1200                               | 4                             | 2.5                           |
| 34HD9440             | 1.8                         | 97                             | 3.2                           | 4.0                           | 0.8                              | 5.2                               | 5.4                               | 1.3                                    | 1200                               | 4                             | 2.5                           |
| 34HD1640             | 1.8                         | 129                            | 6.0                           | 4.0                           | 1.5                              | 6.0                               | 7.6                               | 2.3                                    | 1800                               | 6                             | 3.6                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

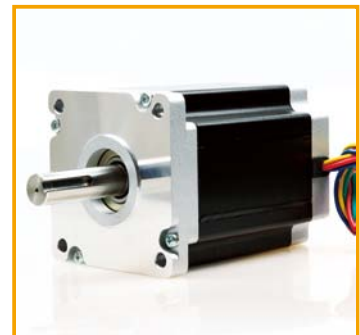


E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.m Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(kg) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|---------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 42HS9460             | 1.8                         | 100                            | 2.75                          | 6.0                           | 0.5                              | 6.0                               | 12.5                              | 3                                     | 5500                               | 4                             | 5                             |
| 42HS0460             | 1.8                         | 115                            | 2.2                           | 6.0                           | 0.37                             | 4.9                               | 15                                | 3                                     | 7200                               | 4                             | 6                             |
| 42HS1460             | 1.8                         | 150                            | 4.8                           | 6.0                           | 0.8                              | 15                                | 23                                | 5.9                                   | 10900                              | 4                             | 8.4                           |
| 42HS2465             | 1.8                         | 201                            | 7.8                           | 6.5                           | 1.2                              | 22                                | 28                                | 9.5                                   | 16200                              | 4                             | 11.7                          |
| 42HS2480             | 1.8                         | 201                            | 5.6                           | 8.0                           | 0.7                              | 14                                | 28                                | 9.5                                   | 16200                              | 4                             | 11.7                          |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

42HS系列 (110BYGH系列)  
混合式步进电机  
HYBRID STEPPER MOTOR

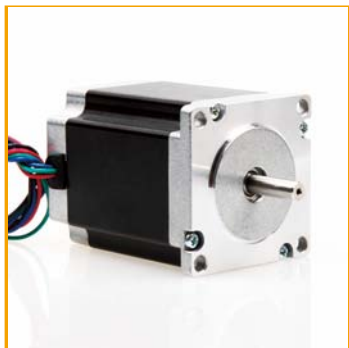


M 机身说明  
Motor Length

| 型号       | 机身长   |
|----------|-------|
| 42HS9XXX | 100mm |
| 42HS0XXX | 115mm |
| 42HS1XXX | 150mm |
| 42HS2XXX | 201mm |



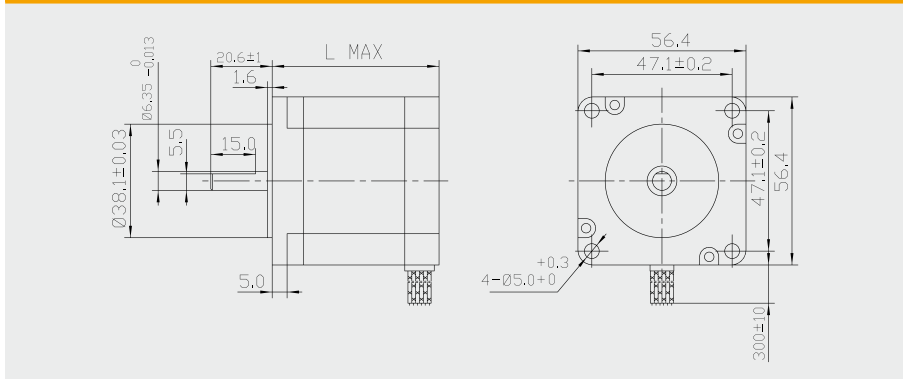
23HT系列  
三相混合式步进电机  
3-PHASE STEPPER MOTOR



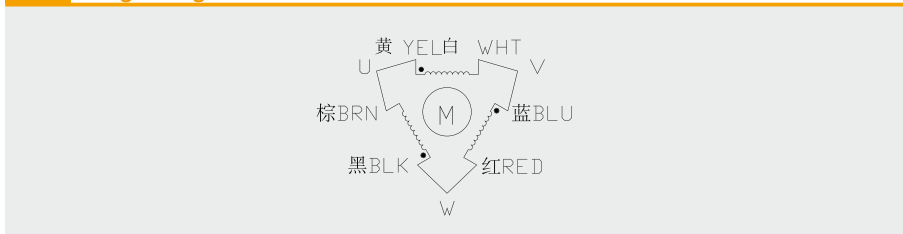
M 机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 23HT4XXX | 42mm |
| 23HT5XXX | 56mm |
| 23HT7XXX | 79mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

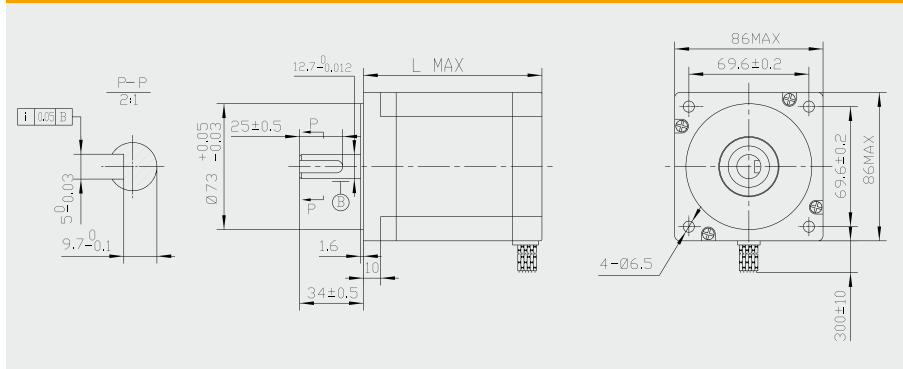


E 技术数据  
Electrical Specifications

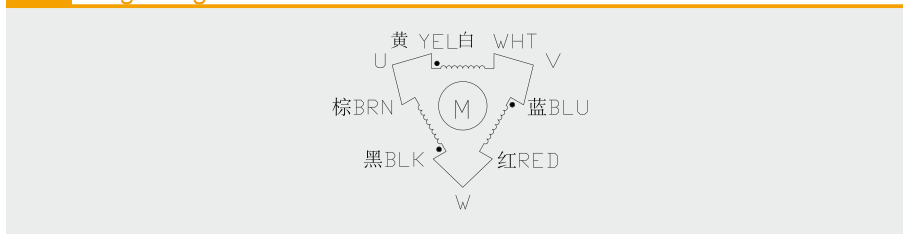
| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 23HT4652             | 1.2                         | 42                             | 6.76                          | 5.2                           | 1.3                              | 1.4                               | 0.45                              | 2.1                                    | 110                                | 6                             | 0.45                          |
| 23HT5635             | 1.2                         | 56                             | 2.8                           | 3.5                           | 0.8                              | 1.7                               | 0.9                               | 4.0                                    | 300                                | 6                             | 0.75                          |
| 23HT7652             | 1.2                         | 79                             | 4.68                          | 5.2                           | 0.9                              | 1.35                              | 1.5                               | 6.8                                    | 480                                | 6                             | 1.1                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram



E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 34HT6617             | 1.2                         | 67                             | 7.4                           | 1.75                          | 4.25                             | 12.3                              | 2.7                               | 8.0                                    | 1100                               | 6                             | 1.65                          |
| 34HT7650             | 1.2                         | 73                             | 4.8                           | 5.0                           | 0.96                             | 2.4                               | 3.2                               | 9.0                                    | 1300                               | 6                             | 2.0                           |
| 34HT9620             | 1.2                         | 97                             | 10.8                          | 2.0                           | 5.4                              | 23                                | 4.7                               | 15                                     | 2200                               | 6                             | 2.7                           |
| 34HT9658             | 1.2                         | 97                             | 5.22                          | 5.8                           | 0.9                              | 3.2                               | 4.7                               | 15                                     | 2200                               | 6                             | 2.7                           |
| 34HT1650             | 1.2                         | 105                            | 6.0                           | 5.0                           | 1.2                              | 4.2                               | 5.4                               | 20                                     | 2500                               | 6                             | 3.2                           |
| 34HT2623             | 1.2                         | 127                            | 13.8                          | 2.3                           | 6.0                              | 25                                | 8.0                               | 30                                     | 3300                               | 6                             | 4.0                           |
| 34HT2652             | 1.2                         | 127                            | 14.2                          | 5.2                           | 2.75                             | 13.7                              | 8.0                               | 30                                     | 3300                               | 6                             | 4.0                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

34HT系列  
三相混合式步进电机  
3-PHASE STEPPER MOTOR



M 机身说明  
Motor Length

| 型号       | 机身长   |
|----------|-------|
| 34HT6XXX | 67mm  |
| 34HT7XXX | 73mm  |
| 34HT9XXX | 97mm  |
| 34HT1XXX | 105mm |
| 34HT2XXX | 127mm |



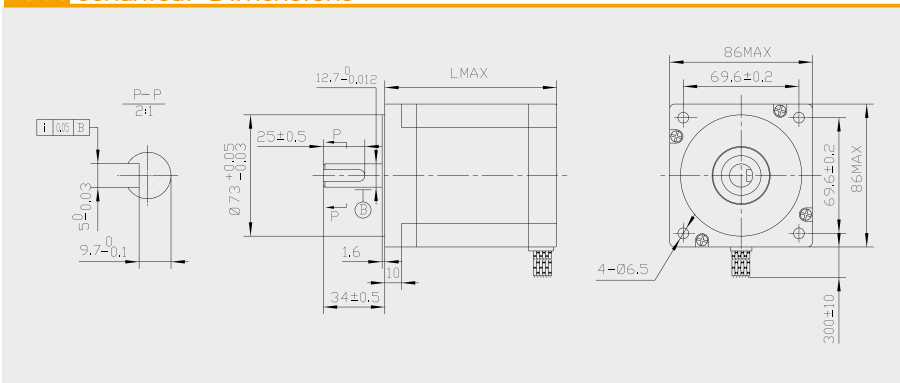
34HF 系列  
五相混合步进电机  
5-PHASE STEPPER MOTOR



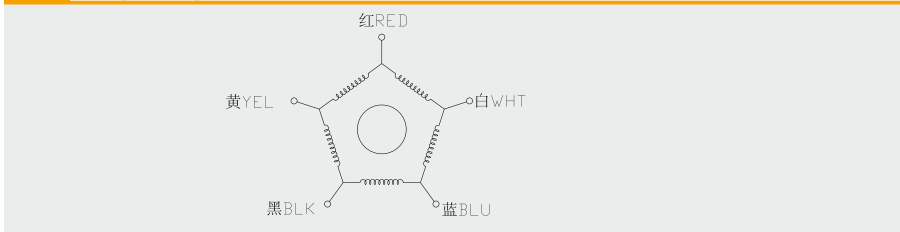
M 机身说明  
Motor Length

| 型号       | 机身长   |
|----------|-------|
| 34HF6XXX | 67mm  |
| 34HF9XXX | 97mm  |
| 34HF2XXX | 127mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram

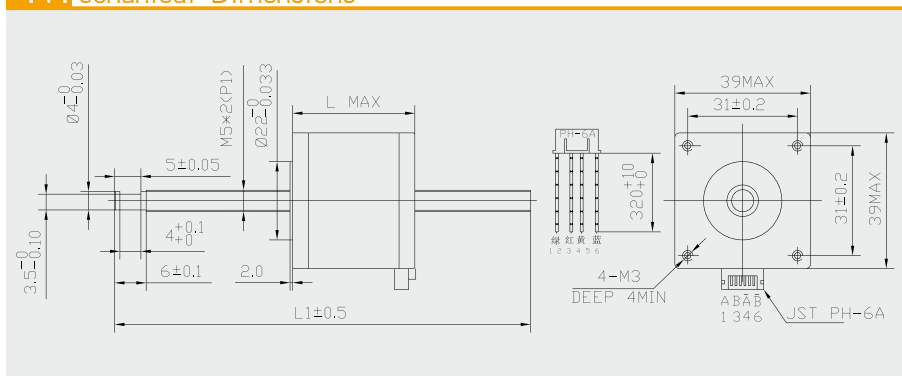


E 技术数据  
Electrical Specifications

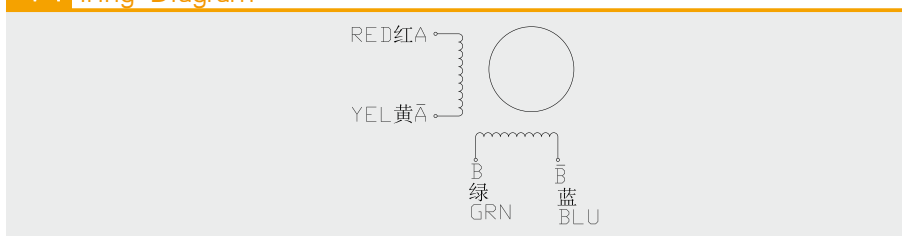
| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 34HF6514             | 0.72                        | 67                             | 2.1                           | 1.4                           | 1.5                              | 5.67                              | 2.0                               | 5.0                                    | 1400                               | 5                             | 1.7                           |
| 34HF6528             | 0.72                        | 67                             | 1.3                           | 2.8                           | 0.47                             | 2.2                               | 2.0                               | 5.0                                    | 1400                               | 5                             | 1.7                           |
| 34HF9514             | 0.72                        | 97                             | 3.22                          | 1.4                           | 2.3                              | 11.8                              | 4.0                               | 10                                     | 2700                               | 5                             | 2.8                           |
| 34HF9528             | 0.72                        | 97                             | 1.46                          | 2.8                           | 0.52                             | 2.8                               | 4.0                               | 10                                     | 2700                               | 5                             | 2.8                           |
| 34HF2514             | 0.72                        | 127                            | 4.37                          | 1.4                           | 3.12                             | 18.2                              | 6.0                               | 15                                     | 4000                               | 5                             | 3.8                           |
| 34HF2528             | 0.72                        | 127                            | 2.1                           | 2.8                           | 0.72                             | 4.3                               | 6.0                               | 15                                     | 4000                               | 5                             | 3.8                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram



E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步长<br>Step<br>Distance<br>mm/step | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 16HSL3404            | 0.01                              | 34                             | 12                            | 0.4                           | 30                               | 32                                | 0.21                              | 1.2                                    | 20                                 | 4                             | 0.18                          |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

16HSL 系列 (39BYGL 系列)  
直线混合式步进电机  
HYBRID LINEAR STEPPER MOTOR



M 机身说明  
Motor Length

| 型号        | 机身长  |
|-----------|------|
| 16HSL3XXX | 34mm |



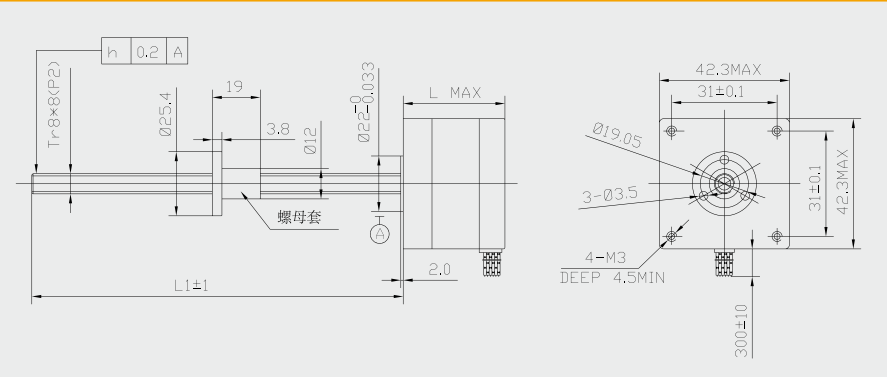
17HSL系列 (42BYGHL系列)  
直线混合式步进电机  
HYBRID LINEAR STEPPER MOTOR



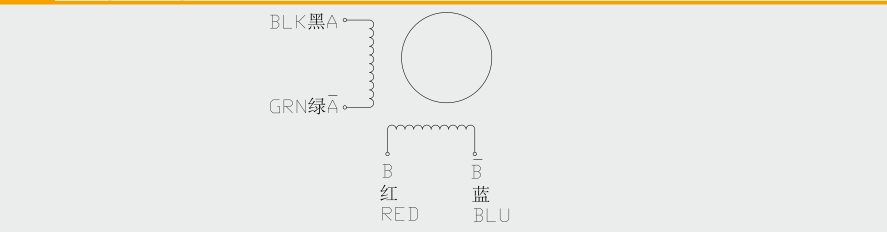
M 机身说明  
Motor Length

| 型号        | 机身长  |
|-----------|------|
| 17HSL3XXX | 34mm |
| 17HSL4XXX | 40mm |
| 17HSL5XXX | 48mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram



E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步长<br>Step<br>Distance<br>mm/step | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm <sup>2</sup> ) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|-------------------------------------------------|-------------------------------|-------------------------------|
| 17HSL3404            | 0.04                              | 34                             | 12                            | 0.4                           | 30                               | 35                                | 0.24                              | 1.6                                    | 35                                              | 4                             | 0.25                          |
| 17HSL4604            | 0.04                              | 40                             | 12                            | 0.4                           | 26                               | 23                                | 0.3                               | 2.2                                    | 54                                              | 6                             | 0.3                           |
| 17HSL4412            | 0.04                              | 40                             | 6.4                           | 1.2                           | 5.4                              | 11                                | 0.45                              | 2.2                                    | 54                                              | 4                             | 0.3                           |
| 17HSL4417            | 0.04                              | 40                             | 2.55                          | 1.7                           | 1.5                              | 2.8                               | 0.4                               | 2.2                                    | 54                                              | 4                             | 0.3                           |
| 17HSL5415            | 0.04                              | 48                             | 2.7                           | 1.5                           | 1.8                              | 3.2                               | 0.46                              | 2.8                                    | 68                                              | 4                             | 0.4                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

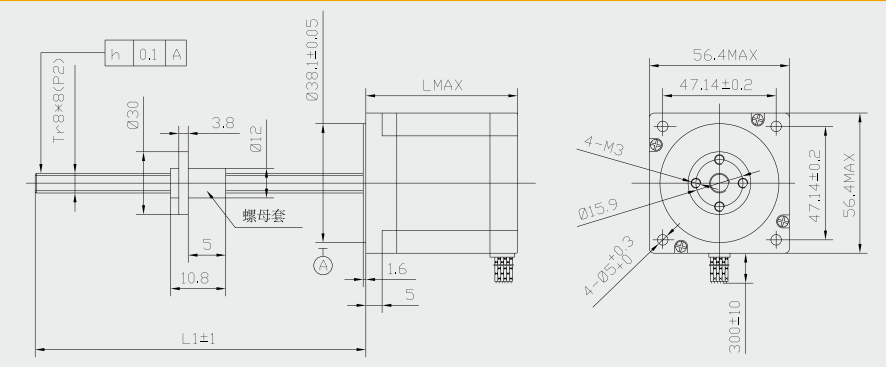
23HSL系列 (57BYGHL系列)  
直线混合式步进电机  
HYBRID LINEAR STEPPER MOTOR



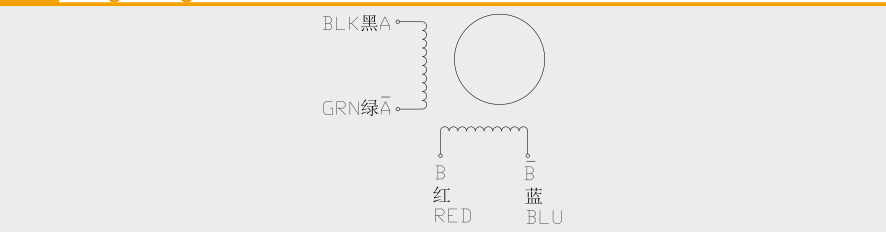
M 机身说明  
Motor Length

| 型号        | 机身长  |
|-----------|------|
| 23HSL4XXX | 41mm |
| 23HSL5XXX | 51mm |
| 23HSL6XXX | 56mm |
| 23HSL8XXX | 76mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram



E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步长<br>Step<br>Distance<br>mm/step | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm <sup>2</sup> ) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|----------------------|-----------------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|-------------------------------------------------|-------------------------------|-------------------------------|
| 23HSL4610            | 0.04                              | 41                             | 5.2                           | 1.0                           | 5.2                              | 5.5                               | 0.4                               | 2.4                                    | 150                                             | 6                             | 0.47                          |
| 23HSL5417            | 0.04                              | 51                             | 3.3                           | 1.7                           | 1.95                             | 6.0                               | 1                                 | 3.6                                    | 275                                             | 4                             | 0.65                          |
| 23HSL6620            | 0.04                              | 56                             | 3.6                           | 2                             | 1.8                              | 2.5                               | 0.9                               | 4                                      | 300                                             | 6                             | 0.7                           |
| 23HSL8430            | 0.04                              | 76                             | 3                             | 3                             | 1                                | 3.5                               | 1.9                               | 6                                      | 480                                             | 4                             | 1                             |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.



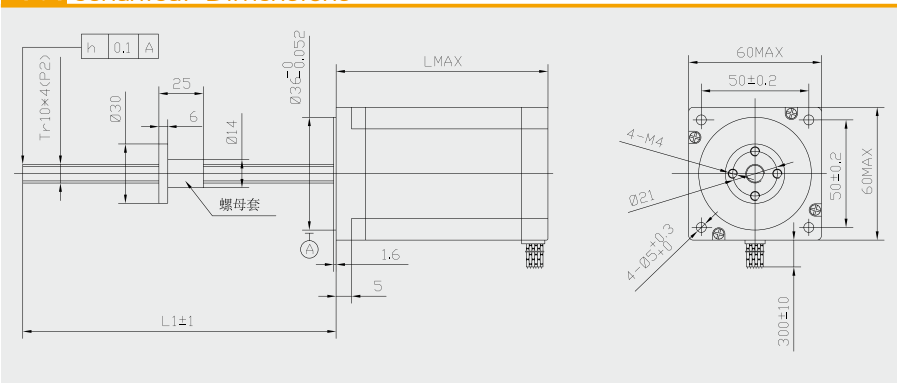
24HSL系列 (60BYGHL系列)  
直线混合式步进电机  
HYBRID LINEAR STEPPER MOTOR



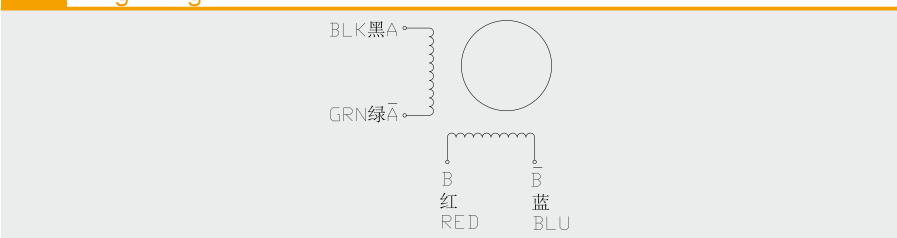
机身说明  
Motor Length

| 型号        | 机身长  |
|-----------|------|
| 24HSL9XXX | 90mm |

外型图  
Mechanical Dimensions



接线图  
Wiring Diagram

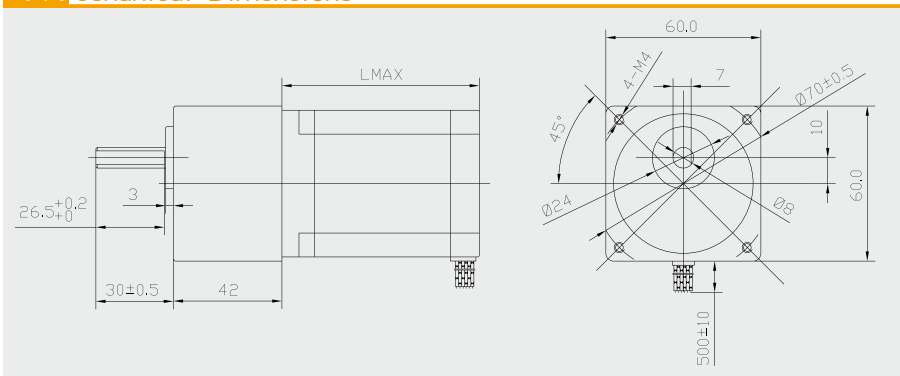


技术数据  
Electrical Specifications

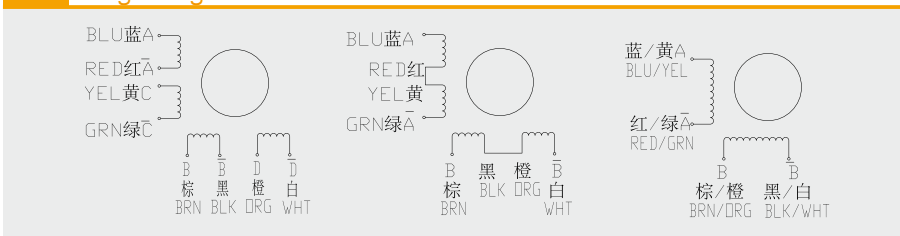
| 型号<br>Series<br>Model | 步长<br>Step<br>Distance<br>mm/step | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 重量<br>Motor<br>Weight<br>(Kg) |
|-----------------------|-----------------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|-------------------------------|
| 24HSL9440             | 0.04                              | 90                             | 3.2                           | 4.0                           | 0.78                             | 3.9                               | 2.8                               | 12                                     | 780                                | 4                             | 1.4                           |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

外型图  
Mechanical Dimensions



接线图  
Wiring Diagram



技术数据  
Electrical Specifications

| 型号<br>Series<br>Model | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 减速比<br>Reduction<br>Ratio<br>(NO.) |
|-----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------|------------------------------------|
| 23HS4610AG30          | 1.8                         | 41                             | 5.2                           | 1.0                           | 5.2                              | 5.5                               | 0.4                               | 150                                | 6                             | 1:30                               |
| 23HS5620AG10          | 1.8                         | 51                             | 3.3                           | 2                             | 1.65                             | 2.2                               | 0.72                              | 275                                | 6                             | 1:10                               |
| 23HS5412AG20          | 1.8                         | 51                             | 9.6                           | 1.2                           | 8.0                              | 25.5                              | 1.0                               | 275                                | 4                             | 1:20                               |
| 23HS6606AG15          | 1.8                         | 56                             | 12                            | 0.6                           | 20                               | 29                                | 0.85                              | 300                                | 6                             | 1:15                               |
| 23HS6410AG5           | 1.8                         | 56                             | 3.2                           | 1.0                           | 3.2                              | 12                                | 0.9                               | 300                                | 4                             | 1:5                                |
| 23HS8428AG20          | 1.8                         | 76                             | 3.2                           | 2.8                           | 1.13                             | 5.0                               | 1.4                               | 480                                | 4                             | 1:20                               |
| 23HS8430AG15          | 1.8                         | 76                             | 1.5                           | 3.0                           | 0.5                              | 1.8                               | 1.4                               | 480                                | 4                             | 1:15                               |

| Reduction ratio<br>减速比 | 1:3 | 1:5 | 1:10 | 1:15 | 1:20 | 1:30 | 1:50 |
|------------------------|-----|-----|------|------|------|------|------|
|------------------------|-----|-----|------|------|------|------|------|

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

23HS系列  
偏心减速电机  
ECCENTRIC GEARBOX STEPPER MOTOR



机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 23HS4XXX | 41mm |
| 23HS5XXX | 51mm |
| 23HS6XXX | 56mm |
| 23HS8XXX | 76mm |



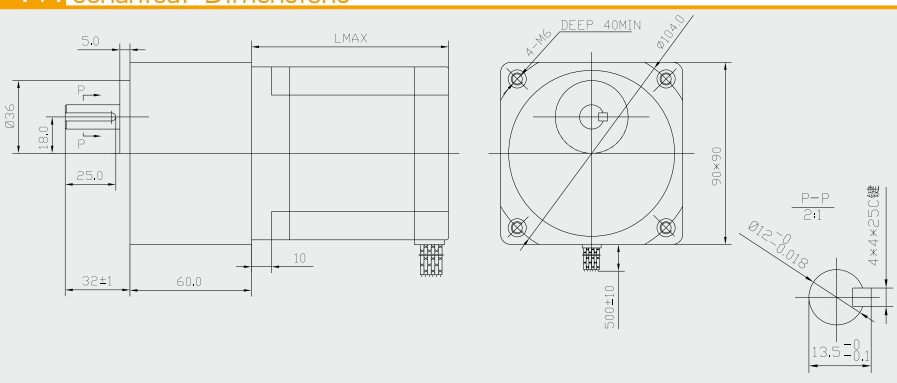
34HS系列  
偏心减速电机  
ECCENTRIC GEARBOX STEPPER MOTOR



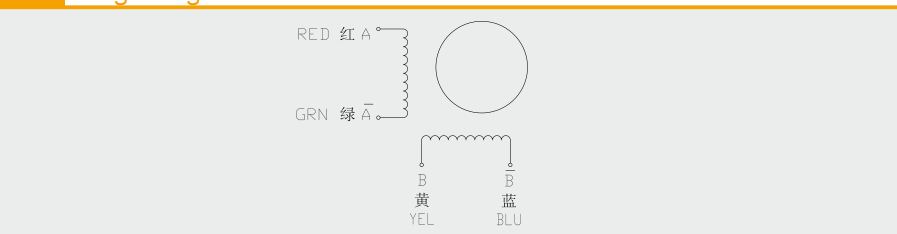
机身说明  
Motor Length

| 型号       | 机身长   |
|----------|-------|
| 34HS6XXX | 66mm  |
| 34HS7XXX | 80mm  |
| 34HS9XXX | 98mm  |
| 34HS1XXX | 116mm |

外型图  
Mechanical Dimensions



接线图  
Wiring Diagram

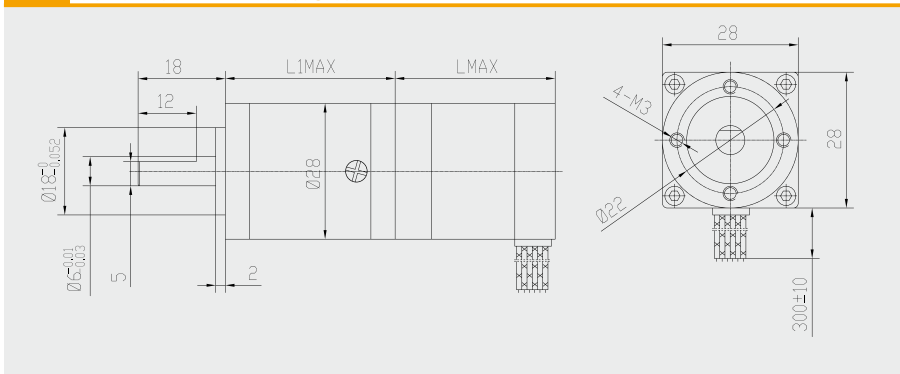


技术数据  
Electrical Specifications

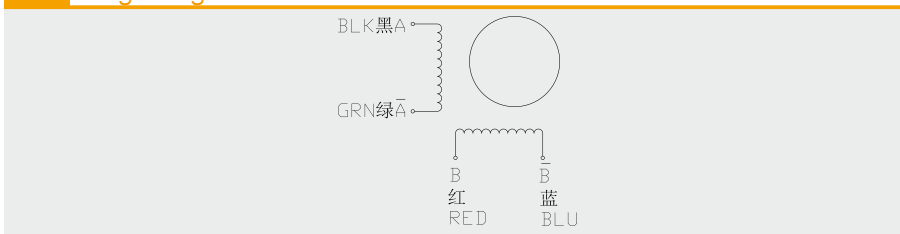
| 型号<br>Series<br>Mode   | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 减速比<br>Reduction<br>Ratio<br>(NO.) |
|------------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------|------------------------------------|
| 34HS6828AG3            | 1.8                         | 66                             | 3.92                          | 2.8                           | 1.4                              | 3.9                               | 3.4                               | 1000                               | 8                             | 1:3                                |
| 34HS7840AG5            | 1.8                         | 80                             | 2.8                           | 4.0                           | 0.7                              | 3.0                               | 3.0                               | 1400                               | 8                             | 1:5                                |
| 34HS7440AG5            | 1.8                         | 80                             | 1.6                           | 4.0                           | 0.4                              | 2.13                              | 3.4                               | 1400                               | 4                             | 1:5                                |
| 34HS9840AG10           | 1.8                         | 98                             | 3.2                           | 4                             | 0.8                              | 3.5                               | 5.5                               | 1700                               | 8                             | 1:10                               |
| 34HS9456AG5            | 1.8                         | 98                             | 1.96                          | 5.6                           | 0.35                             | 4.1                               | 6.8                               | 2700                               | 4                             | 1:5                                |
| 34HS1456AG3            | 1.8                         | 116                            | 3.0                           | 5.6                           | 0.55                             | 5.5                               | 8.4                               | 2900                               | 4                             | 1:3                                |
| 34HS1440AG20           | 1.8                         | 116                            | 2.4                           | 4.0                           | 0.6                              | 5.0                               | 6.0                               | 2900                               | 4                             | 1:20                               |
| Reduction ratio<br>减速比 |                             | 1:3                            | 1:5                           | 1:10                          | 1:15                             | 1:20                              | 1:30                              | 1:50                               |                               |                                    |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

外型图  
Mechanical Dimensions



接线图  
Wiring Diagram



技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode          | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.cm) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 减速比<br>Reduction<br>Ratio<br>(NO.) |
|-------------------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------|------------------------------------|
| 11HS3406AG27                  | 1.8                         | 33                             | 3.8                           | 0.67                          | 5.6                              | 3.4                               | 6.0                                | 9                                  | 4                             | 1:27                               |
| 11HS4406AG5.2                 | 1.8                         | 41                             | 4.2                           | 0.6                           | 7.0                              | 6.0                               | 6.0                                | 11                                 | 4                             | 1:5.2                              |
| 11HS5406AG13.7                | 1.8                         | 50                             | 6.2                           | 0.67                          | 9.2                              | 7.2                               | 12                                 | 18                                 | 4                             | 1:13.7                             |
| Reduction ratio<br>减速比        |                             | 3:7                            | 5:2                           | 13:7                          | 19                               | 27                                | 51                                 | 71                                 | 100                           | 139                                |
| Gear box Length<br>L1(mm) 机身长 |                             | 27.2                           | 27.2                          | 35                            | 35                               | 35                                | 42.7                               | 42.7                               | 42.7                          | 42.7                               |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

11HS系列  
行星减速电机  
PLANETARY GEARBOX STEPPER MOTOR



机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 11HS3XXX | 33mm |
| 11HS4XXX | 41mm |
| 11HS5XXX | 50mm |



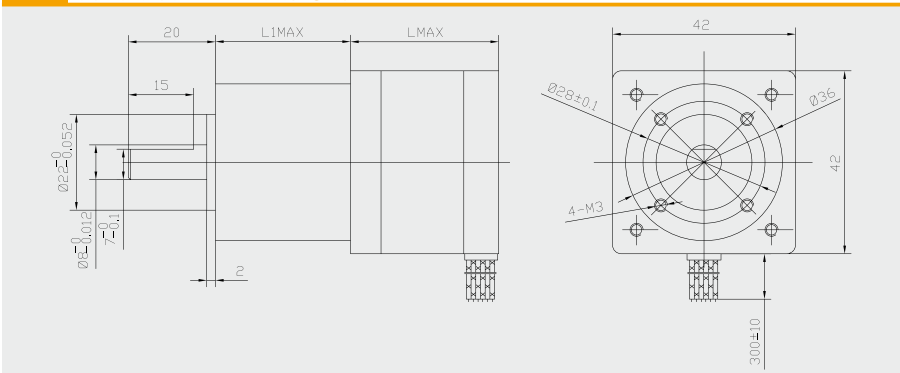
17HS系列  
行星减速电机  
PLANETARY GEARBOX STEPPER MOTOR



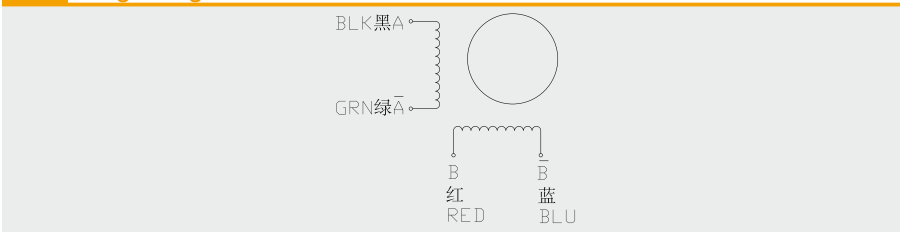
M 机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 17HS3XXX | 33mm |
| 17HS4XXX | 40mm |
| 17HS5XXX | 48mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram



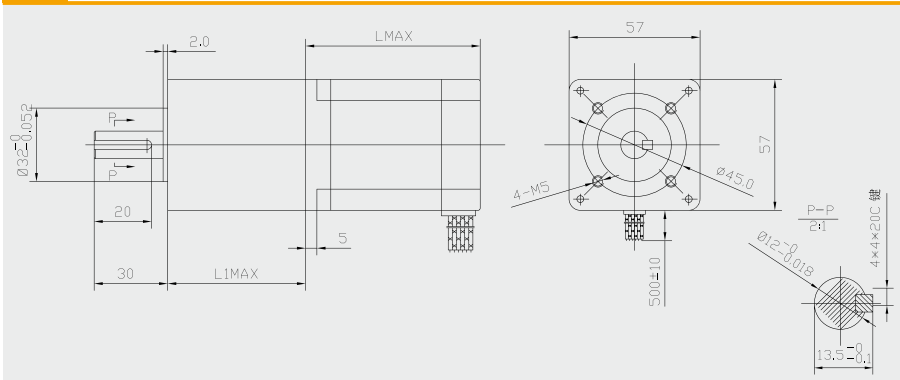
E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 减速比<br>Reduction<br>Ratio<br>(NO.) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------|------------------------------------|
| 17HS3404A5.2         | 1.8                         | 33                             | 12                            | 0.4                           | 37                               | 2.2                               | 0.26                              | 34                                 | 4                             | 1:5.2                              |
| 17HS4417AG27         | 1.8                         | 40                             | 2.55                          | 1.7                           | 2.8                              | 2.5                               | 0.4                               | 54                                 | 4                             | 1:27                               |
| 17HS5604AG51         | 1.8                         | 48                             | 12                            | 0.4                           | 28                               | 3.8                               | 0.38                              | 68                                 | 6                             | 1:51                               |

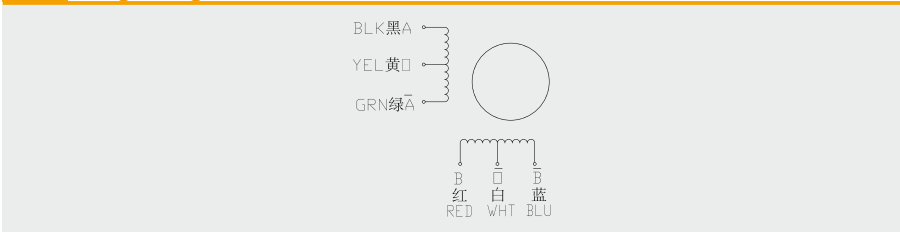
| Reduction ratio<br>减速比        | 3.7  | 5.2  | 13.7 | 19 | 27 | 51   | 71   | 100  | 139  |
|-------------------------------|------|------|------|----|----|------|------|------|------|
| Gear box Length<br>L1(mm) 机身长 | 27.2 | 27.2 | 35   | 35 | 35 | 42.7 | 42.7 | 42.7 | 42.7 |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram



23HS系列  
行星减速电机  
PLANETARY GEARBOX STEPPER MOTOR



M 机身说明  
Motor Length

| 型号       | 机身长  |
|----------|------|
| 23HS4XXX | 41mm |
| 23HS5XXX | 51mm |
| 23HS6XXX | 56mm |
| 23HS8XXX | 76mm |

E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) | 减速比<br>Reduction<br>Ratio<br>(NO.) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------|------------------------------------|
| 23HS4610AG16         | 1.8                         | 41                             | 5.2                           | 1                             | 5.2                              | 5.5                               | 0.4                               | 150                                | 6                             | 1:16                               |
| 23HS5620AG16         | 1.8                         | 51                             | 3.3                           | 2                             | 1.65                             | 2.2                               | 0.72                              | 275                                | 6                             | 1:16                               |
| 23HS6620AG16         | 1.8                         | 56                             | 12                            | 2                             | 1.8                              | 2.5                               | 0.9                               | 300                                | 6                             | 1:16                               |
| 23HS8430AG16         | 1.8                         | 76                             | 3                             | 3                             | 1                                | 6.4                               | 1.9                               | 480                                | 4                             | 1:16                               |

| Reduction ratio<br>减速比        | 4    | 8    | 16   | 25   | 36   | 50   | 64   | 72   | 81   | 100  | 128  | 144  |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Gear box Length<br>L1(mm) 机身长 | 49.5 | 49.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.



## 17HS系列 刹车电机

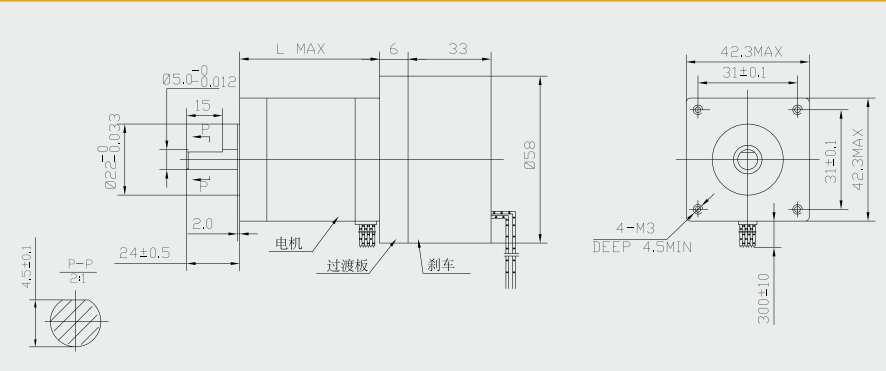
BRAKE HYBRID STEPPER MOTOR



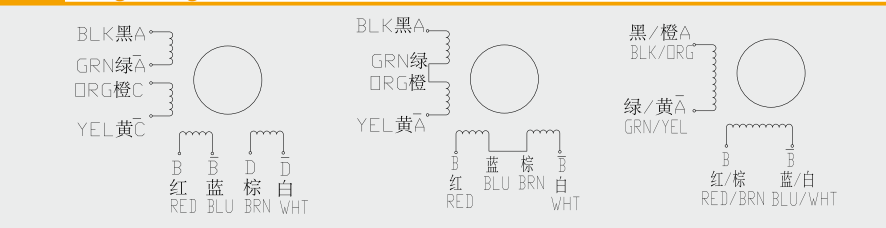
### M 机身说明 Motor Length

| 型号       | 机身长  |
|----------|------|
| 17HS4XXX | 40mm |
| 17HS5XXX | 48mm |

### M 外型图 Mechanical Dimensions



### W 接线图 Wiring Diagram



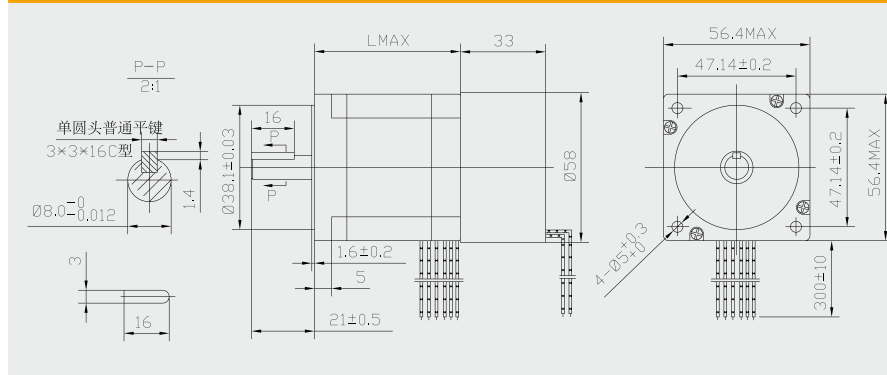
### E 技术数据 Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|
| 17HS4417-S1          | 1.8                         | 40                             | 2.55                          | 1.7                           | 1.5                              | 2.8                               | 0.54                              | 2.2                                    | 54                                 | 4                             |
| 17HS5413-S1          | 1.8                         | 48                             | 4.16                          | 1.3                           | 3.2                              | 5.5                               | 0.52                              | 2.8                                    | 68                                 | 4                             |
| 17HS5425-S1          | 1.8                         | 48                             | 3.1                           | 2.5                           | 1.25                             | 1.8                               | 0.58                              | 2.8                                    | 68                                 | 4                             |

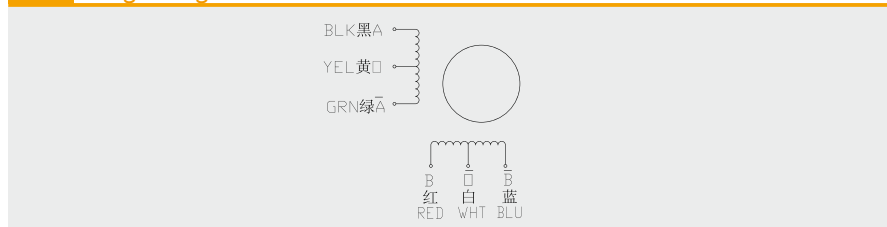
| 刹车型号<br>Model      | S1  | S1.5 | S2  | S4  | S6   | S8  | S16 |
|--------------------|-----|------|-----|-----|------|-----|-----|
| 力矩<br>Torque (N-m) | 1.0 | 1.5  | 2.0 | 4.0 | 6.0  | 8.0 | 16  |
| 电压<br>Voltage (V)  | 12V | 24V  | 48V | 99V | 170V |     |     |
| 高度<br>Length (mm)  | 33  | 33   | 33  | 35  | 37   | 37  | 75  |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

### M 外型图 Mechanical Dimensions



### W 接线图 Wiring Diagram



### E 技术数据 Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|
| 23HS4415-S1          | 1.8                         | 41                             | 2.7                           | 1.5                           | 1.8                              | 5.3                               | 0.58                              | 2.1                                    | 120                                | 4                             |
| 23HS5610-S1          | 1.8                         | 51                             | 5.0                           | 1.0                           | 5.0                              | 9.0                               | 0.7                               | 3.6                                    | 275                                | 6                             |
| 23HS5420-S1          | 1.8                         | 51                             | 2.6                           | 2.0                           | 1.3                              | 5.1                               | 1.0                               | 3.6                                    | 275                                | 4                             |
| 23HS6420-S1          | 1.8                         | 56                             | 3.0                           | 2.0                           | 1.5                              | 5.5                               | 1.0                               | 4.0                                    | 300                                | 4                             |
| 23HS6620-S1          | 1.8                         | 56                             | 3.6                           | 2                             | 1.4                              | 2.5                               | 0.9                               | 4.0                                    | 300                                | 6                             |
| 23HS6430-S1.5        | 1.8                         | 56                             | 2.4                           | 3                             | 0.7                              | 2.7                               | 1.2                               | 4.0                                    | 300                                | 4                             |
| 23HS7630-S1.5        | 1.8                         | 64                             | 2.4                           | 3.0                           | 0.8                              | 1.4                               | 1.2                               | 5.0                                    | 380                                | 6                             |
| 23HS8421-S2          | 1.8                         | 76                             | 4.2                           | 2.1                           | 2.0                              | 8.5                               | 1.8                               | 6.8                                    | 480                                | 4                             |
| 23HS8828-S2          | 1.8                         | 76                             | 2.8                           | 2.8                           | 1.0                              | 2.1                               | 1.45                              | 6.8                                    | 480                                | 8                             |
| 23HS8630-S2          | 1.8                         | 76                             | 2.7                           | 3.0                           | 0.9                              | 1.8                               | 1.45                              | 6.8                                    | 480                                | 6                             |

| 刹车型号<br>Model      | S1  | S1.5 | S2  | S4  | S6   | S8  | S16 |
|--------------------|-----|------|-----|-----|------|-----|-----|
| 力矩<br>Torque (N-m) | 1.0 | 1.5  | 2.0 | 4.0 | 6.0  | 8.0 | 16  |
| 电压<br>Voltage (V)  | 12V | 24V  | 48V | 99V | 170V |     |     |
| 高度<br>Length (mm)  | 33  | 33   | 33  | 35  | 37   | 37  | 75  |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

## 23HS系列 刹车电机

BRAKE HYBRID STEPPER MOTOR

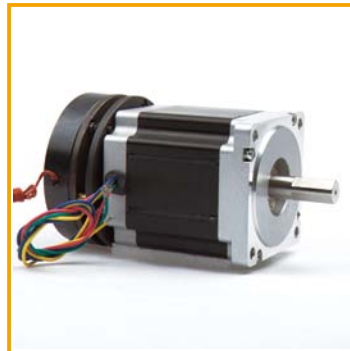


### M 机身说明 Motor Length

| 型号       | 机身长  |
|----------|------|
| 23HS4XXX | 41mm |
| 23HS5XXX | 51mm |
| 23HS6XXX | 56mm |
| 23HS7XXX | 64mm |
| 23HS8XXX | 76mm |



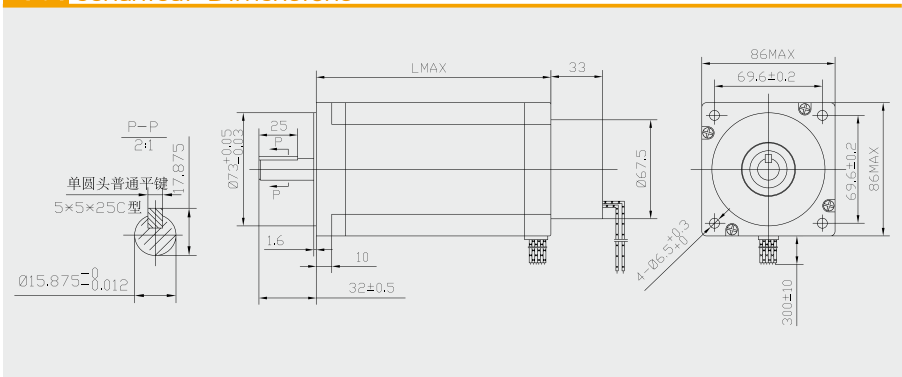
34HS系列  
刹车电机  
BRAKE HYBRID STEPPER MOTOR



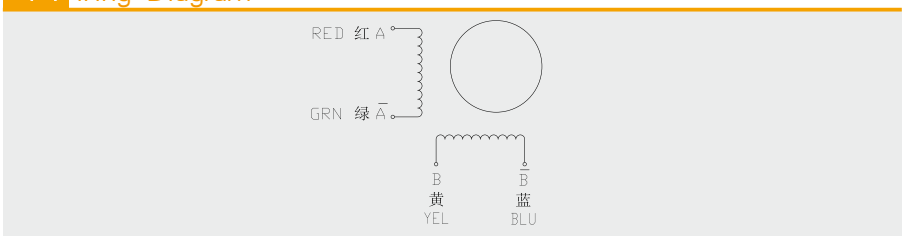
M 机身说明  
Motor Length

| 型号       | 机身长   |
|----------|-------|
| 34HS6XXX | 68mm  |
| 34HS7XXX | 80mm  |
| 34HS9XXX | 98mm  |
| 34HS1XXX | 116mm |

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram



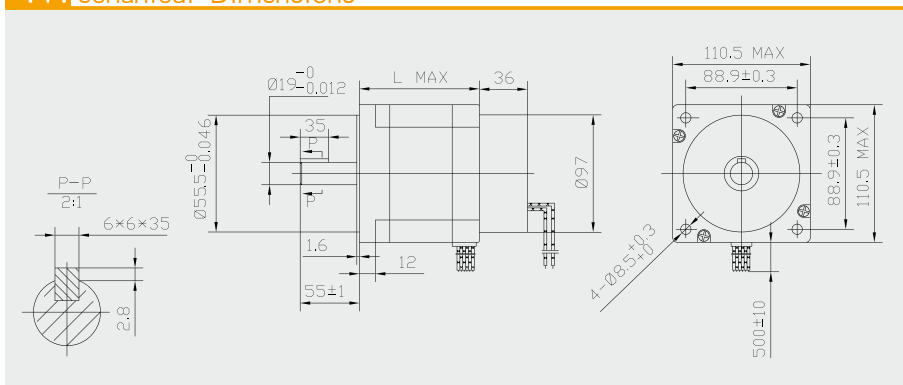
E 技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|
| 34HS6828-S4          | 1.8                         | 68                             | 3.9                           | 2.8                           | 1.4                              | 3.9                               | 3.5                               | 5.5                                    | 850                                | 8                             |
| 34HS7440-S4          | 1.8                         | 80                             | 1.6                           | 4.0                           | 0.41                             | 2.5                               | 4.0                               | 6.5                                    | 1400                               | 4                             |
| 34HS7840-S4          | 1.8                         | 80                             | 2.8                           | 4.0                           | 0.7                              | 3.0                               | 4.0                               | 6.5                                    | 1400                               | 8                             |
| 34HS9820-S8          | 1.8                         | 98                             | 6.4                           | 2.0                           | 3.2                              | 15                                | 7.0                               | 9.5                                    | 1700                               | 8                             |
| 34HS9840-S8          | 1.8                         | 98                             | 3.2                           | 4.0                           | 0.8                              | 3.5                               | 7.0                               | 9.5                                    | 1700                               | 8                             |
| 34HS9456-S8          | 1.8                         | 98                             | 2.1                           | 5.6                           | 0.39                             | 3.76                              | 7.5                               | 9.5                                    | 1700                               | 4                             |
| 34HS1435-S8          | 1.8                         | 116                            | 1.9                           | 3.5                           | 0.55                             | 6.5                               | 8.4                               | 12.5                                   | 2200                               | 4                             |
| 34HS1456-S8          | 1.8                         | 116                            | 2.8                           | 5.6                           | 0.5                              | 5.5                               | 8.4                               | 12.5                                   | 2200                               | 4                             |

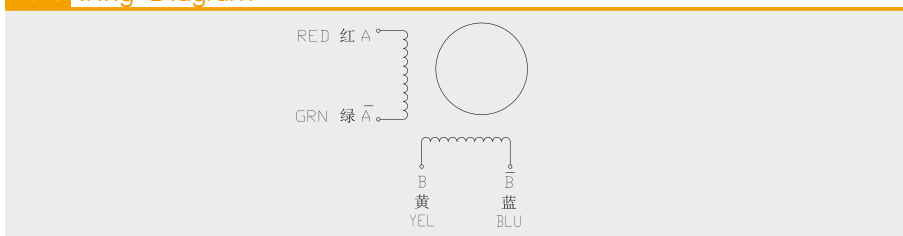
| 刹车型号 | Model        | S1  | S1.5 | S2  | S4  | S6   | S8  | S16 |
|------|--------------|-----|------|-----|-----|------|-----|-----|
| 力矩   | Torque (N-m) | 1.0 | 1.5  | 2.0 | 4.0 | 6.0  | 8.0 | 16  |
| 电压   | Voltage (V)  | 12V | 24V  | 48V | 99V | 170V |     |     |
| 高度   | Length (mm)  | 33  | 33   | 33  | 35  | 37   | 37  | 75  |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

M 外型图  
Mechanical Dimensions



W 接线图  
Wiring Diagram



技术数据  
Electrical Specifications

| 型号<br>Series<br>Mode | 步距角<br>Step<br>Angle<br>(°) | 机身长<br>Motor<br>Length<br>(mm) | 电压<br>Rated<br>Voltage<br>(V) | 电流<br>Rated<br>Current<br>(A) | 电阻<br>Phase<br>Resistance<br>(Ω) | 电感<br>Phase<br>Inductance<br>(mH) | 静力矩<br>Holding<br>Torque<br>(N.m) | 定位力矩<br>Detent<br>Torque<br>(N.cm Max) | 转动惯量<br>Rotor<br>Torque<br>(g.cm²) | 引线数<br>Lead<br>Wires<br>(NO.) |
|----------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|------------------------------------|-------------------------------|
| 42HS9460-S16         | 1.8                         | 100                            | 2.75                          | 5.5                           | 0.5                              | 6.0                               | 12.5                              | 3                                      | 5500                               | 4                             |

| 刹车型号 | Model        | S1  | S1.5 | S2  | S4  | S6   | S8  | S16 |
|------|--------------|-----|------|-----|-----|------|-----|-----|
| 力矩   | Torque (N-m) | 1.0 | 1.5  | 2.0 | 4.0 | 6.0  | 8.0 | 16  |
| 电压   | Voltage (V)  | 12V | 24V  | 48V | 99V | 170V |     |     |
| 高度   | Length (mm)  | 33  | 33   | 33  | 35  | 37   | 37  | 75  |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

42HS系列  
刹车电机  
BRAKE HYBRID STEPPER MOTOR



M 机身说明  
Motor Length

| 型号       | 机身长   |
|----------|-------|
| 42HS9XXX | 100mm |



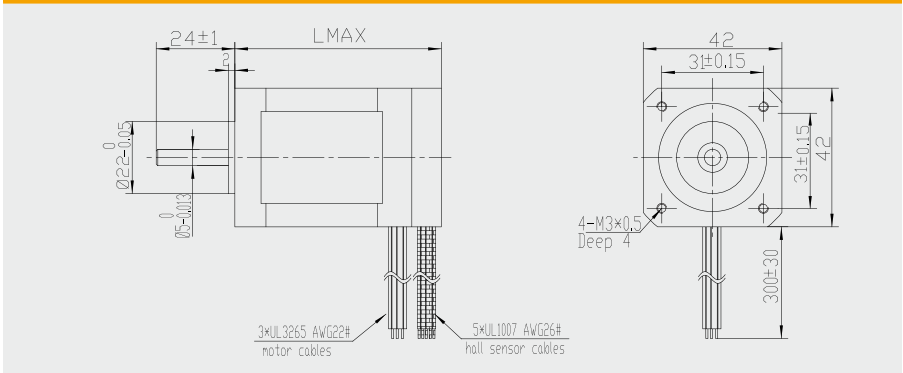
42BLF系列  
直流无刷电机  
BRUSHLESS DC MOTOR



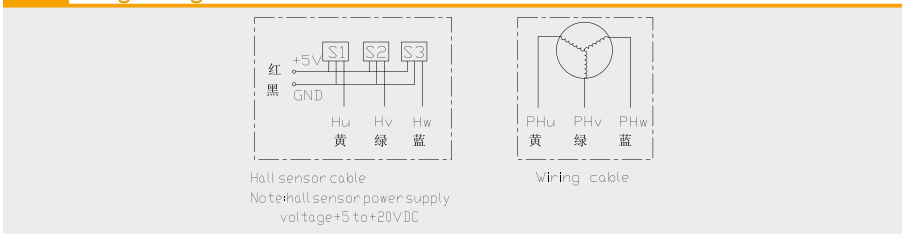
机身说明  
Motor Length

| 型号      | 机身长  |
|---------|------|
| 42BLF01 | 47mm |
| 42BLF02 | 63mm |
| 42BLF03 | 79mm |

外型图  
Mechanical Dimensions



接线图  
Wiring Diagram

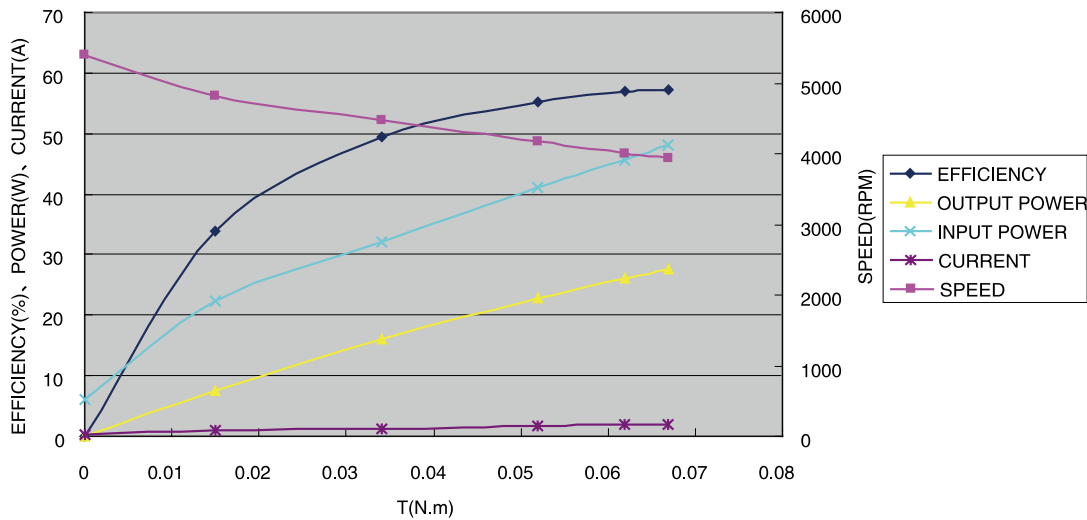


技术数据  
Electrical Specifications

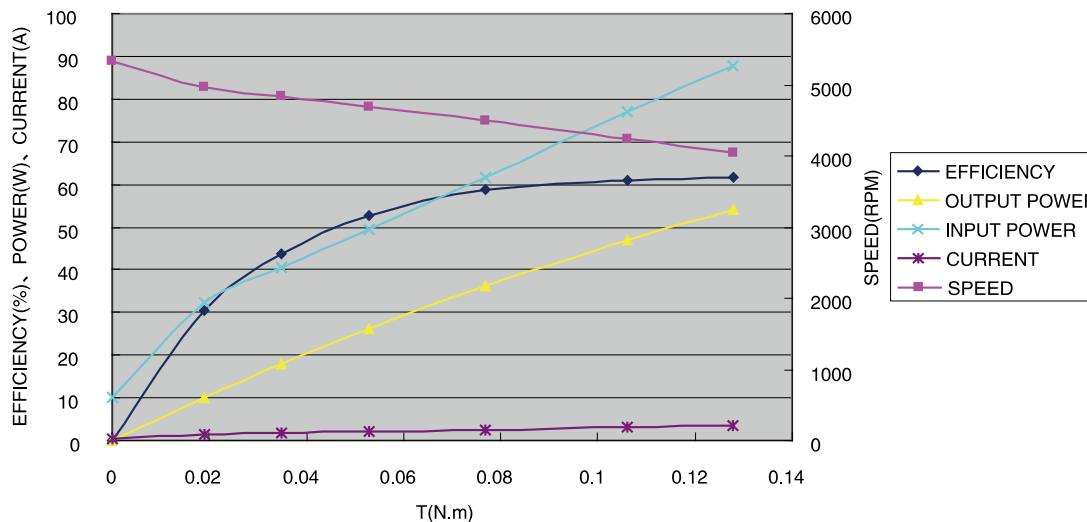
| 型号    | Model                              | 42BLF01 | 42BLF02 | 42BLF03 |
|-------|------------------------------------|---------|---------|---------|
| 极数    | Number of Poles                    | 8       | 8       | 8       |
| 相数    | Number of Phases                   | 3       | 3       | 3       |
| 额定电压  | Nominal Voltage (VDC)              | 24      | 24      | 24      |
| 额定转数  | Rated speed (RPM)                  | 4000    | 4000    | 4000    |
| 额定力矩  | Continuous Torque (N-m)            | 0.063   | 0.125   | 0.188   |
| 额定电流  | Rated Current (Amps)               | 1.9     | 3.4     | 5.7     |
| 输出功率  | Output Power (Watts)               | 26      | 52      | 78      |
| 峰值力矩  | Peak Torque1 (N-m)                 | 0.18    | 0.38    | 0.75    |
| 峰值电流  | Peak Current (Amps)                | 5.7     | 10.2    | 18      |
| 力矩常数  | Torque constant (N-m/Amps)         | 0.035   | 0.036   | 0.036   |
| 反电势常数 | Back EMF (V/kRPM)                  | 3.7     | 3.8     | 3.8     |
| 转动惯量  | Rotor inertia (g·cm <sup>2</sup> ) | 24      | 48      | 72      |
| 机身长   | Body Length (L) (mm)               | 47      | 63      | 79      |
| 重量    | Mass (kg)                          | 0.29    | 0.38    | 0.58    |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.

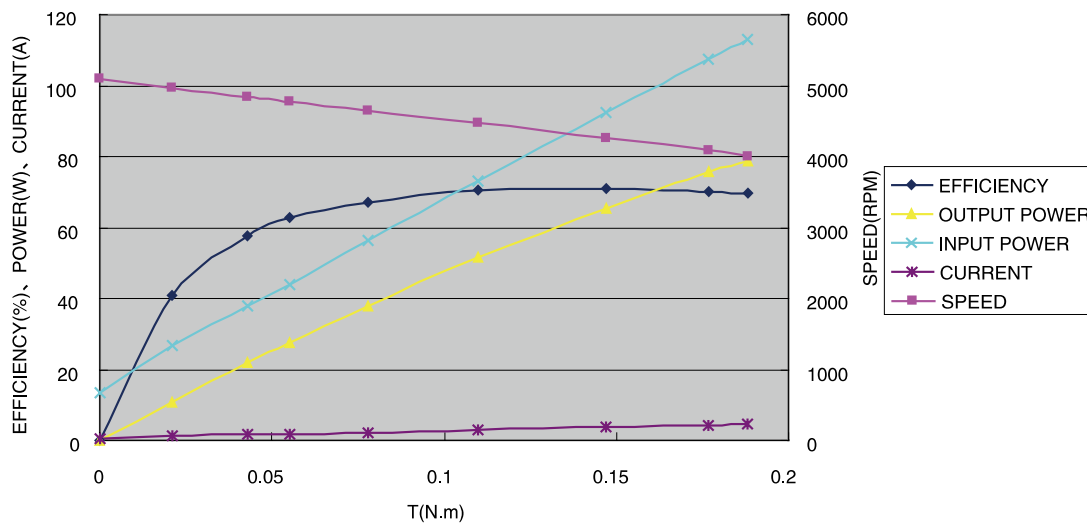
42BLF01 Series 24VDC 26W



42BLF02 Series 24VDC 52W

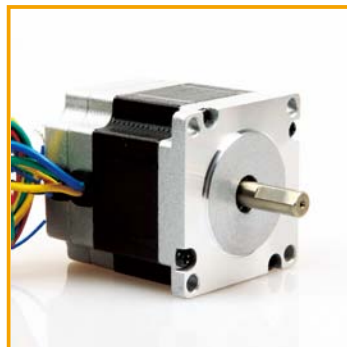


42BLF03 Series 24VDC 78W





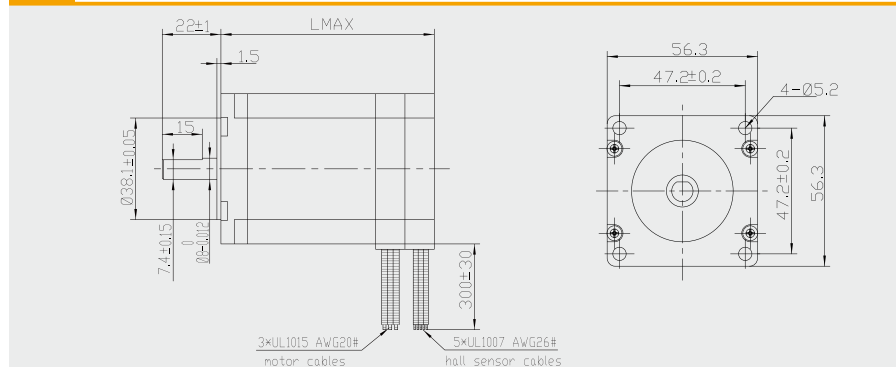
## 57BLF系列 直流无刷电机 BRUSHLESS DC MOTOR



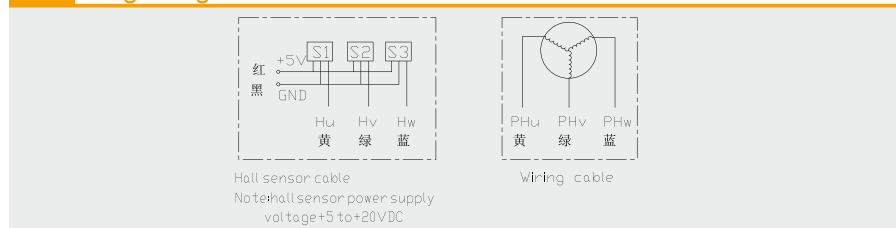
### M 机身说明 Motor Length

| 型号      | 机身长   |
|---------|-------|
| 57BLF01 | 59mm  |
| 57BLF02 | 80mm  |
| 57BLF03 | 101mm |

### M 外型图 Mechanical Dimensions



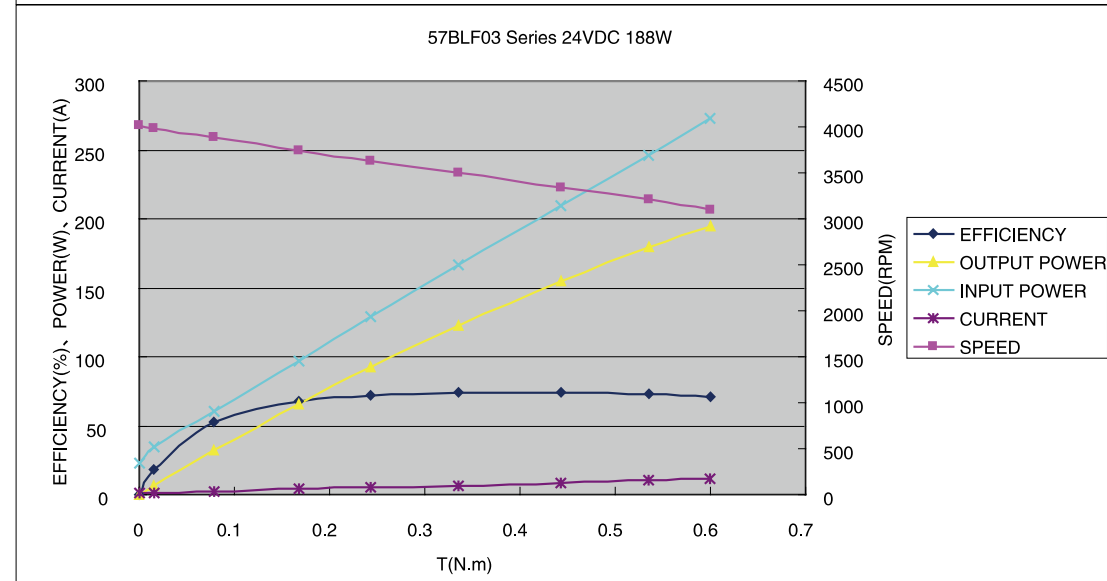
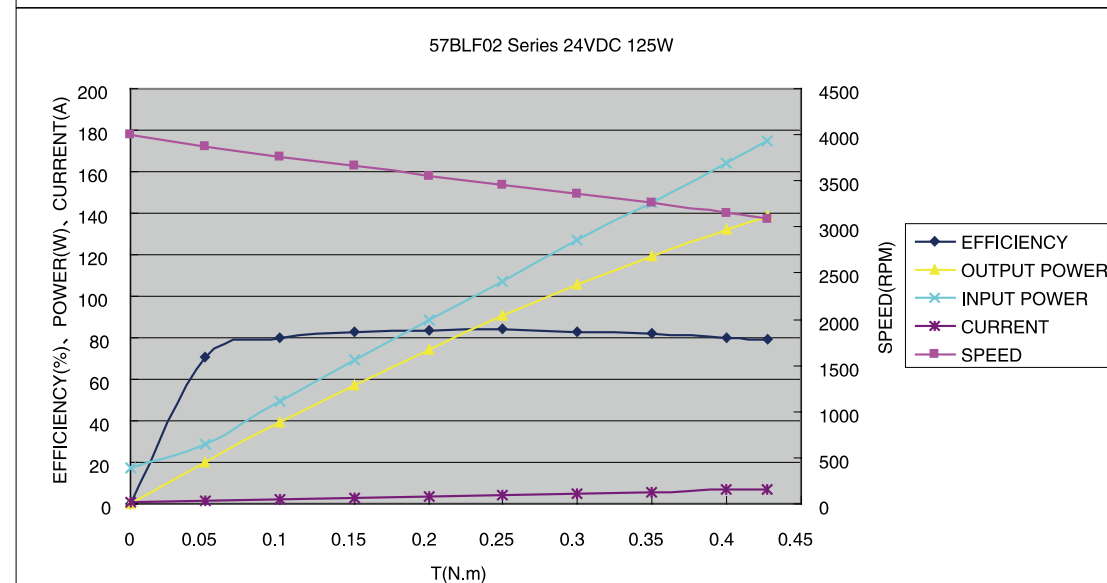
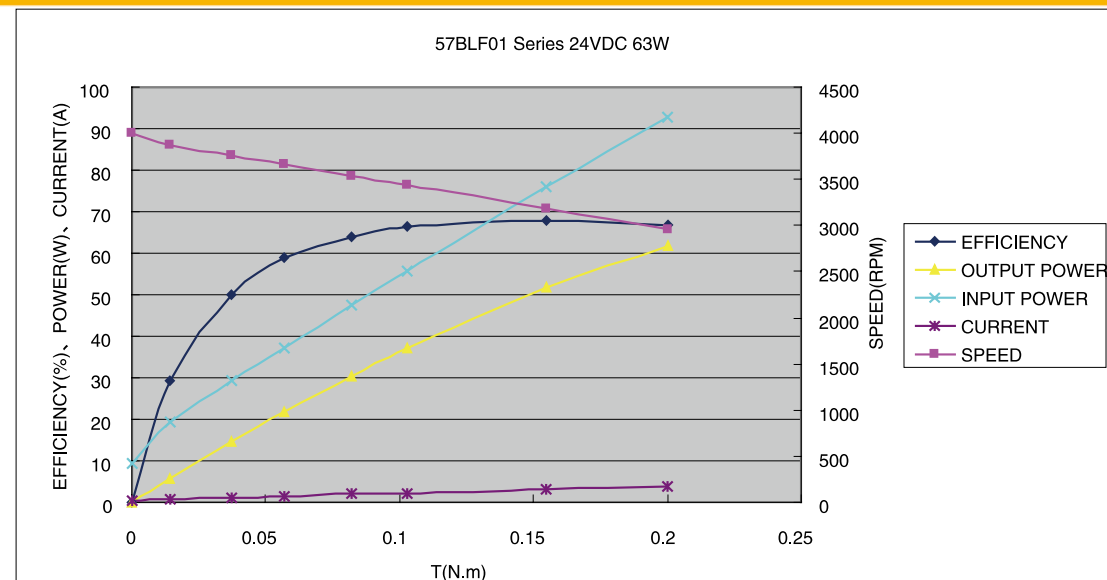
### W 接线图 Wiring Diagram



### E 技术数据 Electrical Specifications

| 型号    | Model                              | 57BLF01 | 57BLF02 | 57BLF03 |
|-------|------------------------------------|---------|---------|---------|
| 极数    | Number of Poles                    | 8       | 8       | 8       |
| 相数    | Number of Phases                   | 3       | 3       | 3       |
| 额定电压  | Nominal Voltage (VDC)              | 24      | 24      | 24      |
| 额定转数  | Rated speed (RPM)                  | 3000    | 3000    | 3000    |
| 额定力矩  | Continuous Torque (N-m)            | 0.2     | 0.4     | 0.6     |
| 额定电流  | Rated Current (Amps)               | 4       | 7.8     | 12      |
| 输出功率  | Output Power (Watts)               | 63      | 125     | 188     |
| 峰值力矩  | Peak Torque1 (N-m)                 | 0.6     | 1.2     | 1.8     |
| 峰值电流  | Peak Current (Amps)                | 12      | 23.5    | 36      |
| 力矩常数  | Torque constant (N-m/Amps)         | 0.065   | 0.066   | 0.066   |
| 反电势常数 | Back EMF (V/kRPM)                  | 6.23    | 6.3     | 6.3     |
| 转动惯量  | Rotor inertia (g·cm <sup>2</sup> ) | 120     | 170     | 220     |
| 机身长   | Body Length (L) (mm)               | 59      | 80      | 101     |
| 重量    | Mass (kg)                          | 0.59    | 0.92    | 1.24    |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.





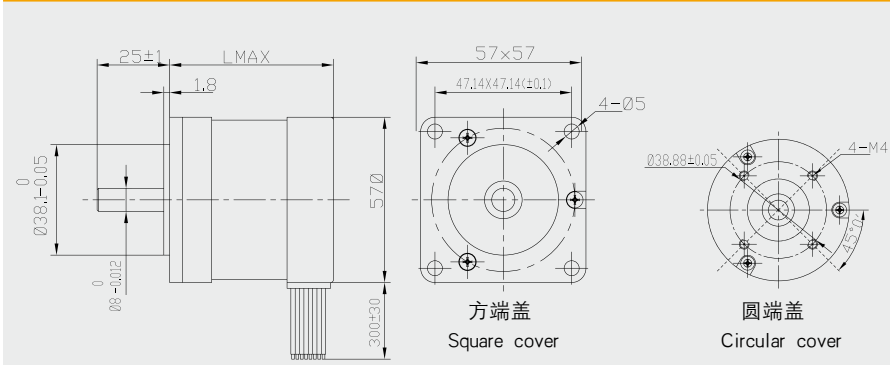
## 57BL系列 直流无刷电机 BRUSHLESS DC MOTOR



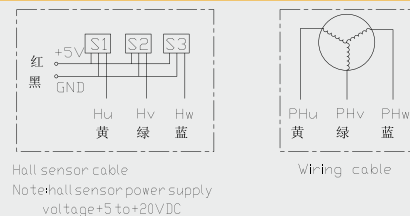
### M 机身说明 Motor Length

| 型号     | 机身长     |
|--------|---------|
| 57BL01 | 41.5mm  |
| 57BL02 | 46.5mm  |
| 57BL03 | 56.5mm  |
| 57BL04 | 66.5mm  |
| 57BL05 | 86.5mm  |
| 57BL06 | 106.5mm |

### M 外型图 Mechanical Dimensions



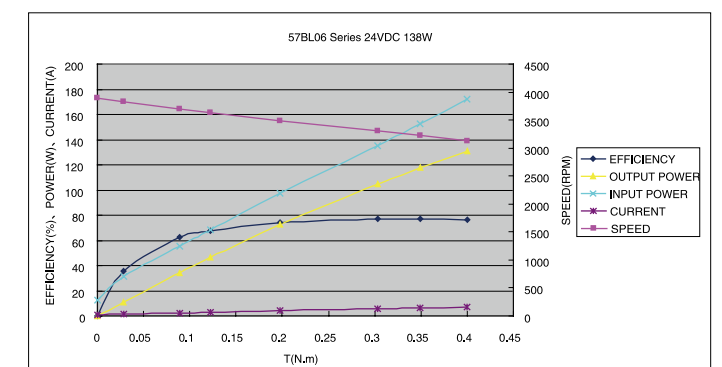
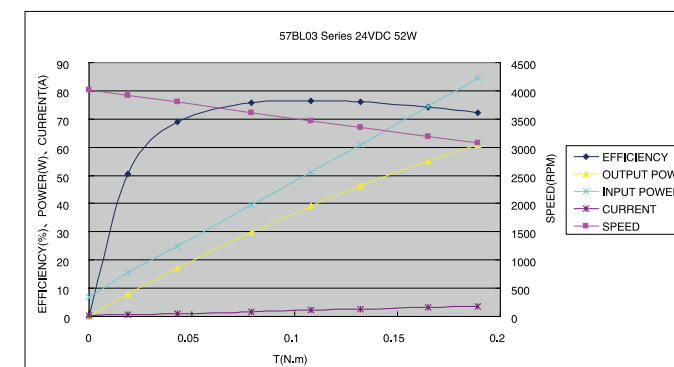
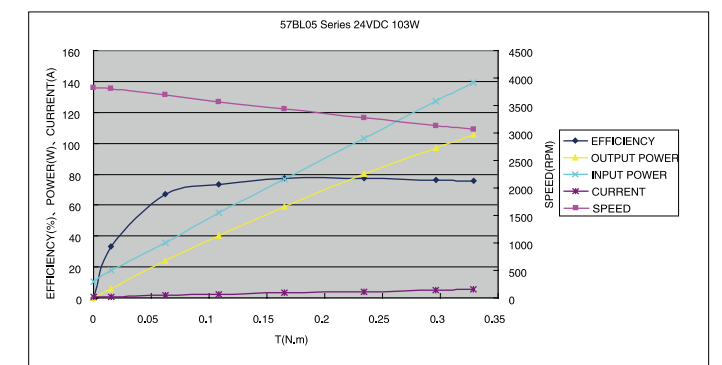
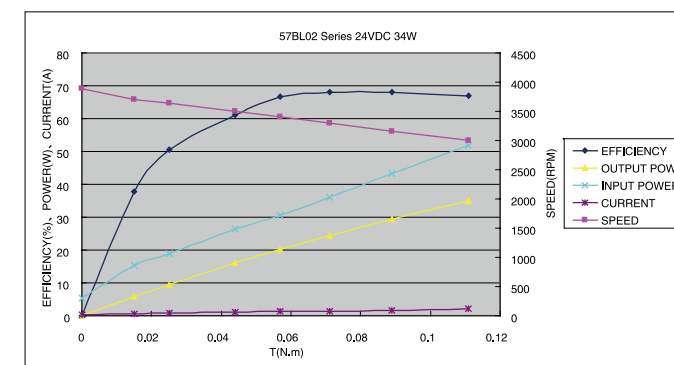
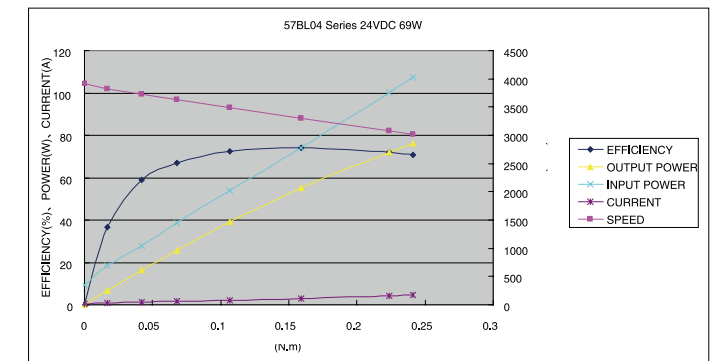
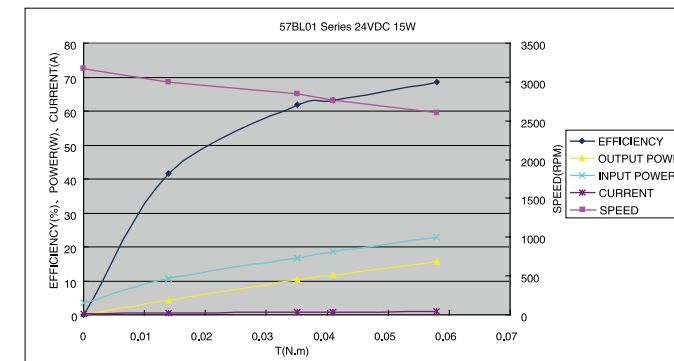
### W 接线图 Wiring Diagram



### E 技术数据 Electrical Specifications

| 型号    | Model                              | 57BL01 | 57BL02 | 57BL03 | 57BL04 | 57BL05 | 57BL06 |
|-------|------------------------------------|--------|--------|--------|--------|--------|--------|
| 极数    | Number of Poles                    | 4      | 4      | 4      | 4      | 4      | 4      |
| 相数    | Number of Phases                   | 3      | 3      | 3      | 3      | 3      | 3      |
| 额定电压  | Nominal Voltage (VDC)              | 24     | 24     | 24     | 24     | 24     | 24     |
| 额定转数  | Rated speed (RPM)                  | 2500   | 3000   | 3000   | 3000   | 3000   | 3000   |
| 额定力矩  | Continuous Torque (N-m)            | 0.057  | 0.11   | 0.165  | 0.22   | 0.33   | 0.44   |
| 额定电流  | Rated Current (Amps)               | 1.2    | 2.3    | 3.0    | 4.4    | 6.6    | 8.6    |
| 输出功率  | Output Power (Watts)               | 15     | 34     | 52     | 69     | 103    | 138    |
| 峰值力矩  | Peak Torque1 (N-m)                 | 0.18   | 0.38   | 0.58   | 0.8    | 1.2    | 1.6    |
| 峰值电流  | Peak Current (Amps)                | 3.6    | 6.8    | 9      | 13.2   | 19.8   | 25.8   |
| 力矩常数  | Torque constant (N-m/Amps)         | 0.074  | 0.06   | 0.061  | 0.062  | 0.062  | 0.063  |
| 反电势常数 | Back EMF (V/kRPM)                  | 7.75   | 6.3    | 6.4    | 6.5    | 6.5    | 6.6    |
| 转动惯量  | Rotor inertia (g·cm <sup>2</sup> ) | 32     | 42     | 58     | 72     | 106    | 140    |
| 机身长   | Body Length (L) (mm)               | 41.5   | 46.5   | 56.5   | 66.5   | 86.5   | 106.5  |
| 重量    | Mass (kg)                          | 0.34   | 0.42   | 0.55   | 0.66   | 0.89   | 1.15   |

\* 以上仅为代表性产品,派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.





## 86BLF系列

直流无刷电机

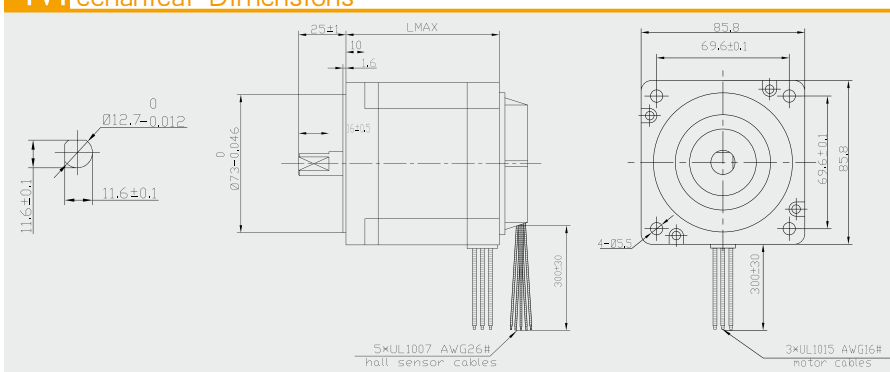
BRUSHLESS DC MOTOR



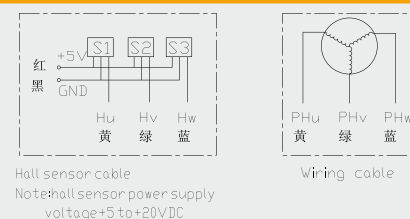
### M 机身说明 Motor Length

| 型号      | 机身长  |
|---------|------|
| 86BLF01 | 57mm |
| 86BLF02 | 67mm |
| 86BLF03 | 81mm |
| 86BLF04 | 94mm |

### M 外型图 Mechanical Dimensions



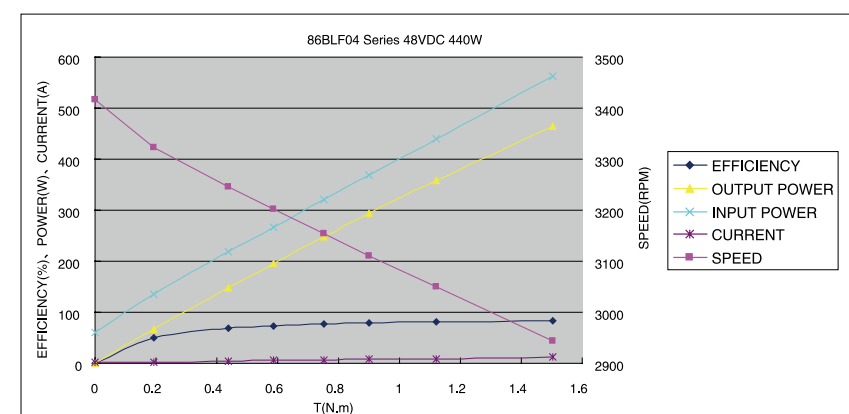
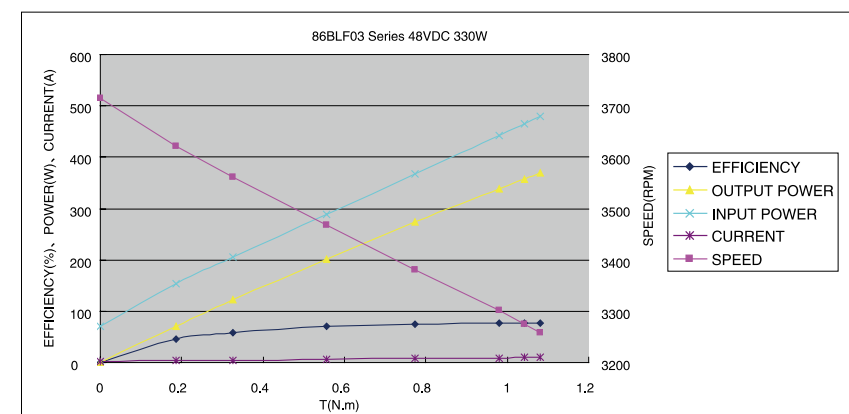
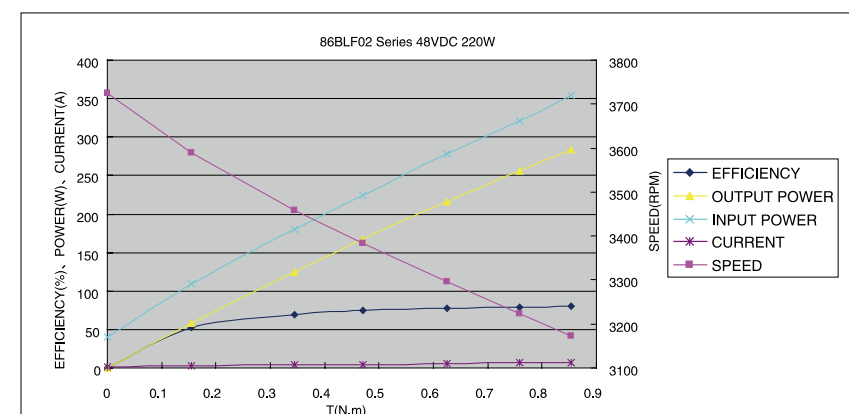
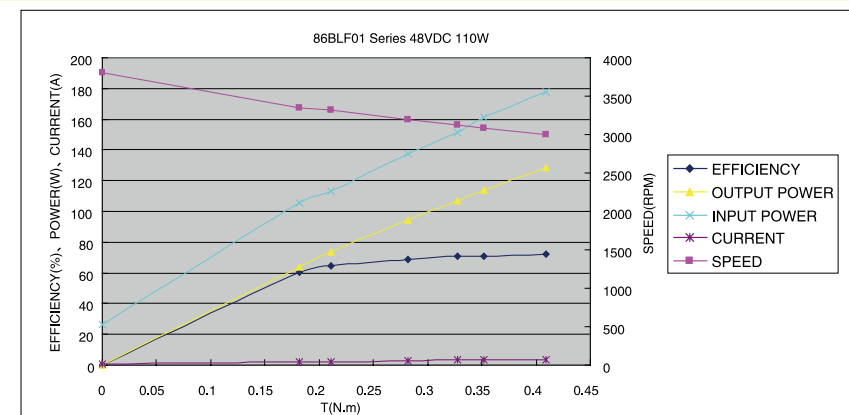
### W 接线图 Wiring Diagram



### E 技术数据 Electrical Specifications

| 型号    | Model                                | 86BLF01 | 86BLF02 | 86BLF03 | 86BLF04 |
|-------|--------------------------------------|---------|---------|---------|---------|
| 极数    | Number of Poles                      | 8       | 8       | 8       | 8       |
| 相数    | Number of Phases                     | 3       | 3       | 3       | 3       |
| 额定电压  | Nominal Voltage (VDC)                | 48      | 48      | 48      | 48      |
| 额定转数  | Rated speed (RPM)                    | 3000    | 3000    | 3000    | 3000    |
| 额定力矩  | Continuous Torque (N-m)              | 0.35    | 0.7     | 1.05    | 1.4     |
| 额定电流  | Rated Current (Amps)                 | 3.9     | 6.6     | 9.6     | 14      |
| 输出功率  | Output Power (Watts)                 | 110     | 220     | 330     | 440     |
| 峰值力矩  | Peak Torque1 (N-m)                   | 1.05    | 2.1     | 3.2     | 4.2     |
| 峰值电流  | Peak Current (Amps)                  | 10.8    | 19.8    | 29.0    | 38.0    |
| 力矩常数  | Torque constant (N-m/Amps)           | 0.11    | 0.11    | 0.11    | 0.128   |
| 反电势常数 | Back EMF (V/kRPM)                    | 11.5    | 11.5    | 11.5    | 13.5    |
| 转动惯量  | Rotor inertia (g · cm <sup>2</sup> ) | 350     | 650     | 950     | 1250    |
| 机身长   | Body Length (L) (mm)                 | 57      | 67      | 81      | 94      |
| 重量    | Mass (kg)                            | 1.1     | 1.75    | 2.2     | 2.75    |

\* 以上仅为代表性产品, 派生产品可根据客户要求制作。 We can manufacture products according to customer's requirement.





## S 单双极的选择 Select Unipolar and Bipolar

单极驱动仅使用电机的一半的线圈，所以单极状态下，电机没有太高的力矩。但是由于低电感，所以在高速的情况下，电机还可以保持高力矩。

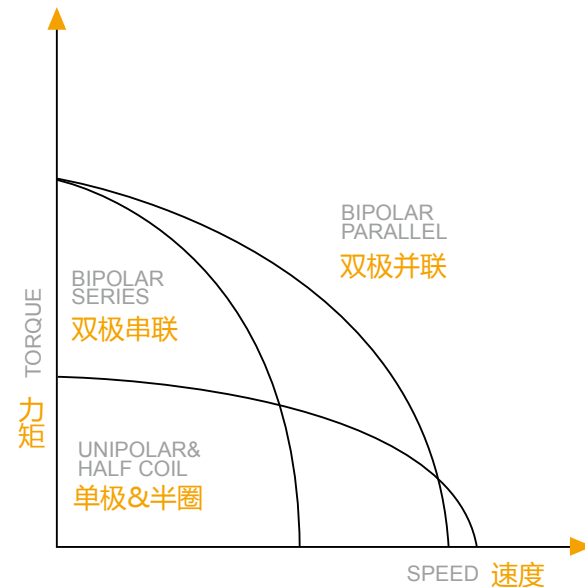
双极串联驱动使用的是完整的线圈，因此它可以保证在低速运行下，电机力矩平稳。但是由于高电感，高速力矩下降得会很快。

双极并联驱动也是使用完整的线圈，因此保证了低速运行下，电机保持良好的性能。但是由于电感很小，进而导致在高转数情况下，电机力矩仍可以维持。但是需要注意的是，只有把电流增加40%的时候，才可以达到以上的要求。

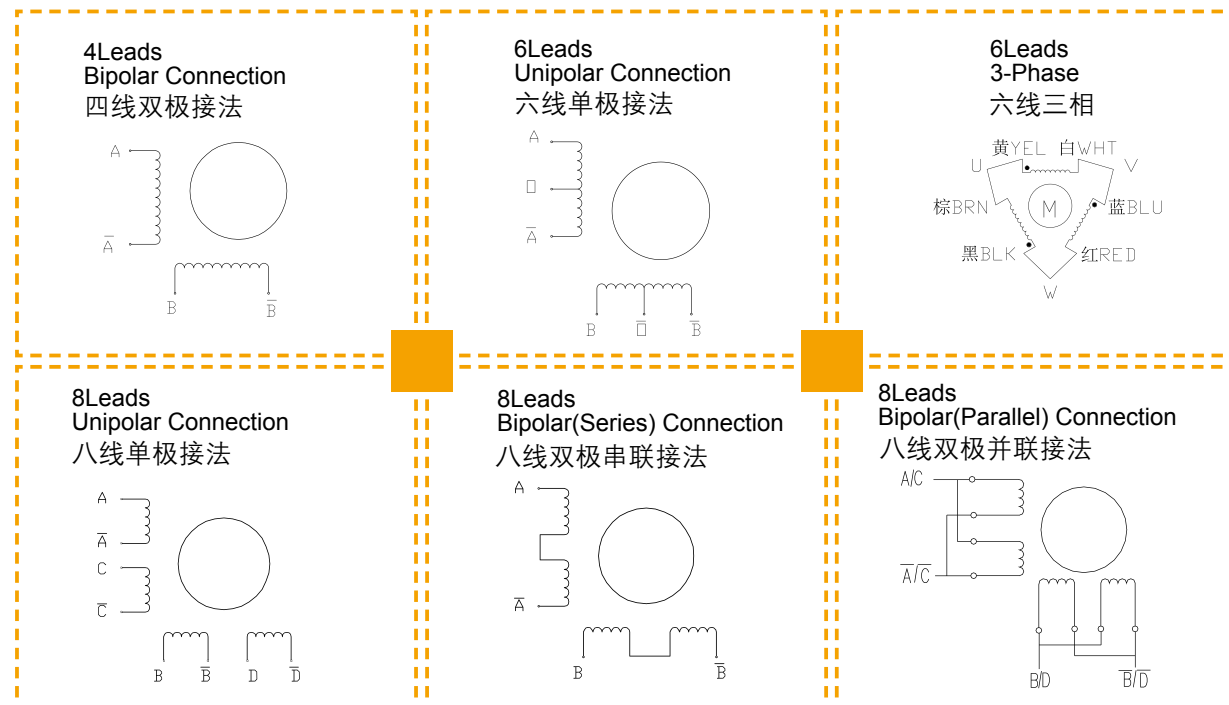
As unipolar connection, the coils are just half-winded, the holding torque is smaller in some extent. Because of its lower inductance, when the speed of motor is high, its output holding torque is very smooth and steady.

Bipolar Series use the full coil so it gives very good low speed torque. But due to the high inductance, the torque drops off rapidly.

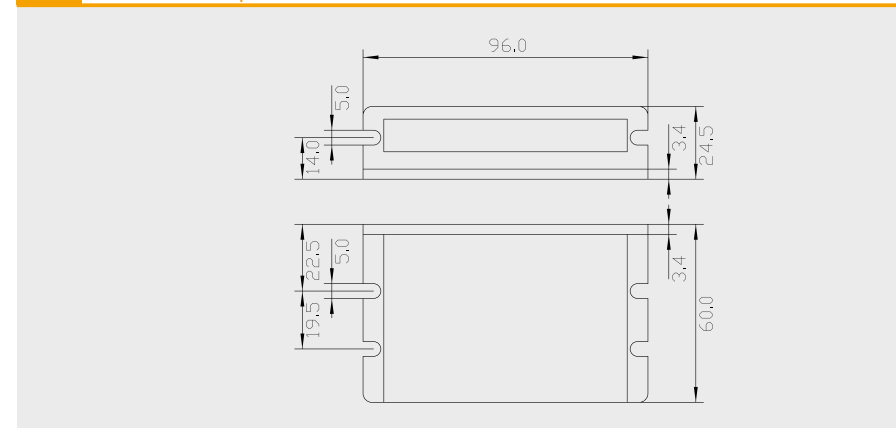
Bipolar Parallel also uses the full coil so it gives good low speed performance. And its low inductance allows the torque to be held out to high speeds. But remember, we must increase current by 40% to get those advantages.



## W 接线示意图 Wire Connection Diagrams



## M 安装尺寸 Mechanical Specification



## DM420 混合式步进电机驱动器



## D 概述 Descriptions

DM420型细小型两相混合式步进电机驱动器，采用直流12~36V供电，适合驱动电压24V~36V，电流小于2.0A外径42~57毫米的两相混合式步进电机。此驱动器采用全数字电流环进行细分控制，电机的转矩波动小，低速运行平稳，振动和噪音低。高速时可输出相对较高的力矩，定位精度高。广泛适用于雕刻机、数控机床、包装机械、传动设备等分辨率要求较高的设备上。

DM420 is a type of two-phase hybrid stepping motor driver, The drive voltage of which is from 12VDC to 36VDC. It is designed for use with 2-phase hybrid stepper motor of all kinds with 20mm to 42mm outside diameter and less than 2.0A phase current. This circuit that it adopts is similar to the circuit of servo control which enables the motor run smoothly almost without noise and vibration. Holding torque when DM420 run under high speed is also significantly higher than the other two-phase driver, what's more, the positioning accuracy is also higher. It is widely used in middle and big size numerical control devices such as curving machine, CNC machine, and computer embroider machine, packing machines and so on.

## F 特点 Features

- ★ 平均电流控制，两相正弦电流驱动输出
- ★ 直流12~36V供电
- ★ 光电隔离信号输入/输出
- ★ 有过压、欠压、过流、过热、相间短路保护功能
- ★ 八档细分和自动半流功能
- ★ 八档输出相电流设置
- ★ 具有脱机信号输入端子
- ★ 高启动转速，高速力矩大
- ★ Average current control, 2-phase sinusoidal output current drive
- ★ Supply voltage from 12VDC to 36VDC
- ★ Opto-isolated signal I/O
- ★ Overvoltage, under voltage, overcurrent, phase short circuit protection
- ★ 8 channels subdivision and automatic idle-current reduction
- ★ 8 channels output phase current setting
- ★ Offline command input terminal
- ★ High start speed, High holding torque under high speed

## M 性能指标 Mechanical Dimensions

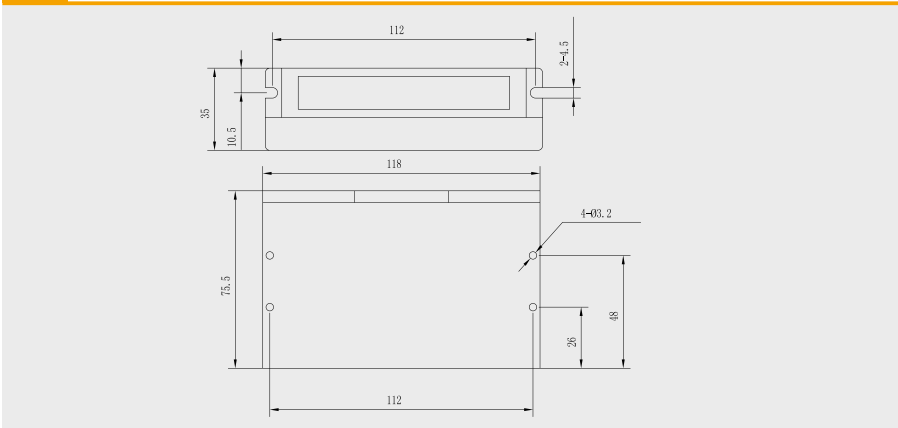
|      |                           |                |                                                            |
|------|---------------------------|----------------|------------------------------------------------------------|
| 输入电压 | 直流12~40V输入(极限)            | Input voltage  | 12-36VDC                                                   |
| 输入电流 | 小于2.0安培                   | Input current  | < 2.0A                                                     |
| 输出电流 | 0.44A~2.83A(PEAK)         | Output current | 0.44A- 2.83A                                               |
| 功耗   | 功耗: 40W                   | Consumption    | Consumption : 40W ;                                        |
| 温度   | 工作温度-10~45℃; 存放温度-40℃~70℃ | Temperature    | Working Temperature -10~45℃; Stocking temperature -40℃~70℃ |
| 湿度   | 不能结露, 不能有水珠               | Humidity       | Not condensation, no water droplets                        |
| 气体   | 禁止有可燃气体和导电灰尘              | Gas            | Prohibition of combustible gases and conductive dust       |
| 重量   | 70克                       | Weight         | 70G                                                        |



DM542  
混合式步进电机驱动器



M 安装尺寸  
Mechanical Specification



D 概述  
Descriptions

DM542型细分型两相混合式步进电机驱动器，采用直流18~50V供电，适合驱动电压18V~50V，电流小于4.0A外径42~86毫米的两相混合式步进电机。此驱动器采用交流伺服驱动器的电流环进行细分控制，电机的转矩波动很小，低速运行很平稳，几乎没有振动和噪音。高速时力矩也大大高于其它二相驱动器，定位精度高。广泛适用于雕刻机、数控机床、包装机械等分辨率要求较高的设备上。

DM542 is a type of two-phase hybrid stepping motor driver, The drive voltage of which is from 18VDC to 50VDC. It is designed for use with 2-phase hybrid stepper motor of all kinds with 42mm to 86mm outside diameter and less than 4.0A phase current. This circuit that it adopts is similar to the circuit of servo control which enables the motor to run smoothly almost without noise and vibration. Hording torque when DM542 runs under high speed is also significantly higher than the other two-phase driver, what's more, the positioning accuracy is also higher. It is widely used in middle and big size numerical control devices such as curving machine, CNC machine, Computer embroider machine, packing machines and so on.

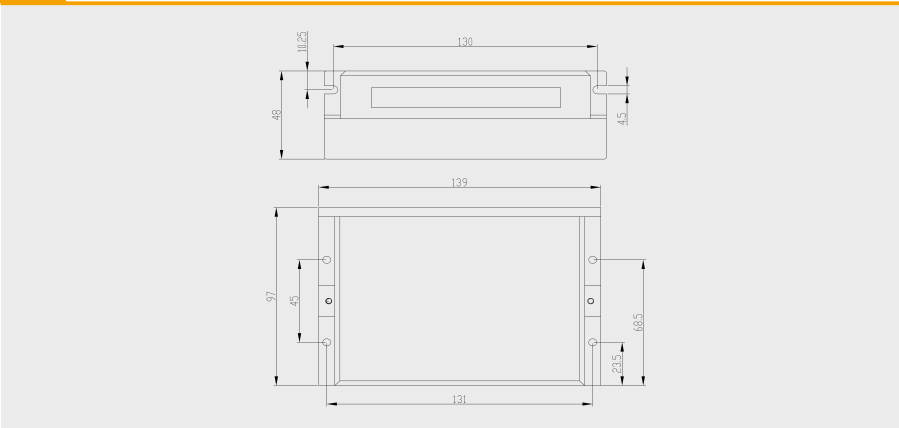
F 特点  
Features

- ★ 平均电流控制，两相正弦电流驱动输出
- ★ 直流18~50V供电
- ★ 光电隔离信号输入/输出
- ★ 有过压、欠压、过流、相间短路保护功能
- ★ 十五档细分和自动半流功能
- ★ 八档输出相电流设置
- ★ 具有脱机命令输入端子
- ★ 电机的扭矩与它的转速有关，而与电机每转的步数无关
- ★ 高启动转速
- ★ 高速力矩大
- ★ Average current control, 2-phase sinusoidal output current drive
- ★ Supply voltage from 18VDC to 50VDC
- ★ Opto-isolated signal I/O
- ★ Overvoltage, under voltage, overcorrect, phase short circuit protection
- ★ 15 channels subdivision and automatic idle-current reduction
- ★ 8 channels output phase current setting
- ★ Offline command input terminal
- ★ Motor torque is related to speed, but not related with step/revolution
- ★ High start speed
- ★ High hording torque under high speed

M 性能指标  
Mechanical Dimmensions

|      |                          |                |                                                           |
|------|--------------------------|----------------|-----------------------------------------------------------|
| 输入电压 | 直流18~50V输入               | Input voltage  | 18-50VDC                                                  |
| 输入电流 | 小于4安培                    | Input current  | < 4A                                                      |
| 输出电流 | 1.0A~4.2A                | Output current | 1.0A~4.2A                                                 |
| 功 耗  | 功耗：80W； 内部保险：6A          | Consumption    | Consumption：80W； Internal Insurance：6A                    |
| 温 度  | 工作温度-10~45℃；存放温度-40℃~70℃ | Temperature    | Working Temperature -10~45℃；Stocking temperature -40℃~70℃ |
| 湿 度  | 不能结露，不能有水珠               | Humidity       | Not condensation, no water droplets                       |
| 气 体  | 禁止有可燃气体和导电灰尘             | gas            | Prohibition of combustibile gases and conductive dust     |
| 重 量  | 200克                     | weight         | 200G                                                      |

M 安装尺寸  
Mechanical Specification



DM860  
混合式步进电机驱动器



D 概述  
Descriptions

DM860型细分型两相混合式步进电机驱动器，采用直流24~80V供电，适合驱动电压24V~80V，电流小于8.0A外径57~110毫米的两相混合式步进电机。此驱动器采用交流伺服驱动器的电流环进行细分控制，电机的转矩波动很小，低速运行很平稳，几乎没有振动和噪音。高速时力矩也大大高于其它二相驱动器，定位精度高。广泛适用于雕刻机、数控机床、包装机械等分辨率要求较高的设备上。

DM860 is a type of two-phase hybrid stepping motor driver. The drive voltage of which is from 24VDC to 80VDC. It is designed for use with 2-phase hybrid stepper motor of all kinds with 57mm to 110mm outside diameter and less than 7.8A phase current. This circuit that it adopts is similar to the circuit of servo control which enables the motor to run smoothly almost without noise and vibration. Hording torque when DM860 runs under high speed is also significantly higher than the other two-phase driver, what's more, the positioning accuracy is also higher. It is widely used in middle and big size numerical control devices such as curving machine, CNC machine, and computer embroider machine, packing machines and so on.

F 特点  
Features

- ★ 平均电流控制，两相正弦电流驱动输出
- ★ 直流24~80V供电
- ★ 光电隔离信号输入/输出
- ★ 有过压、欠压、过流、过热、相间短路保护功能
- ★ 十四档细分和自动半流功能
- ★ 八档输出相电流设置
- ★ 具有脱机信号输入端子
- ★ 高启动转速
- ★ 高速力矩大
- ★ Average current control, 2-phase sinusoidal output current drive
- ★ Supply voltage from 24VDC to 80VDC
- ★ Opto-isolated signal I/O
- ★ Overvoltage, under voltage, overcorrect, phase short circuit protection
- ★ 14 channels subdivision and automatic idle-current reduction
- ★ 8 channels output phase current setting
- ★ Offline command input terminal
- ★ High start speed
- ★ High hording torque under high speed

M 性能指标  
Mechanical Dimmensions

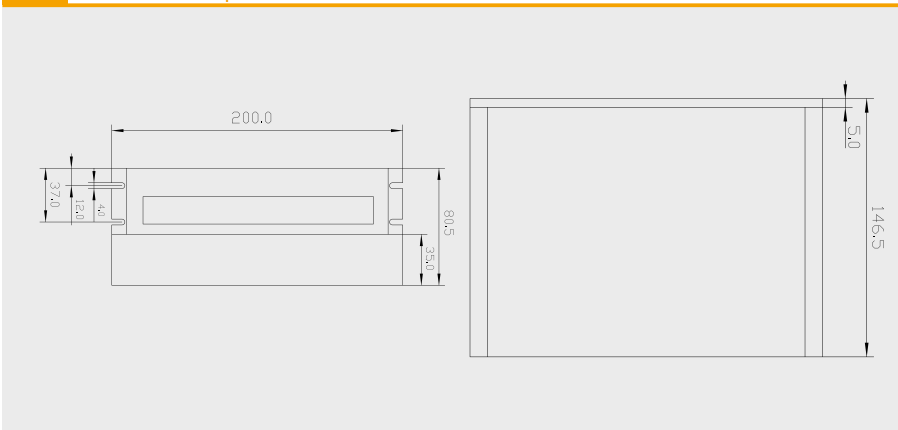
|      |                          |                |                                                           |
|------|--------------------------|----------------|-----------------------------------------------------------|
| 输入电压 | 直流24~80V输入               | Input voltage  | 24-80VDC                                                  |
| 输入电流 | 小于6安培                    | Input current  | < 6A                                                      |
| 输出电流 | 2.8A~7.8A                | Output current | 2.8A~7.8A                                                 |
| 功 耗  | 功耗：80W； 内部保险：10A         | Consumption    | Consumption：80W； Internal Insurance：10A                   |
| 温 度  | 工作温度-10~45℃；存放温度-40℃~70℃ | Temperature    | Working Temperature -10~45℃；Stocking temperature -40℃~70℃ |
| 湿 度  | 不能结露，不能有水珠               | Humidity       | Not condensation, no water droplets                       |
| 气 体  | 禁止有可燃气体和导电灰尘             | gas            | Prohibition of combustibile gases and conductive dust     |
| 重 量  | 550克                     | weight         | 550G                                                      |



DM2722  
混合式步进电机驱动器



M 安装尺寸  
Mechanical Specification



D 概述  
Descriptions

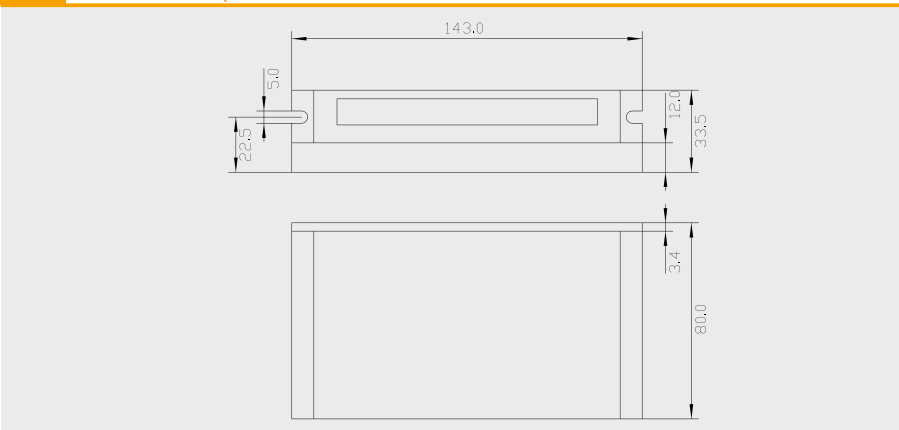
DM2722它是将先进的DSP控制芯片和独特的控制电路结合在一起所构成的新一代全数字步进电机驱动器。驱动电压为AC110V-230V，适配电流在7.0A以下、外径86-130mm的各种型号的两相混合式步进电机。该驱动器内部采用类似伺服控制原理的电路，此电路可以使电机运行平稳，几乎没有振动和噪音。定位精度最高可达40000步/转。该产品广泛应用于雕刻机、中型数控机床、电脑绣花机、包装机械等分辨率较高的大、中型数控设备上。

The DM2722 is full digital 2 phase stepper driver based on DSP control. The drive voltage of which is from 110V to 230VAC. It is designed for use with the 2 phase hybrid stepper motor of all kinds with 86mm to 130mm outside diameter, regulated phase current 1.2A to 7.0A. The circuit that it adopts is similar to the circuit of servo control which enables the motor run smoothly without noise and vibration. The highest micro step is 60000ppr. It is widely used in middle and big size numerical control devices such as curving machine, CNC machine, computer embroider machine, packing machine and etc.

F 特点  
Features

- ★ 设有16档细分，最高分辨率40000步/转
- ★ 驱动电流1.2A/相到7.0A/相分16档可调
- ★ 最高反应频率可达200Kpps
- ★ 步进脉冲停止超过100ms时，线圈电流自动减到设定电流的一半
- ★ 光电隔离信号输入
- ★ 单电源输入，电压范围：AC110V-230V
- ★ 16 channels constant angle, constant torque micro steps, highest micro step: 40000ppr
- ★ Drive current is adjustable in 16 channels from 1.2A/phase to 7.0A/phase
- ★ Highest response frequency: 200Kpps
- ★ Current of winding will be reduced by approximately 50% when no step pulse command is received for 0.1 second
- ★ Opto-isolated signal I/O
- ★ Single power supply from 110V to 230VAC

M 安装尺寸  
Mechanical Specification



D 概述  
Descriptions

BLDC-8015A 直流无刷电机驱动器是针对于小功率直流无刷电机驱动的高科技产品。本产品采用超大规模的硬件集成电路，具有高度的抗干扰性及快速的响应性，从控制性能上与传统直流电机相比又具有免维护、长寿命、恒力矩等优势。本品适合驱动峰值电流在15A以下、电源电压在80V以内的任何一款低压三相无刷直流电机，广泛应用于针织设备、医疗设备、食品机械、电动工具、园林机械等一系列电气自动化控制领域。

F 特点  
Features

- ★ PWM方波脉宽调制技术，电流、速度双闭环，低速力矩大，运转平稳
- ★ 高速力矩输出平稳，最高转速达8000 rpm/min
- ★ 最大1:75调速比，与4对级无刷直流电机配套时，最低转速可达60rpm/min（电机级数越多，调速比越宽）
- ★ 灵活的霍尔磁极位置设定，60°/300°/120°/240°角度可选，适配不同规格电机
- ★ 提供两种调速方式：面板电位器给定、模拟量输入端子给定，方便用户使用
- ★ 启停、快速制动、正反转切换输入信号（光电隔离）
- ★ 测速输出、报警输出信号（光电隔离，OC门输出）
- ★ 过流、过压、堵转、电机失控报警

BLDC-8015A brushless DC motor driver is a high-tech product which is targeted at low-power brushless DC motor driving. This product uses the very large scale integrated circuit, and it has a high degree of noise immunity, and fast response. Compared with the traditional DC motor, it also has advantages of maintenance-free, life-long and torque-constant. This product is suitable for any low-voltage three-phase brushless DC motor with peak current which is less than 15A and with supply voltage within 80V. It is widely used in knitting equipment, medical equipment, food machinery, power tools, garden machinery and a series of electrical automation control field.

- ★ SPWM, Speed/Current alike close loop technology, smooth rotation
- ★ Smooth torque output within speed range (8000 rpm Max.)
- ★ 1:75 Max. speed regulation ratio
- ★ 60°/300°/120°/240° Electrical angle adjustable
- ★ Speed regulation: potentiometer adjust / Analog input
- ★ Run/Step, Quick Brake, CW/CCW rotation shift
- ★ Speed output, Alarm output (O.C.)
- ★ Over current, over voltage, stall, missing speed Alarm

M 性能指标  
Mechanical Dimensions

|      |                          |                     |                                  |
|------|--------------------------|---------------------|----------------------------------|
| 输入电源 | 24~50V直流电源供电，容量：根据电机功率选择 | Power               | 24~50VDC, Capacity: up to motors |
| 输出电流 | 额定15A，瞬时最大45A (≤3s)      | Current output      | Rated 15A, Peak 45A (≤3s)        |
| 驱动方式 | SPWM正弦波驱动输出              | Driving mode        | SPWM                             |
| 绝缘电阻 | 常温常压下>500MΩ              | Insulation Res.     | >500MΩ                           |
| 绝缘强度 | 常温常压下500V/分钟             | Dielectric Strength | 500V/Minute                      |
| 重量   | 约300克                    | Weight              | About 300g                       |

## S 出轴方式 Shaft Mode



## L 接线方式 Lead Wire Mode

