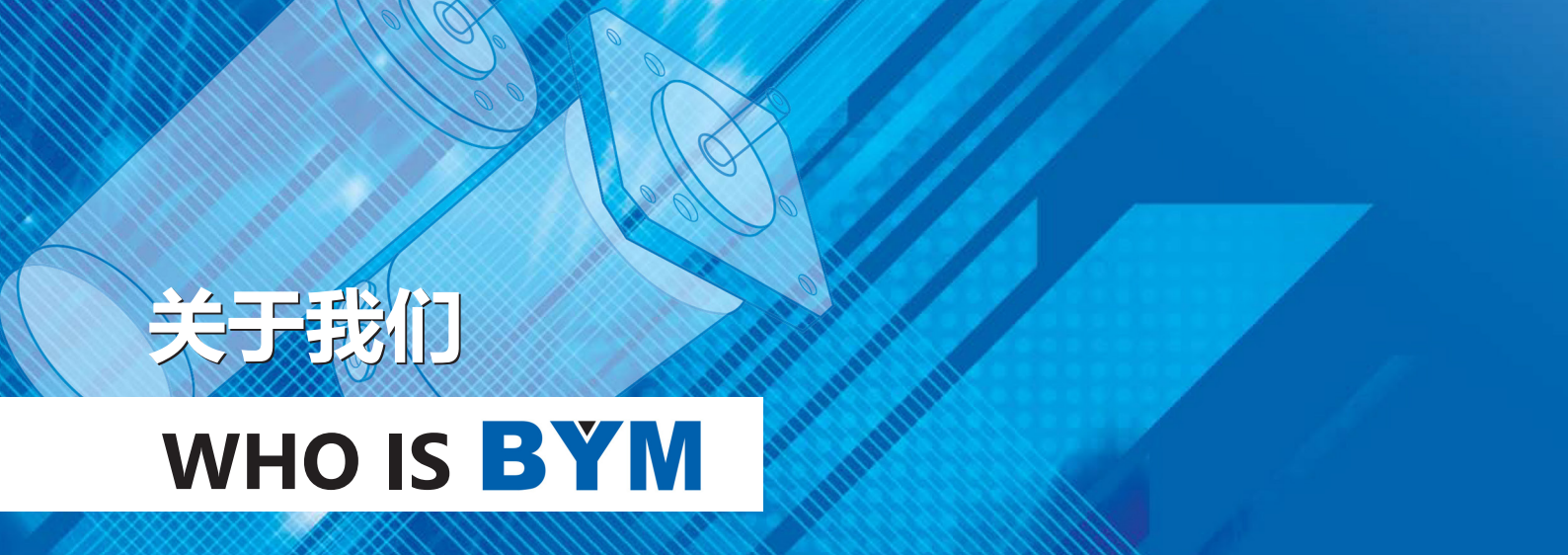


BYM

常州百原电机制造有限公司
CHANGZHOU BAIYUAN
MOTOR MANUFACTURING CO.,LTD





关于我们

WHO IS BYM

常州百原电机制造有限公司 (BYM) 成立于 2000 年 5 月, 坐落于中国更具经济活力的长江三角洲核心区。我们专注于永磁直流电机、无刷电机、步进电机、空心杯电机、无框力矩电机、磁阻电机、减速电机及机电一体化系统的研发设计与智能制造, 致力于为全球客户提供标准化与定制化并举的创新驱动解决方案。

二十余载砥砺前行, 我们秉持 "以技术创新实现高性价比与品质的平衡" 的企业使命, 构建起贯穿研发、生产、服务的全价值链体系。公司坚持 "以诚立业, 以客兴企" 的核心价值观, 通过 ISO 9001 质量管理体系认证和 IATF 16949 汽车行业认证, 将质量基因植入产品全生命周期管理。

依托长三角完善的产业链资源和创新生态, 我们已形成覆盖工业自动化、智慧出行、绿色能源等领域的多元化产品矩阵。目前 80% 的电机系统出口至西欧及北美市场, 为全球知名企业提供战略级配套支持, 应用场景涵盖: 智能控制、新能源压缩机、医疗设备、工程机械、新能源乘用车及商用车底盘系统、自动售货设备、健康器材等前沿领域。通过深度参与客户产品的迭代升级, 我们持续践行 "让动力创造价值" 的品牌承诺, 以科技赋能全球产业智能化转型。

Changzhou Baiyuan Motor Manufacturing Co., Ltd. (BYM) was established in May 2000 and is located in the core area of China's more economically dynamic Yangtze River Delta. We focus on the research and development, design, and intelligent manufacturing of permanent magnet DC motors, brushless motors, stepper motors, hollow cup motors, frameless torque motors, reluctance motors, reduction motors, and mechatronics systems. We are committed to providing innovative driving solutions that combine standardization and customization for global customers.

After more than 20 years of hard work and cultivation, we adhere to the corporate mission of "achieving a balance between high cost-effectiveness and quality through technological innovation", and have built a full value chain system that runs through research and development, production, and service. The company adheres to the core values of "integrity-based business, customer driven enterprise", and has passed ISO 9001 quality management system certification and IATF 16949 automotive industry certification, embedding the quality gene into product life cycle management.

Relying on the well-established industrial chain resources and innovative ecology of the Yangtze River Delta, we have formed a diversified product matrix covering industrial automation, smart travel, green energy and other fields. Currently, 80% of motor systems are exported to the Western European and North American markets, providing strategic support to globally renowned enterprises. Their application scenarios cover cutting-edge fields such as intelligent control, new energy compressors, medical equipment, engineering machinery, chassis systems for new energy passenger and commercial vehicles, vending equipment, and health equipment. By deeply participating in the iteration and upgrading of customer products, we continue to fulfill our brand commitment of "creating value with power" and empower the global industrial intelligent transformation with technology.



2000-2005

2000

2000 年 5 月 BYM 公司成立。

In May 2000, BYM Corporation was established.



2002

2002 年获得 ISO9001, ITAF16949, 并成为丰田 BT 叉车二级供应商。

Received the ISO9001 in 2002, ITAF16949, and became a Tier 2 supplier of Toyota BT forklift truck.



2005

建设一期 15000m² 厂房, 德国宝马二级供应商。

Construction of phase I is 15,000 m² Factory plant, became Germany BMW Tier 2 supplier.



2009-2014

2009

2009 年 BYM 成为德国大众二级供应商。

In 2009, BYM became a Tier 2 supplier of Volkswagen in Germany.



Volkswagen

2014

2014 年 BYM 成为全球顶级全地形车厂北极星 Polaris 一级供应商, 建设二期 20000 m² 厂房。

In 2014, BYM became the world's top all-terrain automaker Polaris Polaris Tier One supplier, Construction phase II: 20000m² factory plant.



2022- 至今

2022

2022 年获得南方精工 (002553) 资本支持。

In 2022, BYM received capital support from Nanfang Seiko (002553).



2022

2023 年成为盖瑞特全球供应商, 孔辉供应商。

In 2022, it became a global supplier of Garret and a supplier of Kong Hui.



为什么是 BYM ?

WHY BYM

BYM 依托优良的品质，有竞争力的价格，及时的交货以及可靠的服务，与客户建立保持着长期和谐友好的合作关系。与此同时，在我们合约制造（Contract Manufacturing）业务中，我们深知客户对于其知识产权保护的关切，因此我们将其放在高于我们自身知识产权的保密级别来加以善待。

High quality, competitive cost, timely delivery, and reliable service provided by us to our customers are major reasons that the business relationship can be harmoniously maintained and continuously strengthened in a long term at BYM. Meanwhile in our contract manufacturing business, we fully understand our customers' concern about the intellectual property (IP) protection so that we keep their IP with even higher confidentiality than ours.

质量 Quality



2001 年 8 月公司通过 ISO9001 质量管理体系认证，2005 年 2 月公司通过 ISO/TS16949 质量管理体系认证，2008 年 12 月公司通过 ISO14001 质量管理体系认证。2013 年我们为前 10 位客户配套产品的质量记录保持在 50PPM。“BYM 制造”就是质量保证。

We were certified with ISO 9001:2000 in August 2001, ISO/TS 16949:2002 in February 2005, and ISO 14000:2004 in December 2008. And our quality record in 2013 with the Top 10 customers all stayed within 50PPM. Quality is guaranteed with “Made by BYM”.

服务 Service



我们为您提供全程一站式的服务，包括工程咨询、进出口贸易、物流支持、寄销存货、售后市场服务等。

在诸多应用案例中，对于用户而言，电机就像装满很多未知因素的黑盒子。如何协助他们快速地对这个黑盒子进行参数化和优化——对于我们而言正是一个绝佳的机会，为客户最大程度的减少开发风险，节约时间，从而降低成本。

We provide full service to our customers throughout the whole business process, including engineering consultation, import or export, logistics support, consignment inventory, after sales service etc.

In quite some cases, the motor was just like a black box with too many unknown factors to its end users. How to assist them to rapidly parameterize or optimize the applications of this black box was always a good opportunity for us to bring our added value to our customers who can maximally reduce their own development risk and time and then cost accordingly.

交货 Delivery



正是得益于我们高效、完整的供应链和精益生产过程，我们一如既往的兑现着对客户所做出的承诺——按时交货。此外，正是认识到全球的市场需求总是处于不断的变化，我们依靠内部的密切团队协作和供应商的高效支持，总是能够灵活满足主机厂客户的各种紧急交货需求。

Again as we benefit from our efficient and complete supply chain as well as our lean manufacturing process, we always deliver to our customers on time per our commitment. Moreover with our strong internal coordination and effective support from suppliers we're flexible enough to meet some urgent delivery requirement of our OEM customers due to their changing market needs which can often happen all over the world.

成本 Cost



在公司内部，依靠卓越的研发和设计，我们不仅生产出高效率的产品，还实现了高效率的生产过程；通过采用 ERP 系统，我们将所有的制造资源纳入到精益管理之中。在公司外部，借助国内成熟的电机零部件供应链以及模具配套体系，我们为客户提供了更具价格竞争力的产品。

Internally with our outstanding design we make our products as well as manufacturing processes at high efficiency; with our ERP system we put all our manufacturing resources under lean management. Externally with the most mature supply chain of motor components and tooling locally in China we can offer our customers at competitive prices.

忠诚 Loyalty



历经十余年全球化的业务征程，我们目睹了诸多因合同制造商违反知识产权而导致合作不成功的案例。BYM 与生俱来的基因就是对客户、员工以及供应商的忠诚。也正是由于 BYM 一贯秉持忠诚透明，客户才能够放心和信心地与 BYM 开展长期的业务合作。

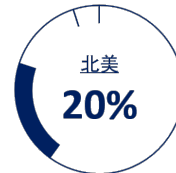
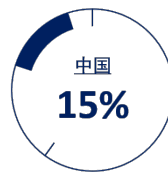
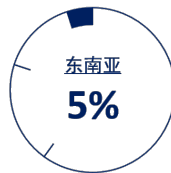
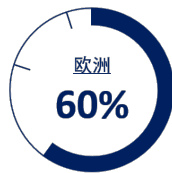
With our one decade global business experience, we've witnessed so many unsuccessful cooperation cases due to the breach of the IP by the contract manufacturers. Fundamentally BYM was born and grown with "gene" loyal to its customers, employees, and suppliers. Always with loyalty and transparency to our customers indeed makes them comfortable and confident by keeping their business in BYM.

无论你是公司采购专员，采购经理，工程师，生产经理，营销经理或者产品经理，请记住 BYM 随时可为您量身订制开发或者逆向制作电机产品，以解决您所关注的降低成本，提高品质，提升服务以及交货及时等问题。通过我们的配套服务以确保您的生产线正常运转，进而获得您的信任与信赖。

Whether you are a company Buyer, Outsourcing Manager, Engineer, Production Manager or Marketing/Product Manager, please remember BYM who stands ready to help with a new custom engineered motor, reverse engineered motor design to reduce costs, improve quality, and improve service or to resolve delivery issues. This service is from a supply partner you can trust and rely on to keep your production lines running.

Direct Customer

直接客户



Company Strengths

公司优势

01

认证及荣誉

Certification and Honor

权威认证

Authorized certification



IATF16949



ISO9001



ISO14001



Product Certification

证书墙荣誉

Honored Credentials



02

PLM 管理

PLM Management

采用数字化产品的全生命周期管理系统（PLM），PLM 固化 IATF 16949 体系，实现图文档管理、产品结构管理、生命周期 / 工作流程管理、工程变更管理、项目管理、制造过程管理（工艺管理）、质量管理等功能，与主流 MCAD/ECAD 设计工具及 ERP、MES 系统进行紧密集成；

We utilize a digital product lifecycle management (PLM) system, integrated with the IATF 16949 standard, to manage document control, product structure, lifecycle/workflow, engineering changes, project management, manufacturing processes, and quality management. The system is seamlessly integrated with mainstream MCAD/ECAD design tools, ERP, and MES systems.

实现数据可视化 · 规范化 · 标准化管理；实现领导管人 · 流程管事的信息化目标。

This enables data visualization, standardization, and streamlined management, supporting effective leadership and process oversight.

多 CAD 数据管理

Multi-CAD data management



基于模型的交流: ECAD/MCAD, 文件, 相关信息。

Model-based communication: ECAD/MCAD, documents, related information.

项目管理

Project management



内 / 外部团队协作: 计划、成本、可交付结果。

Internal/external teamwork: plans, cost, deliverables.

制造

Fabrication



确保可复用性和规模生产: MBOM、公益计划、工作指导、可视化。

Ensure reusability and scale production: MBOM, process planning, work instructions, visualisation.

BOM 转换

BOM Transformation



通过关联和可追溯性在参与者之间实现动态、快速、协调一致的变更。

Enable dynamic, rapid, coordinated change between participants through linkage and traceability.

变更管理

Change Management



BOM: 产品的“DNA” - 完整的, 多学科的数字化产品定义。
BOM: The “DNA” of the product - a complete, multidisciplinary digital product definition.

产品平台结构

Product Platform Structure



通过战略性的创建和管理产品变体来简化开发过程。

Streamline the development process by strategically creating and managing product variants

安全访问

Security Access

需求可追踪

Demand Traceability

零部件分类

Component Classification



标准化零件、数据和规范, 以便更好地 / 更快地搜索和重用。
Standardised parts, data and specifications for better/faster search and reuse.

元器件供应商管理

Component Supplier Management



将产品、组件和零件等关联数据链接到已排名的供应商。
Linked data on products, components and parts to ranked suppliers.

质量

Mass

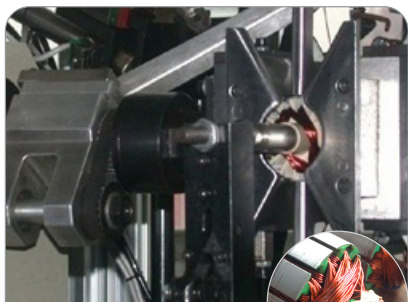


数据驱动的需求和成本, 预测和预防, 风险和安全分析, 跟踪和纠正问题。
Data-driven demand and cost, forecasting and prevention, risk and safety analysis; tracking and correcting issues.

03

生产制造能力

Manufacturing Capacity



自动绕线
Automatic winding



齿轴加工
Tooth shaft processing



加工中心
Machining center



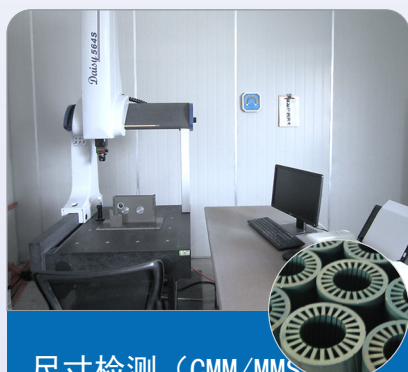
电枢组件
Armature components



电机组装
Motor assembly



电机性能测试
Motor performance test



尺寸检测 (CMM/MMS)
Dimension testing (CMM/
MMS)



型式试验 (温度等)
Temp test (temp, etc.)

Our Products

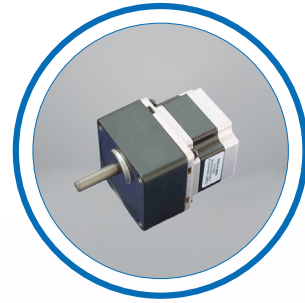
主营产品



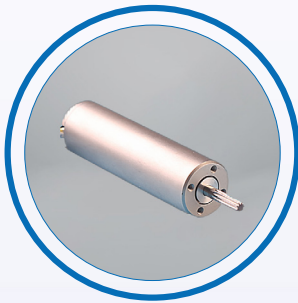
无刷直流电机
BLDC Motor



永磁直流电机
PMDC Motor



步进电机
Stepper Motor



空心杯电机
Coreless Motor



减速电机
Gearbox Motor



启动电机
Starter Motor



低压伺服电机
Low Voltage Servo Motor

BYM 无刷电机 BL MOTORS



序号 NO.	型号 Model	极数	相数	电压	空 载	额 定 Rated				Shape		Shaft		length Core		永磁 permanent magnet	备注 remark
		Poles	Phases	Voltage	No Load					□	○	Da	Db	L1	L2		
		P	m	V	r/min	r/min	A	N.m	W	mm	mm	mm	mm	mm	mm		
1	42ZWX01	8	3	24	5000	4000	1.65	0.063	26	42.2		5	5	40.5	20	粘结钕铁硼 Bonded NdFeB	
2	42ZWX02	8	3	24	5000	4000	3.40	0.125	52	42.2		5	5	60.5	40		
3	42ZWX03	8	3	24	5000	4000	4.50	0.185	77	42.2		5	5	80.5	60		
4	57ZWX01	4	3	36	5200	4000	1.90	0.11	46	57/63	57	8	6	56	20	粘结钕铁硼 Bonded NdFeB	
5	57ZWX02	4	3	36	5200	4000	3.30	0.22	92	57/63	57	8	6	76	40		
6	57ZWX03	4	3	36	5200	4000	4.80	0.32	134	57/63	57	8	6	96	60		
7	57ZWX04	4	3	36	5200	4000	6.50	0.42	168	57/63	57	8	6	116	80		
8	60ZWX01	4	3	36	5200	4000	1.90	0.11	46	60		8	6	61.5	20	粘结钕铁硼 Bonded NdFeB	
9	60ZWX02	4	3	36	5200	4000	3.30	0.22	92	60		8	6	81.5	40		
10	60ZWX03	4	3	36	5200	4000	4.80	0.32	134	60		8	6	101.5	60		
11	60ZWX04	4	3	36	5200	4000	6.60	0.42	168	60		8	6	121.5	80		
12	62ZWX01	4	3	36	3900	3200	4.50	0.22	74	62		8	6	64	20	烧结钕铁硼 Sintered NdFeB	
13	62ZWX02	4	3	36	3700	3000	7.10	0.40	126	62		8	6	84	40		
14	62ZWX03	4	3	36	3700	3000	12.70	0.65	204	62		8	6	104	60		
15	80ZWX01	4	3	24	3800	3300	8.50	0.40	138	80		12	6	103	30	烧结钕铁硼 Sintered NdFeB	
16	80ZWX02	4	3	24	3650	3200	13.50	0.70	235	80		12	6	123	50		
17	80ZWX03	4	3	24	3500	3100	17.50	1.00	325	80		12	6	143	70		
18	86ZWX01	4	3	48	3500	3000	8.50	1.00	314	86		14	6	87	30	烧结钕铁硼 Sintered NdFeB	
19	86ZWX02	4	3	48	3500	3000	14.80	1.80	565	86		14	6	112	55		
20	86ZWX03	4	3	48	3400	2950	19.50	2.50	772	86		14	6	137	80		
21	110ZWX01	8	3	300	2830	2530	2.00	1.65	420	110		20		83	30	烧结钕铁硼 Sintered NdFeB	
22	110ZWX02	8	3	300	2830	2530	3.50	3.30	840	110		20		113	60		
23	110ZWX03	8	3	300	2770	2370	5.10	5.00	1190	110		20		143	90		
24	110ZWX04	8	3	300	2830	2530	6.70	6.60	1670	110		20		173	120		
25	130ZWX01	8	3	48	1760	1500	9.00	2.00	314		140	22		105	35	烧结钕铁硼 Sintered NdFeB	
26	130ZWX02	8	3	48	1760	1500	17.00	4.00	628		140	22		135	65		
27	130ZWX03	8	3	48	1760	1500	25.00	6.00	942		140	22		165	95		

BYM 直流电机

DC MOTORS



序号	型号	极数	电压	空 载	额 定				Shape		Shaft		length	Core	永磁 permanent magnet	备注 remark
		Poles	Voltage	No Load	Rated				□	○	Da	Db	L1	L2		
		P	V	r/min	r/min	A	N.m	W	mm	mm	mm	mm	mm	mm		
1	42ZYT01	2	24	4000	3480	0.64	0.03	11		42	5	5	80	25	铁氧体 Hard Ferrite	
2	42ZYT02	2	24	4000	3350	1.10	0.05	18		42	5	5	90	35		
3	42ZYT03	2	24	4000	3350	1.40	0.07	25		42	5	5	100	45		
4	52ZYT01	2	24	4000	3400	1.10	0.05	18		52	6		90	20	铁氧体 Hard Ferrite	
5	52ZYT02	2	24	4000	3400	1.92	0.09	32		52	6		105	35		
6	52ZYT03	2	24	4000	3400	2.90	0.14	50		52	6		120	50		
7	54ZYT01	2	24	4000	3200	1.65	0.07	23	54	54	8	4	75	17	铁氧体 Hard Ferrite	
8	54ZYT02	2	24	4000	3300	3.20	0.15	52	54	54	8	4	94	36		
9	54ZYT03	2	24	4000	3300	5.30	0.26	90	54	54	8	4	126	66		
10	54ZYT04	2	24	4000	3300	7.20	0.36	124	54	54	8	4	145	86		
11	62ZYT01	2	24	4000	3600	3.85	0.20	75		62	8		98	35	铁氧体 Hard Ferrite	
12	62ZYT02	2	24	4000	3600	4.80	0.25	94		62	8		108	45		
13	62ZYT03	2	24	4000	3600	6.70	0.35	132		62	8		118	55		
14	76ZYT01	2	24	3200	2680	4.70	0.28	79		76	8		98	30	铁氧体 Hard Ferrite	
15	76ZYT02	2	24	3200	2680	7.60	0.46	129		76	8		118	50		
16	76ZYT03	2	24	3200	2680	11.00	0.65	182		76	8		138	70		
17	80ZYT4-01	4	24	2380	2030	6.50	0.50	106		80	9		108	30	铁氧体 Hard Ferrite	
18	80ZYT4-02	4	24	2460	2100	10.70	0.82	180		80	9		128	50		
19	80ZYT4-03	4	24	2390	2050	14.00	0.65	140		80	9		148	70		
20	110ZYT01	2	48	3900	3000	6.50	0.65	200		110	15		100	20	铁氧体 Hard Ferrite	
21	110ZYT02	2	48	3900	3000	12.50	1.30	400		110	15		120	40		
22	110ZYT03	2	48	3900	3000	18.50	1.95	600		110	15		140	60		
23	110ZYT04	2	48	3900	3000	25.00	2.60	800		110	15		160	80		
24	120ZYG01	4	48	3400	3000	13.80	1.50	480		120	17		224	20	烧结钕铁硼 Sintered NdFeB	
25	120ZYG02	4	48	3400	3000	26.50	3.00	970		120	17		244	40		
26	120ZYG03	4	48	3160	2780	36.20	4.50	1300		120	17		264	60		
27	120ZYG04	4	48	3160	2780	48.20	6.00	1750		120	17		284	80		

机座 Diameter 42 mm

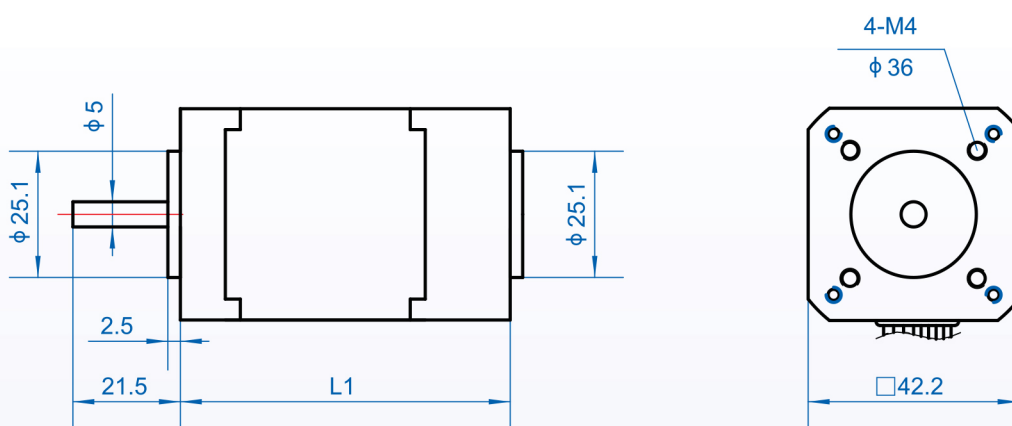
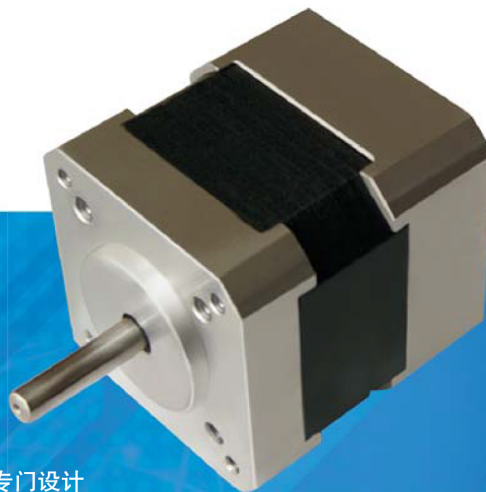
1、使用环境: -10—40℃
Environmental conditions:-10—40℃

2、极数/相数: 8/3
Number of Poles /phase: 8/3

3、磁钢材料: 粘结钕铁硼
Magnet material:Bonded NdFeB

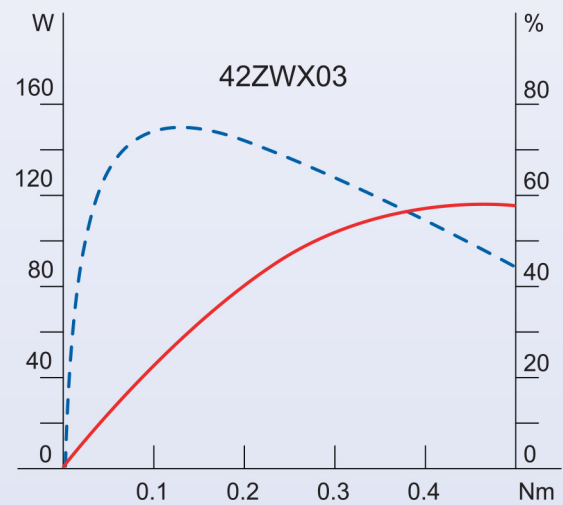
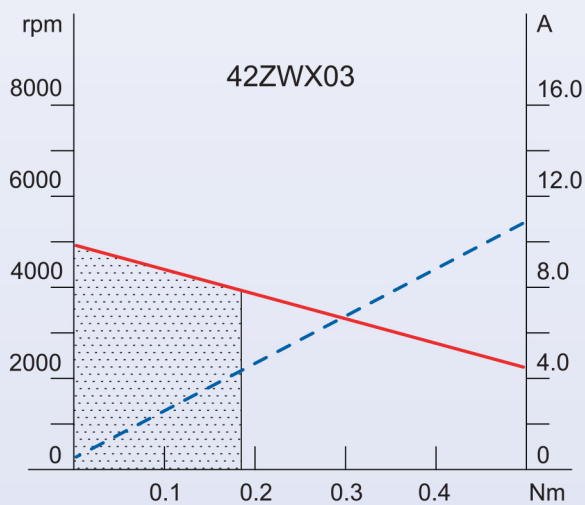
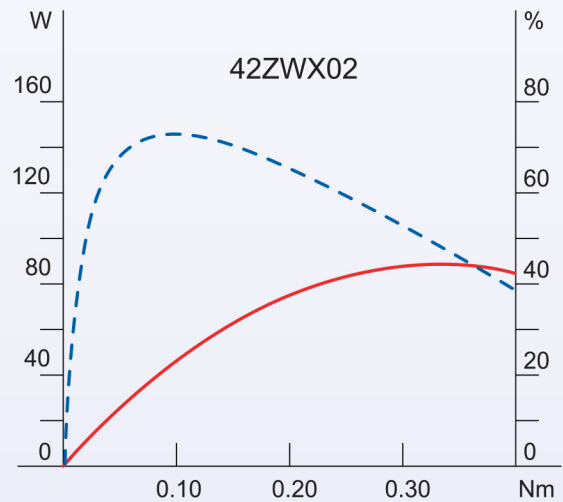
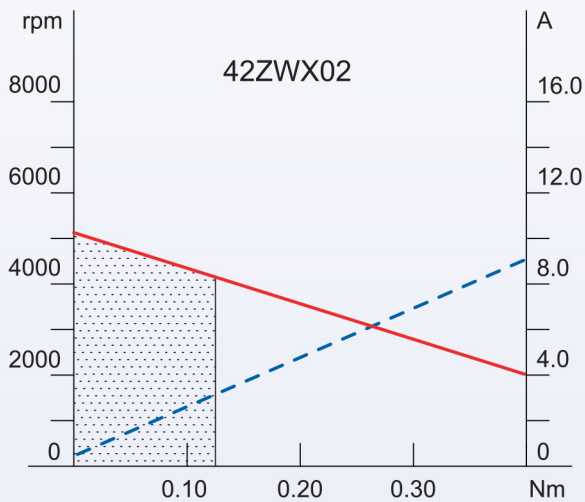
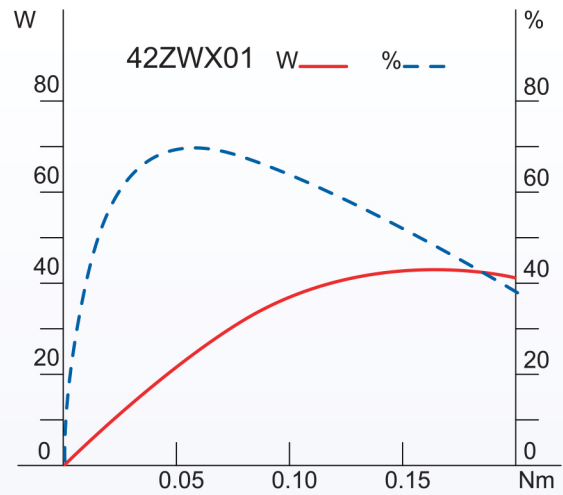
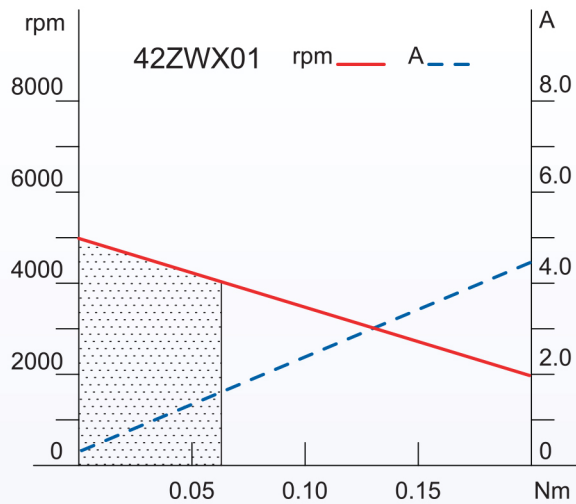
4、绝缘等级: B
Insulation Class:B

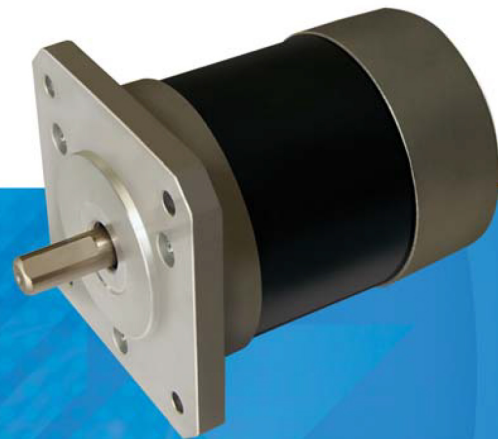
5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



型号 Model		42ZWX01	42ZWX02	42ZWX03
电压 Voltage	V	24		
空载转速 No load speed	rpm	5000	5000	5000
额定转矩 Rated torque	Nm	0.063	0.125	0.185
额定转速 Rated speed	rpm	4000	4000	4000
额定电流 Rated current	A	1.65	3.40	4.50
最大转矩 Torque (max)	Nm	0.189	0.375	0.500
最大转矩时的电流 At Torque (max) Current	A	4.4	9.0	11.5
惯量 Rotor inertia	Kgmm ²	5.2	9.3	13.4
反电势 Back-EMF constant	V/krpm	3.17	3.13	3.28
转矩常数 Torque Constant	Nm/A	0.045	0.044	0.047
电阻 Resistance(20℃)	ohm	1.42	0.73	0.39
重量 Weight	Kg	0.29	0.47	0.65
长度 L1	mm	40.5	60.5	80.5
铁芯长度 Rotor: La	mm	20	40	60

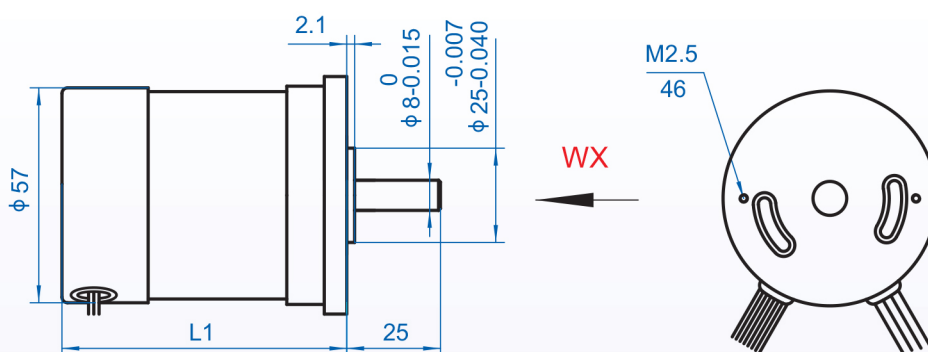
机座 Diameter 42 mm | 无刷电机 BL MOTORS





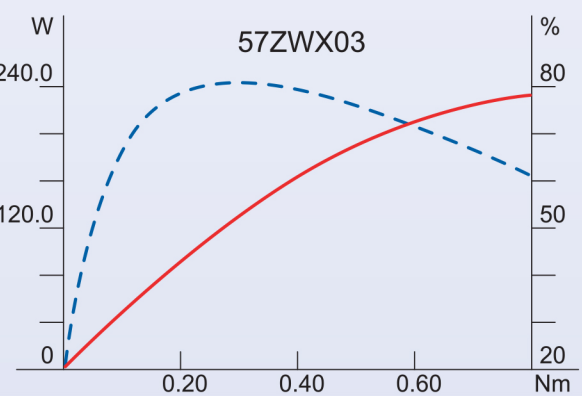
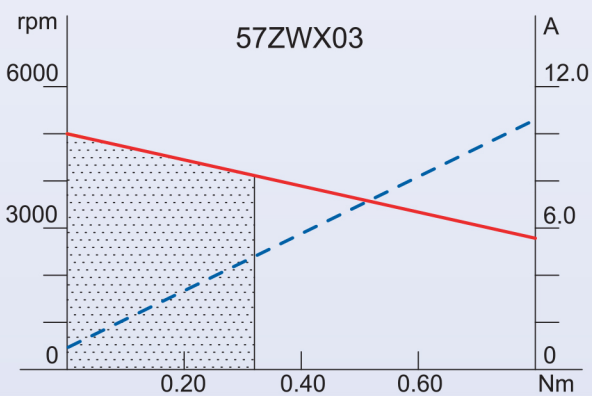
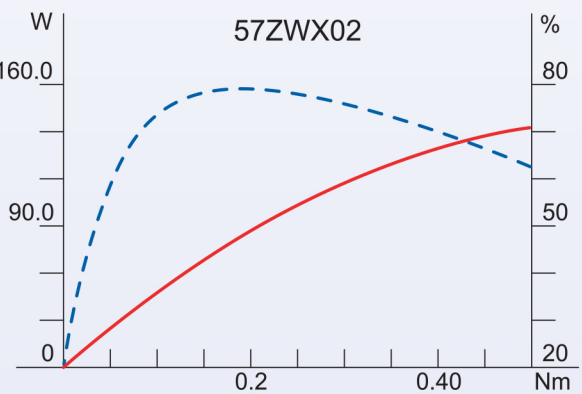
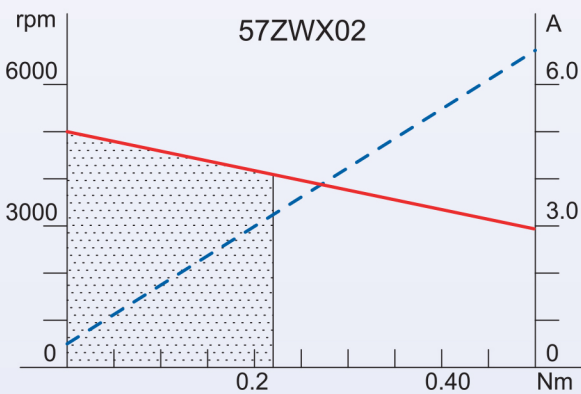
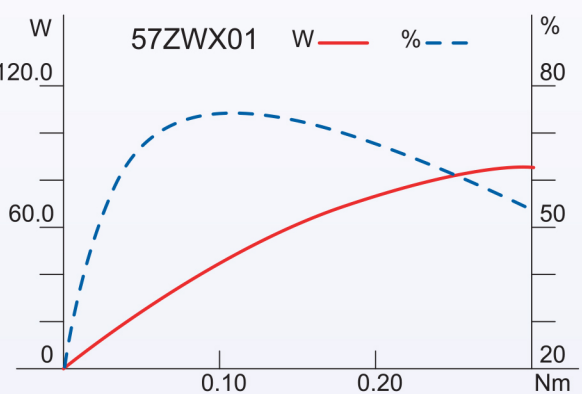
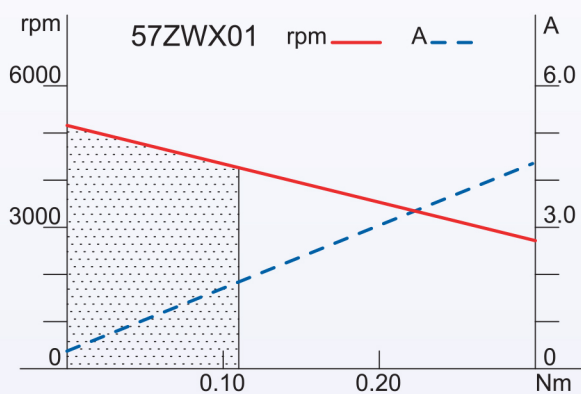
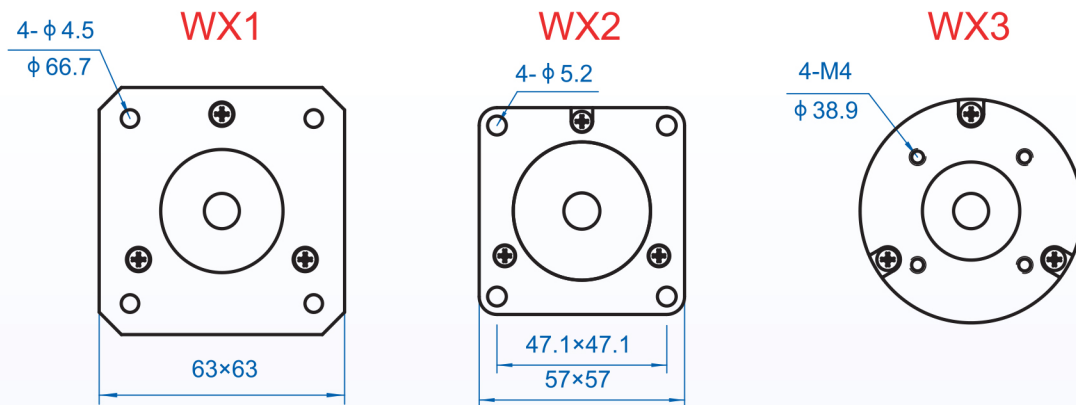
机座 Diameter 57 mm

- | | |
|---|---|
| 1、使用环境: -10—40℃
Environmental conditions:-10—40℃ | 4、绝缘等级: B
Insulation Class:B |
| 2、极数/相数: 4/3
Number of Poles /phase: 4/3 | 5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on. |
| 3、磁钢材料: 粘结钕铁硼
Magnet material:Bonded NdFeB | |



型号 Model		57ZX01	57ZX02	57ZX03
电压 Voltage	V	36		
空载转速 No load speed	rpm	5200	5200	5200
额定转矩 Rated torque	Nm	0.11	0.22	0.32
额定转速 Rated speed	rpm	4000	4000	4000
额定电流 Rated current	A	1.9	3.3	4.8
最大转矩 Torque (max)	Nm	0.30	0.55	0.80
最大转矩时的电流 At Torque (max) Current	A	4.5	7.4	9.5
惯量 Rotor inertia	Kgmm²	7.5	11.9	17.3
反电势 Back-EMF constant	V/krpm	4.5	4.82	4.87
转矩常数 Torque Constant	Nm/A	0.0735	0.0787	0.080
电阻 Resistance(20℃)	ohm	1.65	0.70	0.48
重量 Weight	Kg	0.50	0.75	1.00
长度 L1	mm	56	76	96
铁芯长度 Rotor: La	mm	20	40	60

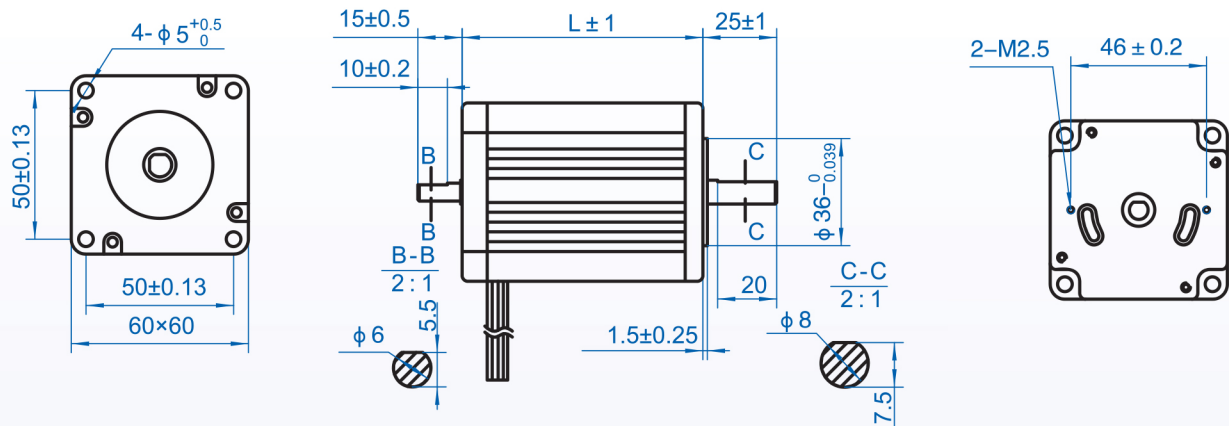
机座 Diameter 57 mm | 无刷电机 BL MOTORS





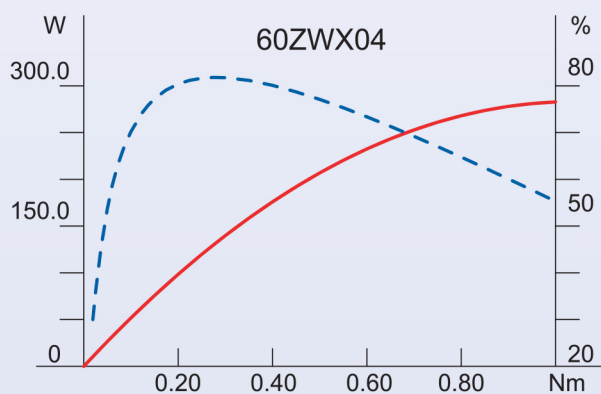
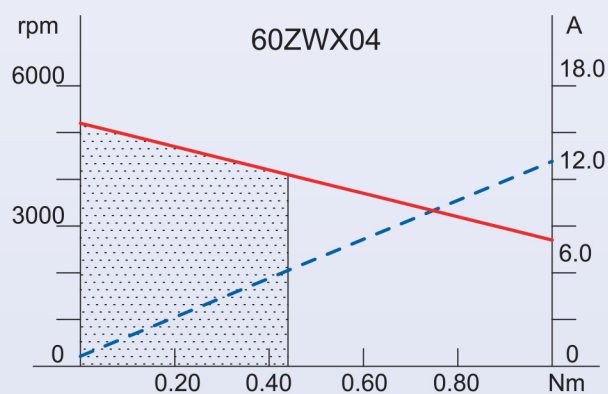
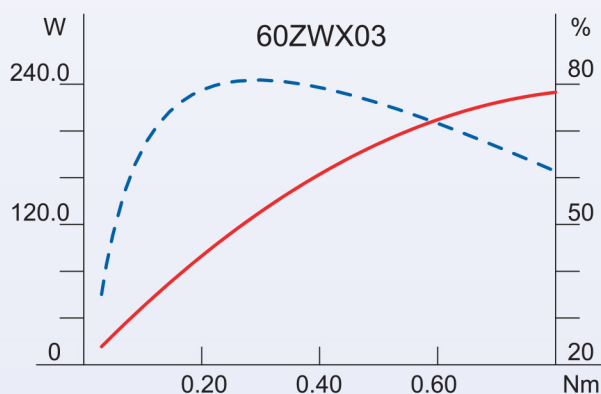
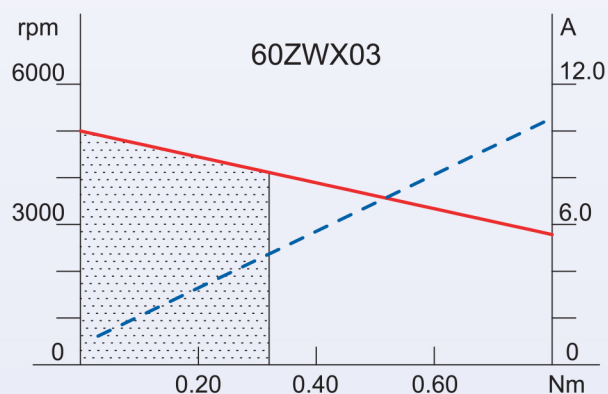
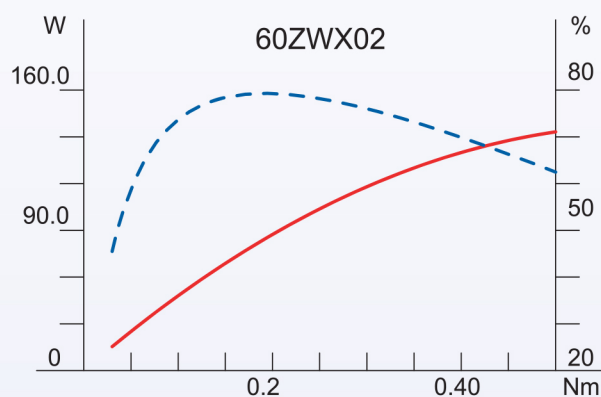
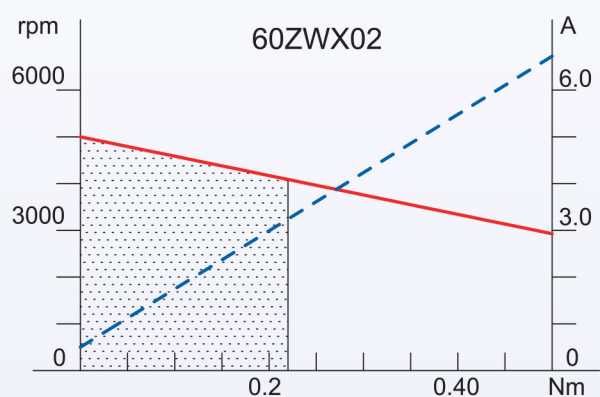
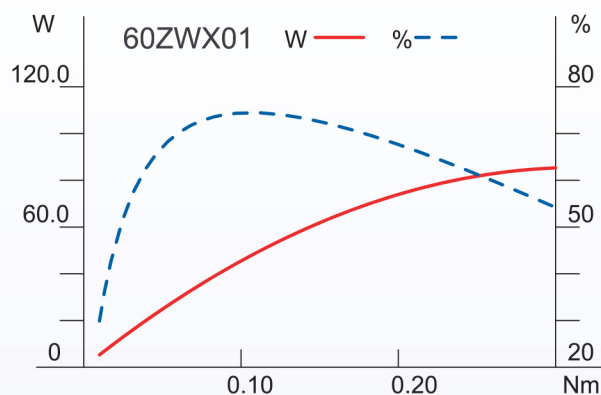
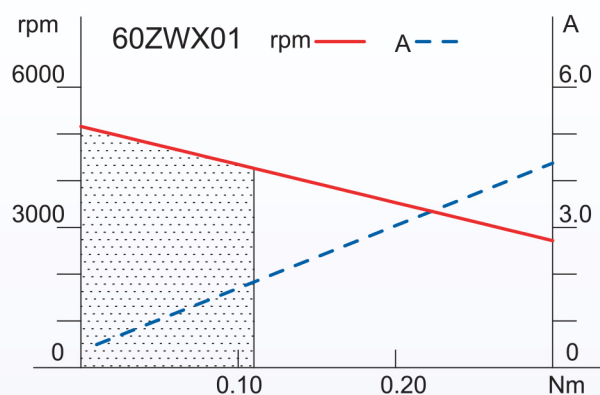
机座 Diameter 60 mm

- 1、使用环境：-10—40℃
Environmental conditions:-10—40℃
- 2、极数/相数：4/3
Number of Poles /phase: 4/3
- 3、磁钢材料：粘结钕铁硼
Magnet material:Bonded NdFeB
- 4、绝缘等级：B
Insulation Class:B
- 5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



型号 Model		60ZWX01	60ZWX02	60ZWX03	60ZWX04
电压 Voltage	V	36			
空载转速 No load speed	rpm	5200	5200	5200	5200
额定转矩 Rated torque	Nm	0.11	0.22	0.32	0.44
额定转速 Rated speed	rpm	4000	4000	4000	4000
额定电流 Rated current	A	1.9	3.3	4.8	6.6
最大转矩 Torque(max)	Nm	0.30	0.55	0.80	1.05
最大转矩时的电流At Torque(max) Current	A	4.5	7.4	9.5	14.2
惯量 Rotor inertia	Kgmm ²	7.5	11.9	17.3	21.0
反电势 Back-EMF constant	V/krpm	4.5	4.82	4.87	4.87
转矩常数 Torque Constant	Nm/A	0.0735	0.0787	0.080	0.080
电阻 Resistance(20℃)	ohm	1.65	0.70	0.48	0.35
重量 Weight	Kg	0.50	0.75	1.00	1.00
长度 L1	mm	61.5	81.5	101.5	121.5
铁芯长度Rotor: La	mm	20	40	60	80

机座 Diameter 60 mm | 无刷电机 BL MOTORS



机座 Diameter 62 mm

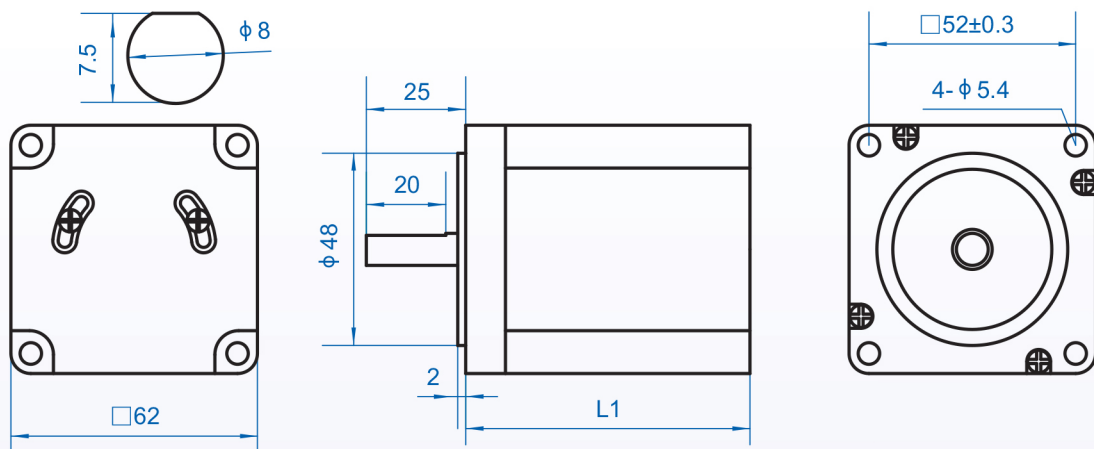
1、使用环境：-10—40℃
Environmental conditions:-10—40℃

2、极数/相数：4/3
Number of Poles /phase: 4/3

3、磁钢材料：烧结钕铁硼
Magnet material:Sintered NdFeB

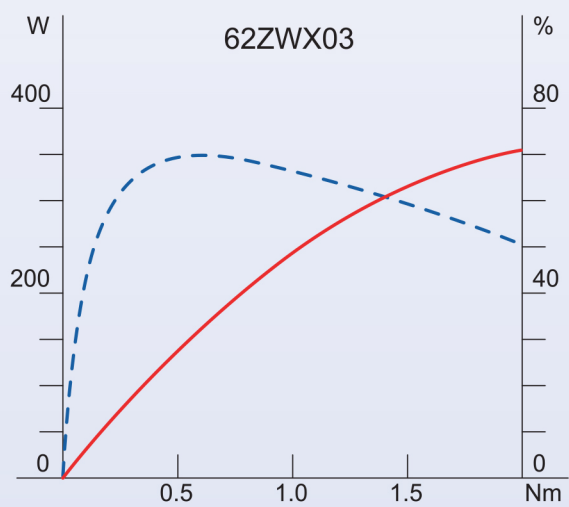
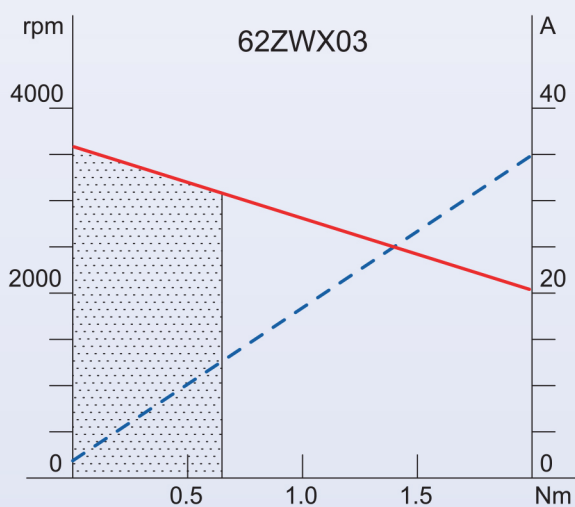
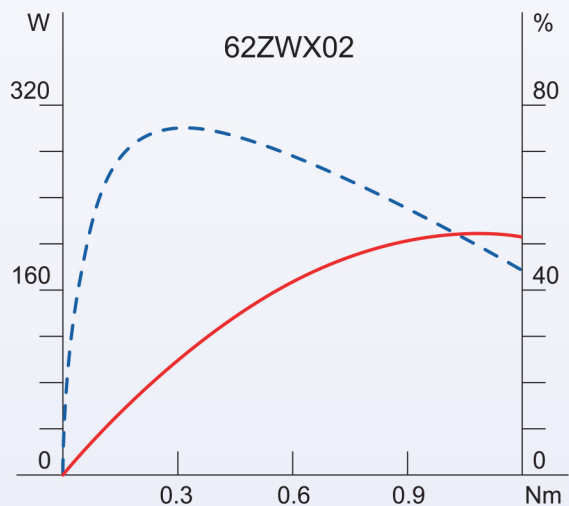
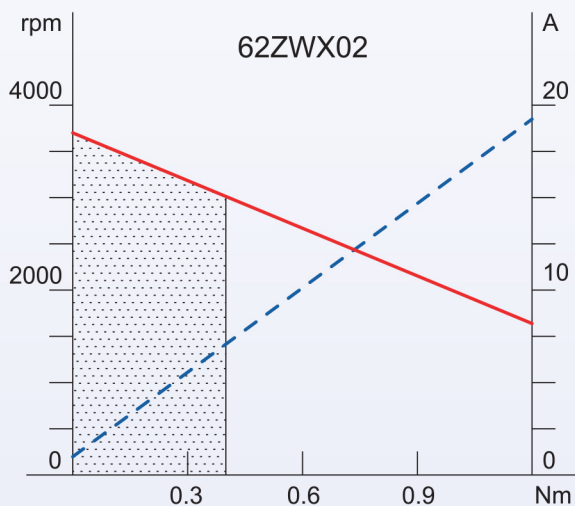
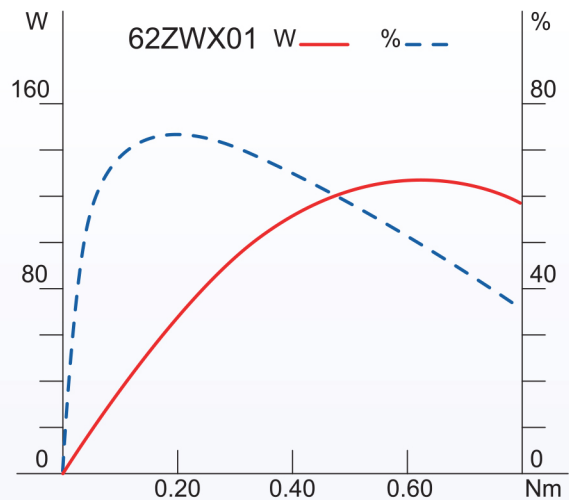
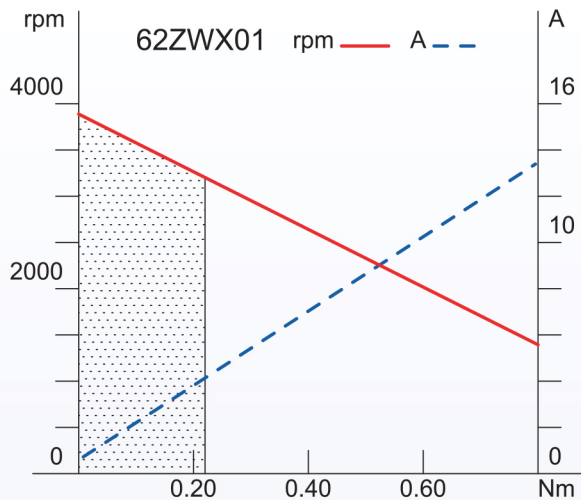
4、绝缘等级：B
Insulation Class:B

5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



型号 Model		62ZWX01	62ZWX02	62ZWX03
电压 Voltage	V	36		
空载转速 No load speed	rpm	3900	3700	3700
额定转矩 Rated torque	Nm	0.22	0.40	0.65
额定转速 Rated speed	rpm	3200	3000	3000
额定电流 Rated current	A	4.5	7.1	12.7
最大转矩 Torque (max)	Nm	0.66	1.1	1.80
最大转矩时的电流 At Torque (max) Current	A	11.5	17.8	32.0
惯量 Rotor inertia	Kgmm ²	19.0	37.5	55.8
反电势 Back-EMF constant	V/krpm	4.30	4.60	4.53
转矩常数 Torque Constant	Nm/A	0.062	0.065	0.061
电阻 Resistance(20℃)	ohm	0.57	0.24	0.13
重量 Weight	Kg	0.9	1.3	1.8
长度 L1	mm	64	84	104
铁芯长度 Rotor: La	mm	20	40	60

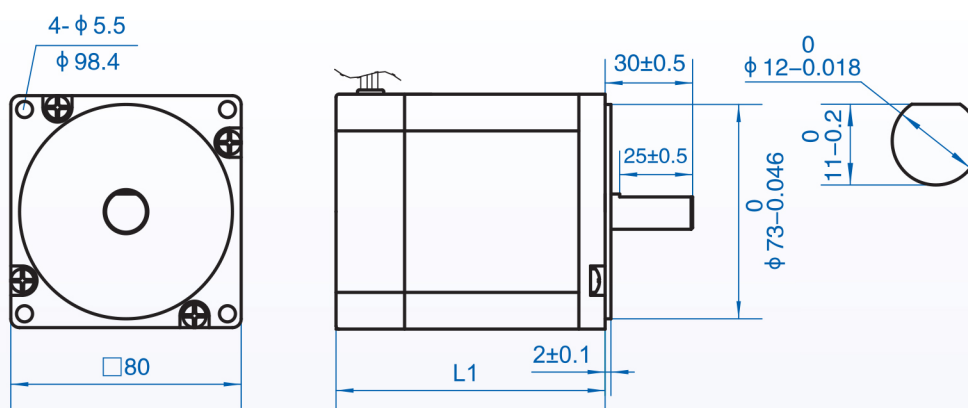
机座 Diameter 62 mm | 无刷电机 BL MOTORS





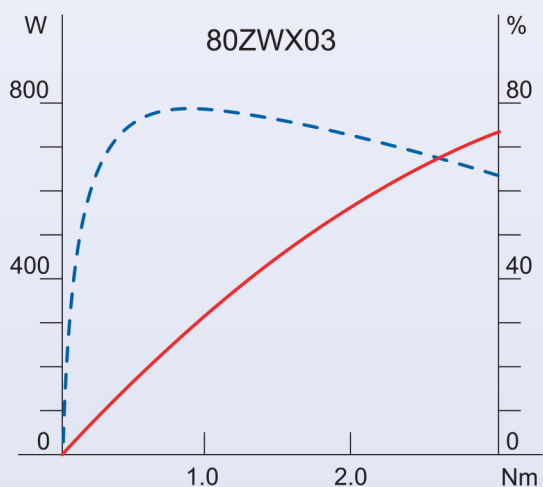
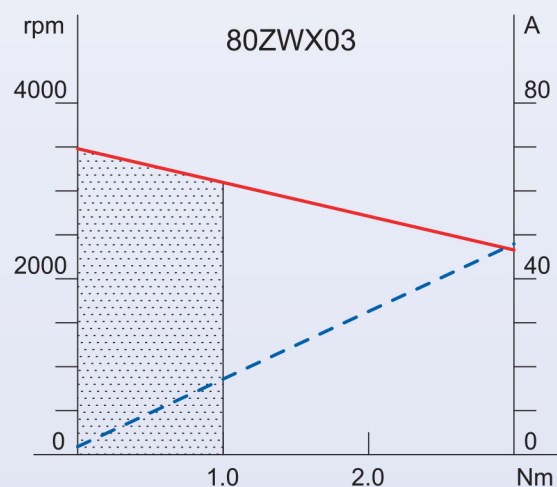
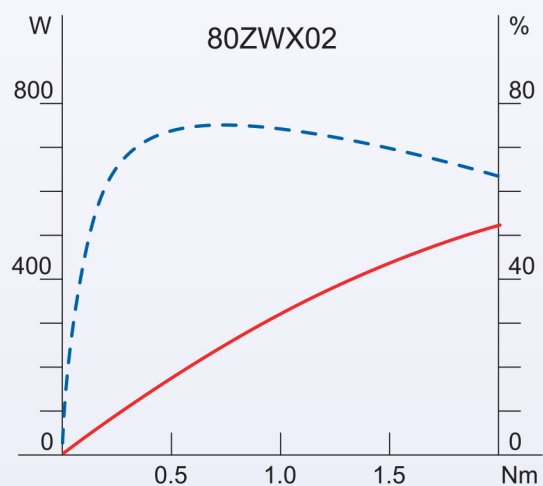
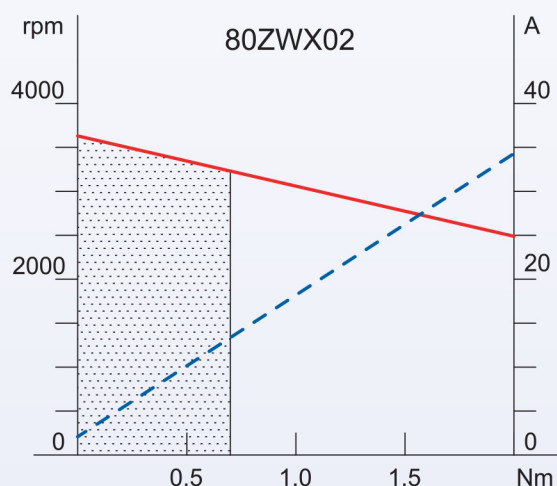
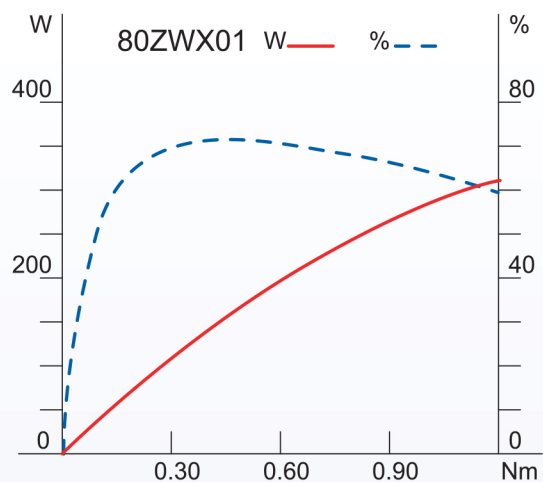
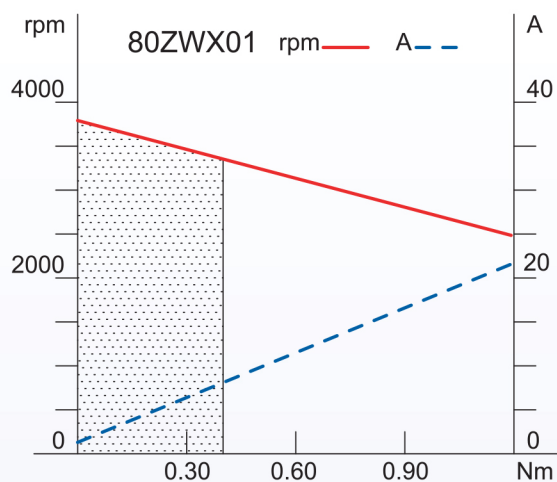
机座 Diameter 80 mm

- | | |
|---|---|
| 1、使用环境: -10—40℃
Environmental conditions:-10—40℃ | 4、绝缘等级: B
Insulation Class:B |
| 2、极数/相数: 4/3
Number of Poles /phase: 4/3 | 5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on. |
| 3、磁钢材料: 烧结钕铁硼
Magnet material:Sintered NdFeB | |



型号 Model		80ZWX01	80ZWX02	80ZWX03
电压 Voltage	V	24		
空载转速 No load speed	rpm	3800	3650	3500
额定转矩 Rated torque	Nm	0.40	0.70	1.0
额定转速 Rated speed	rpm	3300	3200	3100
额定电流 Rated current	A	8.5	13.5	17.5
堵载转矩 Stall torque	Nm	1.2	2.1	3.0
堵载电流 Stall current	A	22	36	49
惯量 Rotor inertia	Kgmm ²	78	110	140
反电势 Back-EMF constant	V/krpm	4.24	4.46	4.67
转矩常数 Torque Constant	Nm/A	0.059	0.062	0.065
电阻 Resistance(20℃)	ohm	0.40	0.23	0.17
重量 Weight	Kg	2.0	2.8	3.6
长度 L1	mm	103	123	143
铁芯长度 Rotor: La	mm	30	50	70

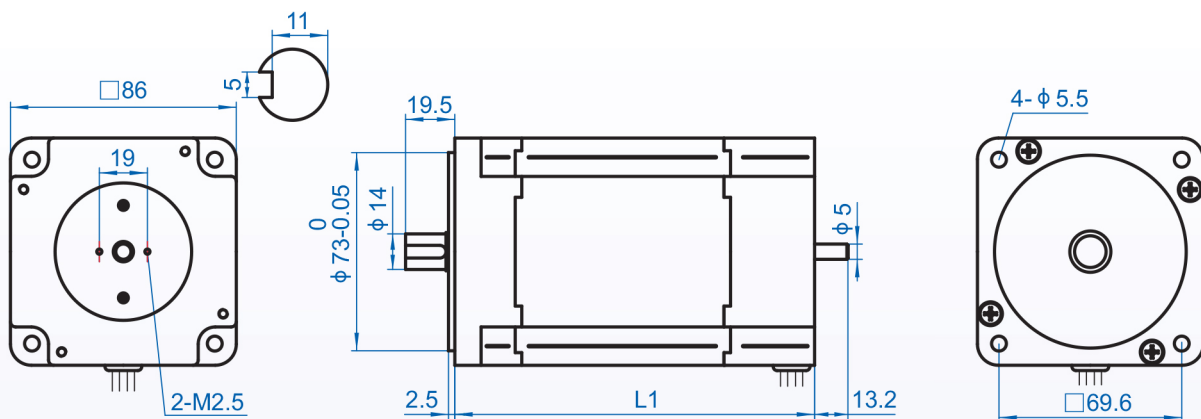
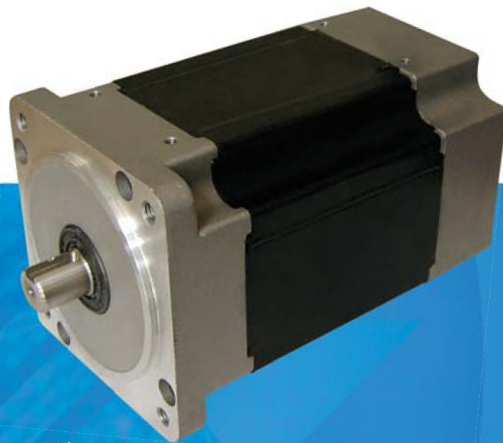
机座 Diameter 80 mm | 无刷电机 BL MOTORS



机座 Diameter 86 mm

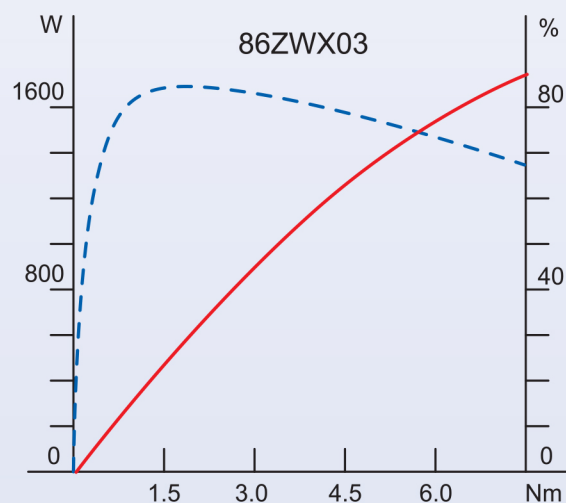
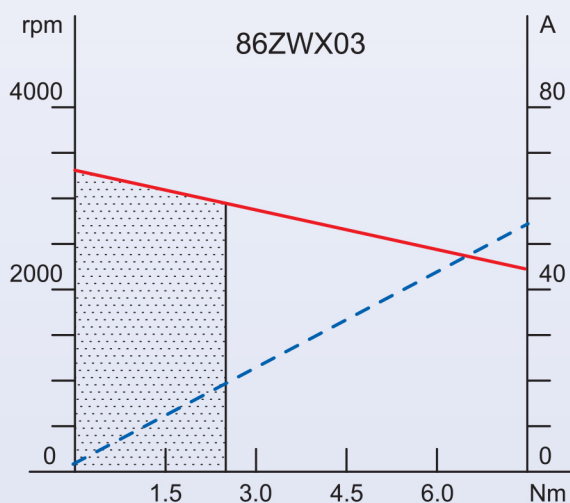
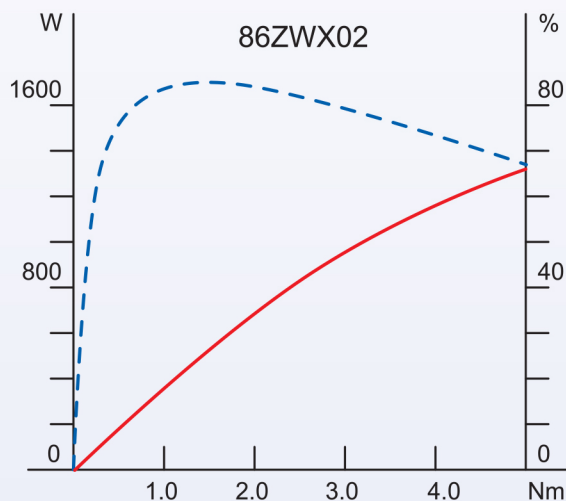
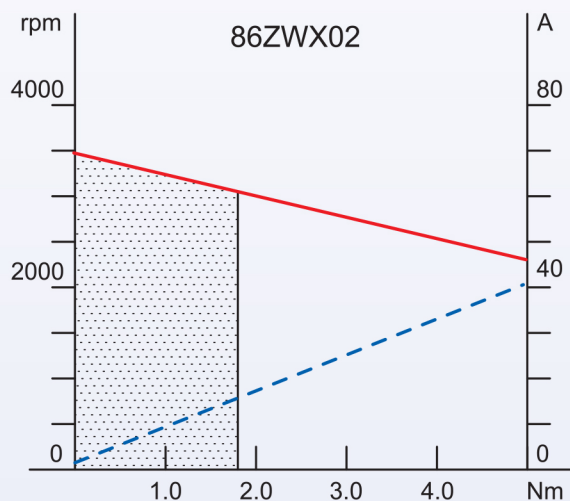
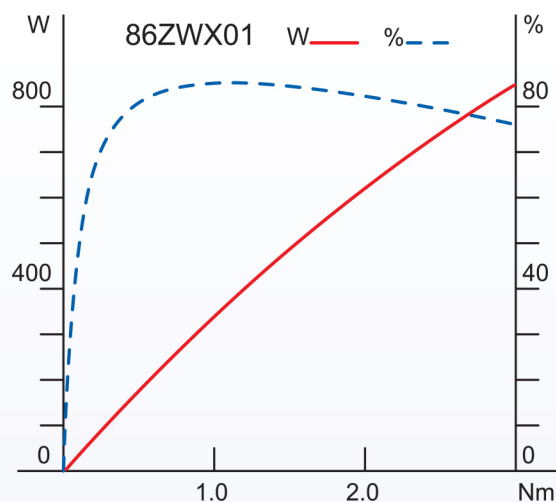
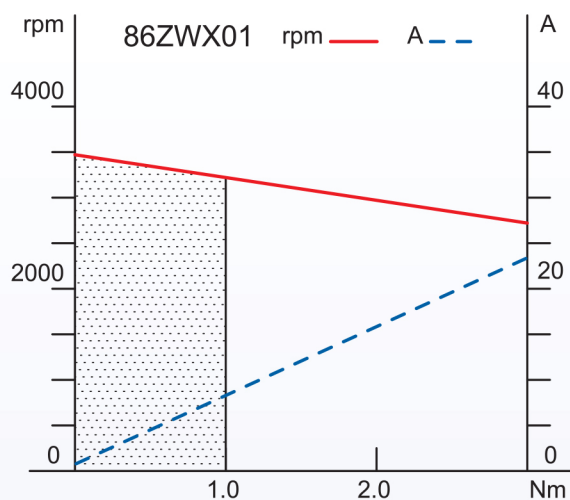
- 1、使用环境：-10—40℃
Environmental conditions:-10—40℃
- 2、极数/相数：4/3
Number of Poles /phase: 4/3
- 3、磁钢材料：烧结钕铁硼
Magnet material:Sintered NdFeB

- 4、绝缘等级：B
Insulation Class:B
- 5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



型号 Model		86ZWX01	86ZWX02	86ZWX03
电压 Voltage	V	48		
空载转速 No load speed	rpm	3500	3500	3400
额定转矩 Rated torque	Nm	1.0	1.8	2.5
额定转速 Rated speed	rpm	3000	3000	2950
额定电流 Rated current	A	8.5	14.8	19.5
最大转矩 Torque (max)	Nm	3.0	5.4	7.5
最大转矩时的电流 At Torque (max) Current	A	25	42	55
惯量 Rotor inertia	Kgmm ²	120	230	320
反电势 Back-EMF constant	V/krpm	9.8	9.8	10.2
转矩常数 Torque Constant	Nm/A	0.133	0.133	0.138
电阻 Resistance(20℃)	ohm	0.32	0.15	0.10
重量 Weight	Kg	2.3	3.4	4.3
长度 L1	mm	87	112	137
铁芯长度 Rotor: La	mm	30	55	80

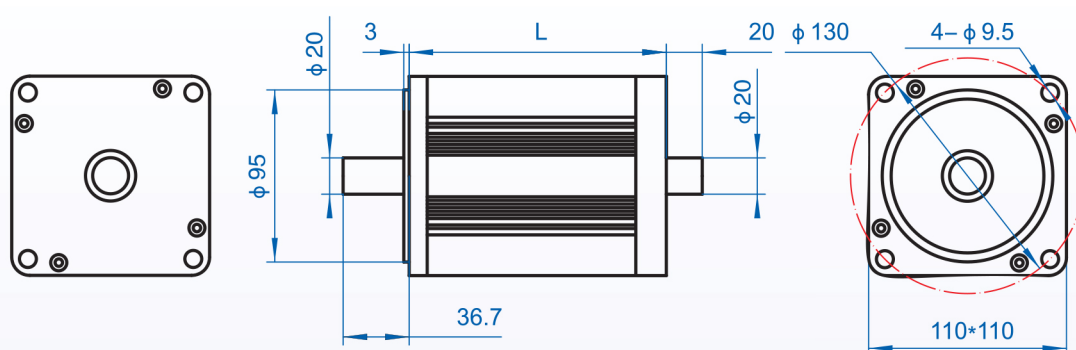
机座 Diameter 86 mm | 无刷电机 BL MOTORS





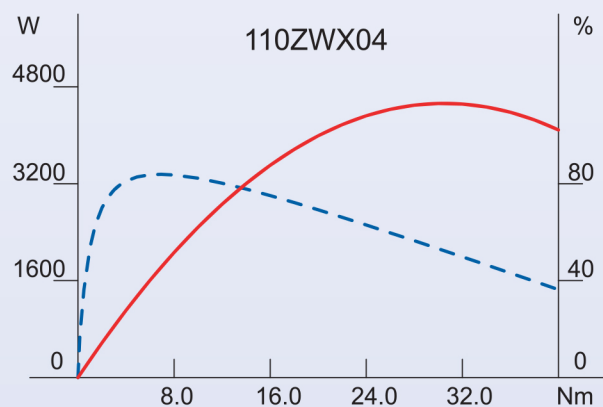
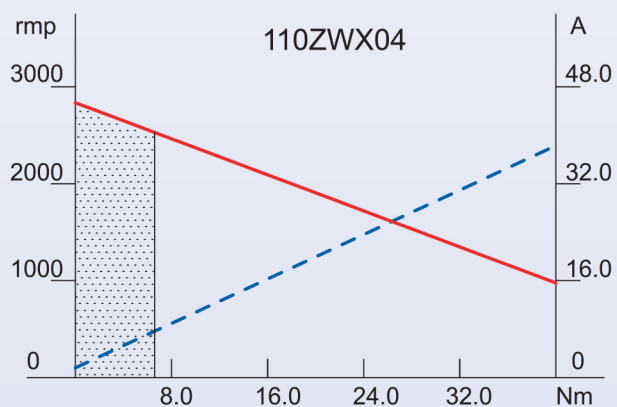
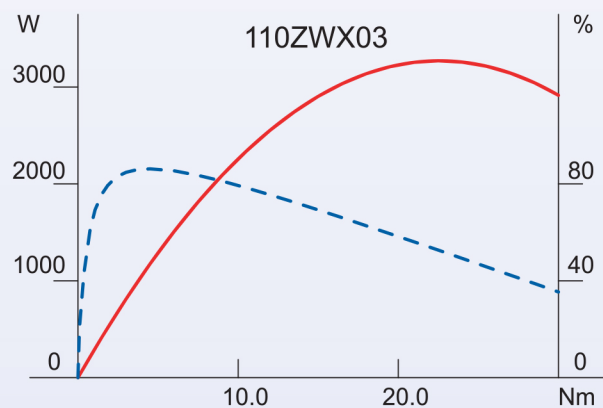
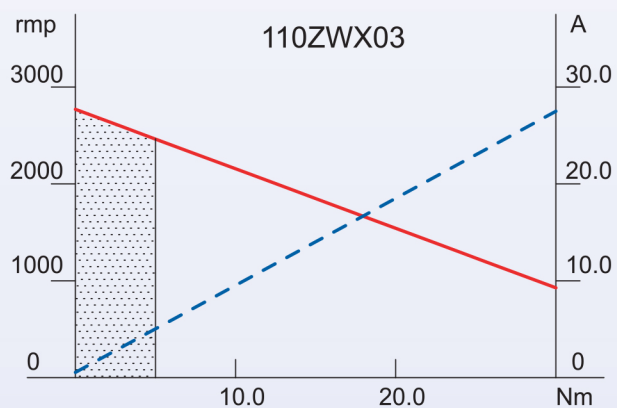
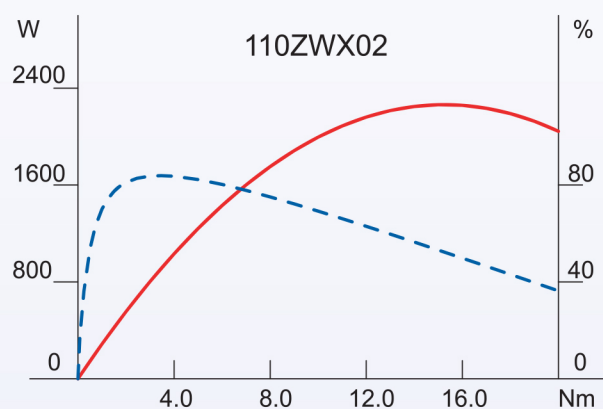
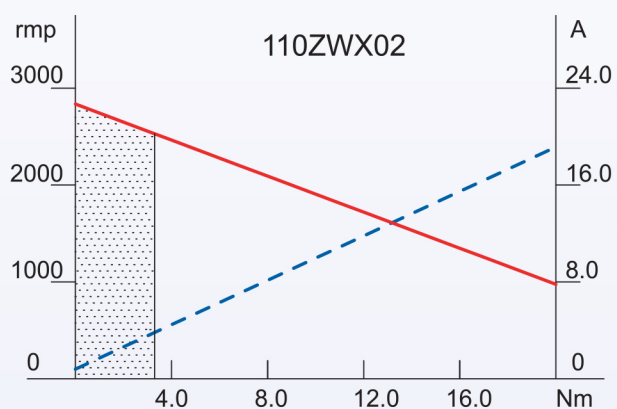
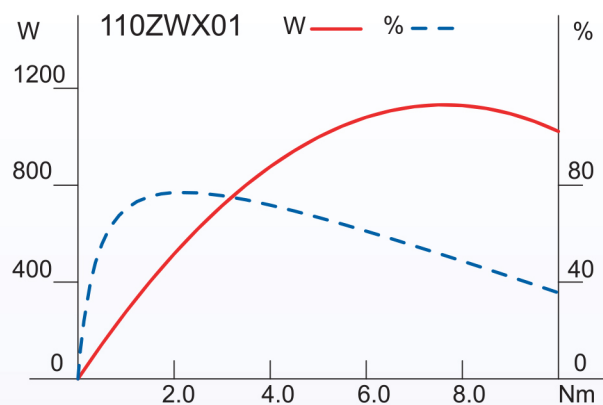
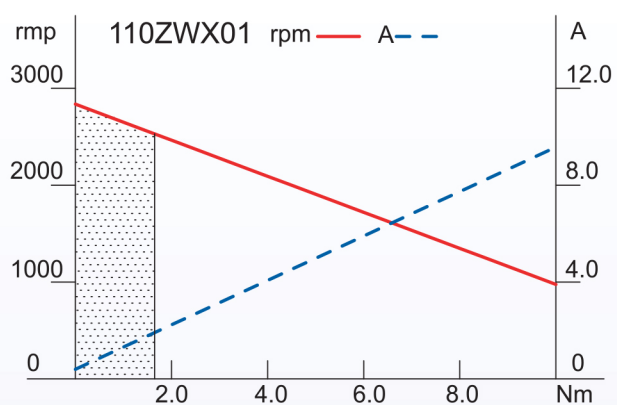
机座 Diameter 110 mm

- 1、使用环境: $-10\text{---}+40^{\circ}\text{C}$
Environmental conditions: $-10\text{---}+40^{\circ}\text{C}$
- 2、极数/相数: 8/3
Number of Poles /phase: 8/3
- 3、磁钢材料: 烧结钕铁硼
Magnet material: Sintered NdFeB
- 4、绝缘等级: B
Insulation Class: B
- 5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



型号 Model		110ZWX01	110ZWX02	110ZWX03	110ZWX04
电压 Voltage	V	300			
空载转速 No load speed	rpm	2830	2830	2770	2830
空载电流 No load current	A	0.40	0.45	0.50	0.55
额定转矩 Rated torque	Nm	1.65	3.30	5.00	6.60
额定转速 Rated speed	rpm	2530	2530	2370	2530
额定电流 Rated current	A	2.0	3.5	5.1	6.7
最大转矩 Torque(max)	Nm	6.0	12.0	18.0	23.0
最大转矩时的电流 At Torque(max) Current	A	6	12	17	22
转矩常数 Torque Constant	Nm/A	1.09	1.09	1.11	1.09
电阻 Resistance(20°C)	ohm	5.00	2.46	1.70	1.30
长度 L1	mm	83	113	143	173
铁芯长度 Rotor: La	mm	30	60	90	120

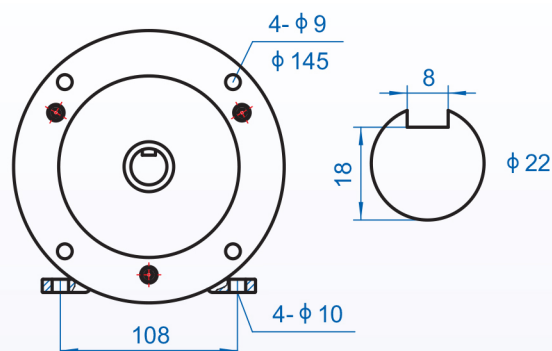
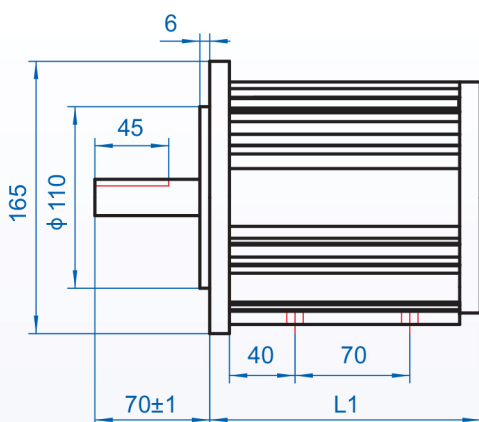
机座 Diameter 110 mm | 无刷电机 BL MOTORS



机座 Diameter 130 mm

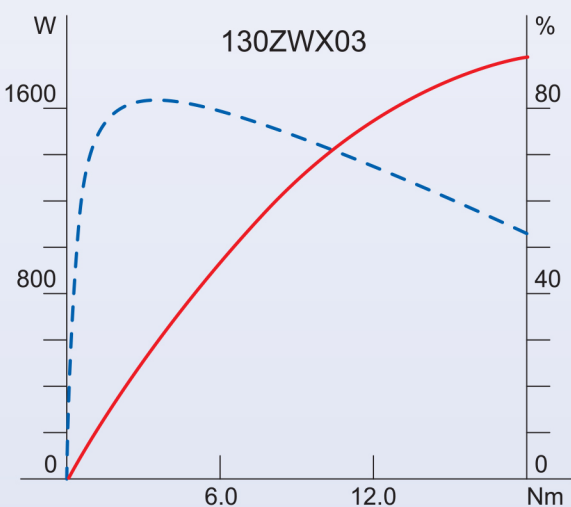
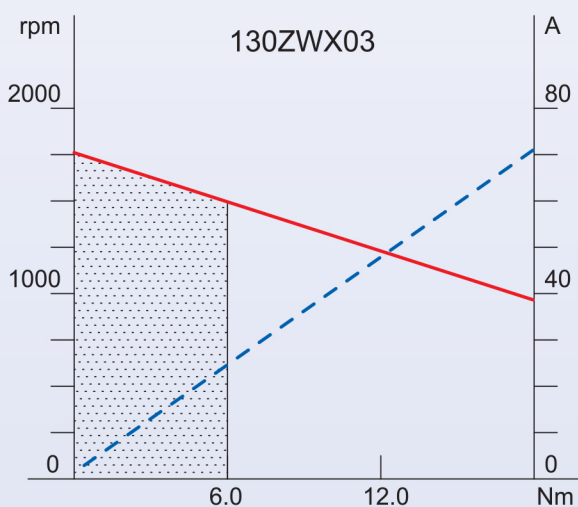
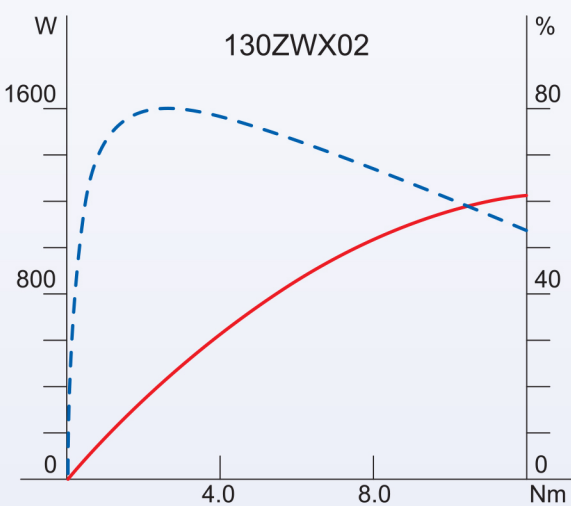
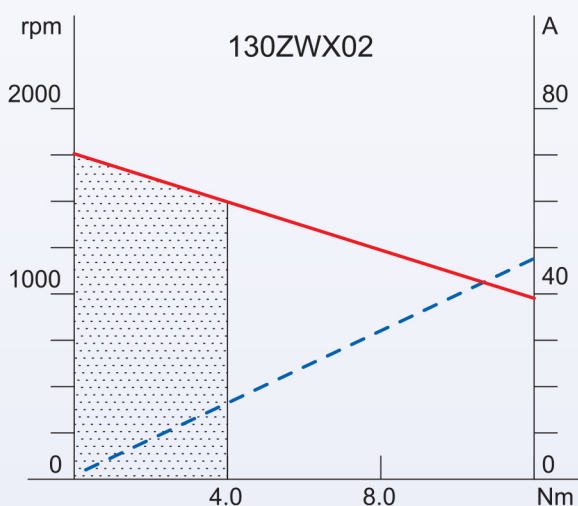
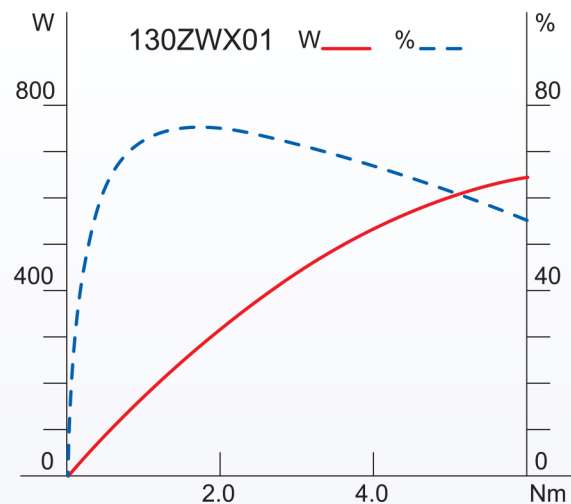
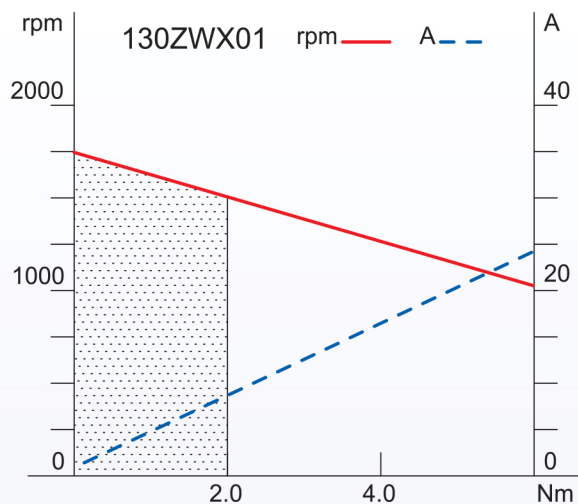
- 1、使用环境：-10—40℃
Environmental conditions:-10—40℃
- 2、极数/相数：8/3
Number of Poles /phase: 8/3
- 3、磁钢材料：烧结钕铁硼
Magnet material:Sintered NdFeB

- 4、绝缘等级：B
Insulation Class:B
- 5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



型号 Model		130ZX01	130ZX02	130ZX03
电压 Voltage	V	48		
空载转速 No load speed	rpm	1760	1760	1760
额定转矩 Rated torque	Nm	2.0	4.0	6.0
额定转速 Rated speed	rpm	1500	1500	1500
额定电流 Rated current	A	9.0	17.0	25.0
最大转矩 Torque (max)	Nm	6.0	12.0	18.0
最大转矩时的电流 At Torque (max) Current	A	25	48	72
惯量 Rotor inertia	Kgmm ²	580	1000	1360
反电势 Back-EMF constant	V/krpm	19	19	19
转矩常数 Torque Constant	Nm/A	0.259	0.259	0.259
电阻 Resistance(20℃)	ohm	0.84	0.46	0.31
重量 Weight	Kg	5.2	7.6	10.0
长度 L1	mm	105	135	165
铁芯长度 Rotor: La	mm	30	55	95

机座 Diameter 130 mm | 无刷电机 BL MOTORS



BYM 低噪音直流电机

Low Noise DC MOTORS

60ZYT003-U

低噪音推杆电机 Low Noise Linear actuator DC MOTORS

1、使用环境: $-10-40^{\circ}\text{C}$
Environmental conditions: $-10-40^{\circ}\text{C}$

2、极数: 2
Number of Poles: 2

3、磁钢材料: 铁氧体
Magnet material: Hard Ferrit

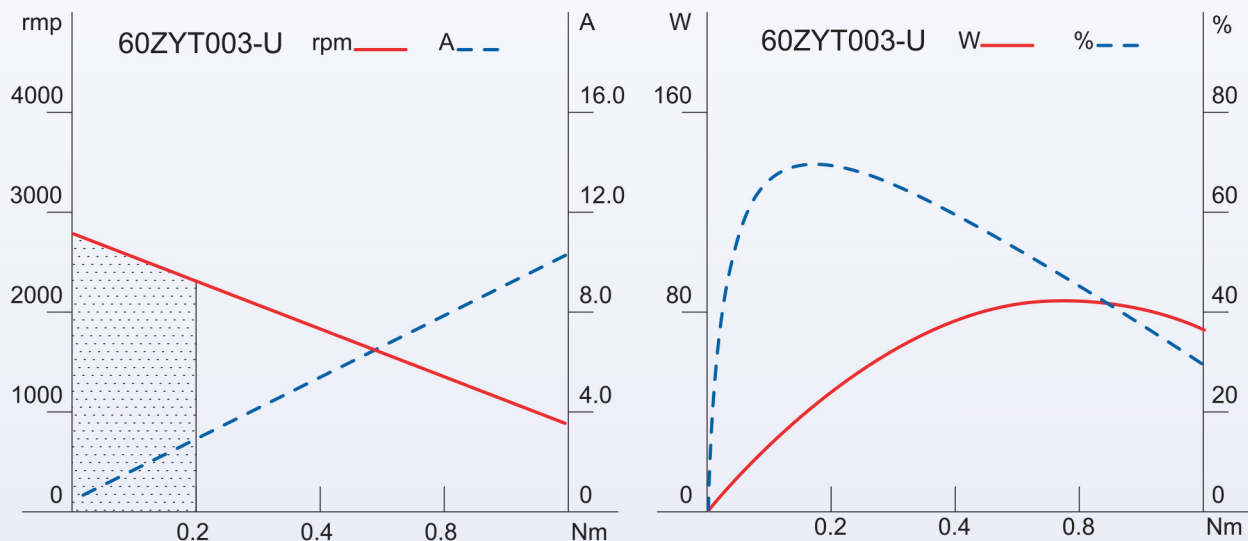
4、绝缘等级: B
Insulation Class: B

5、可以提供电压、转速等专门设计
We can design the special voltage and speed, and so on.

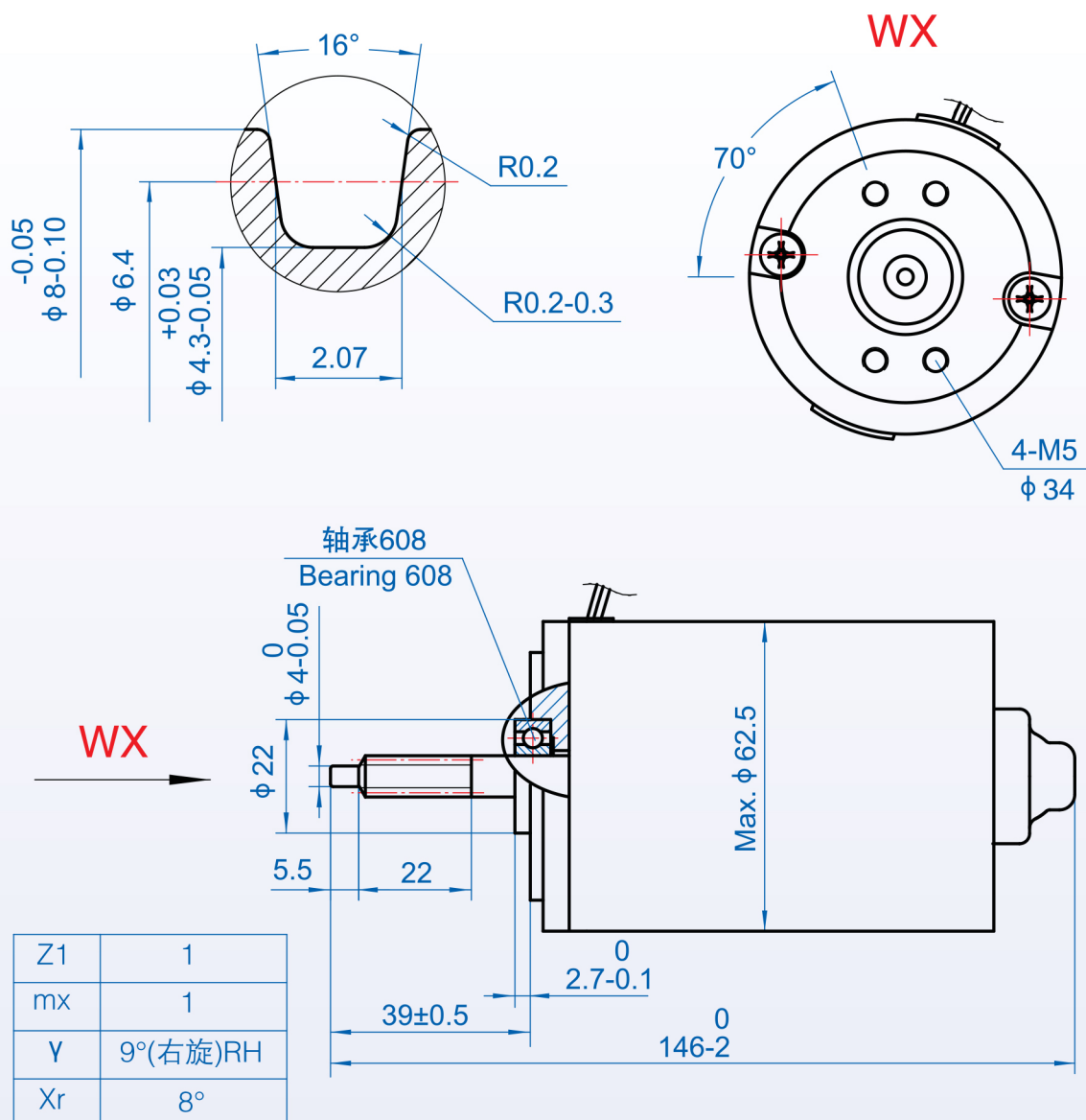


60ZYT003-U电机是一款用于电动推杆永磁直流电机，具有结构紧凑，输出力矩大，线性调速方便，运转平稳，低噪音长寿命等优点，可用于各类电动病床、手术床、护理床、牵引床及电动椅厂家和机械工业行业领域作直线驱动元件。

60ZYT003-U is a permanent magnet DC motor used in linear actuator. The motor has the advantage such as the structure is compact, the torque is large, the speed can easily be adjusted, run steadily, low noise. etc. The motor can be used as drive parts in power hospital bed, operating bed, nursing bed, hauling bed, electric chair and machinery industry.



60ZYT003-U | 低噪音直流电机 Low Noise DC MOTORS



性能 Specification	空载 No load	负载 On load	负载 On load	Stall load
电压 Voltage (V)	24.0	24.0	24.0	12.0
转矩 Torque (N.m)	——	0.2	0.4	Min 0.45
转速 Speed (rpm)	2800 ± 225	2300 ± 185	1830 ± 150	——
电流 Current (A)	Max 0.40	Max 3.2	Max 5.8	Max 9.0

机座 Diameter 42 mm

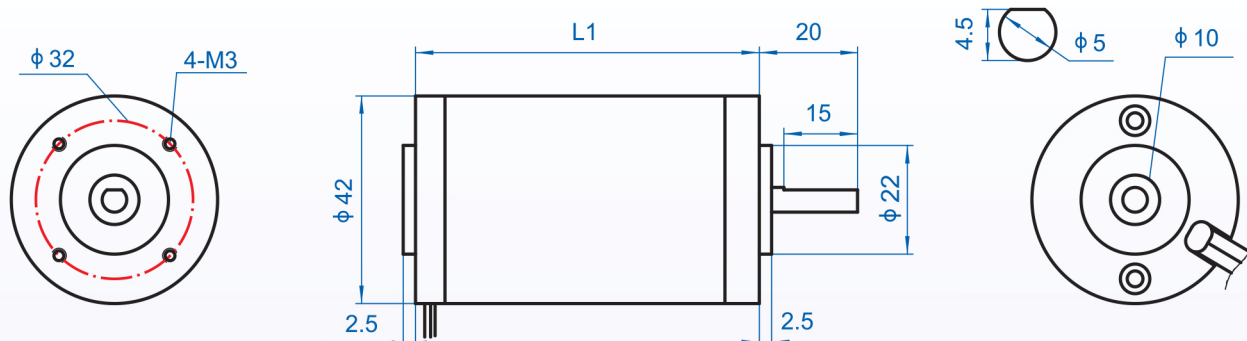
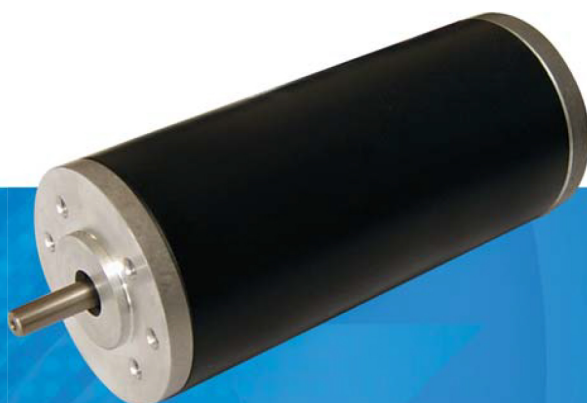
1、使用环境：-10—40℃
Environmental conditions:-10—40℃

2、极数：2
Number of Poles:2

3、磁钢材料：铁氧体
Magnet material:Hard Ferrit

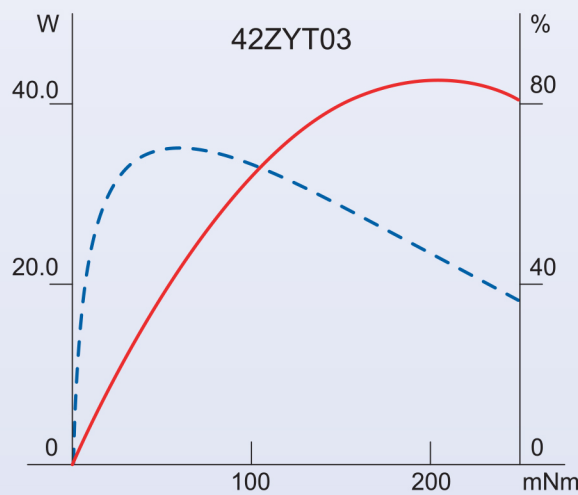
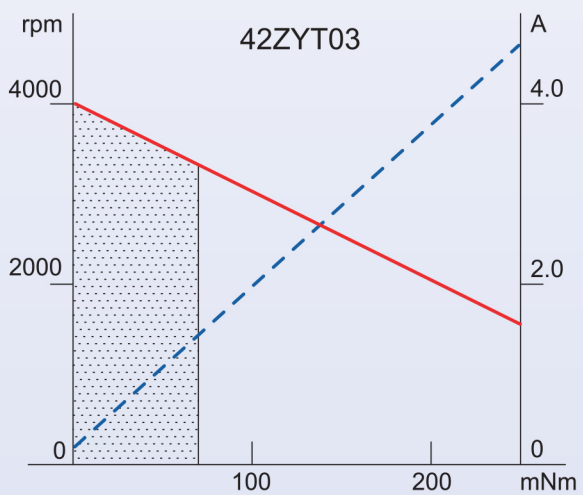
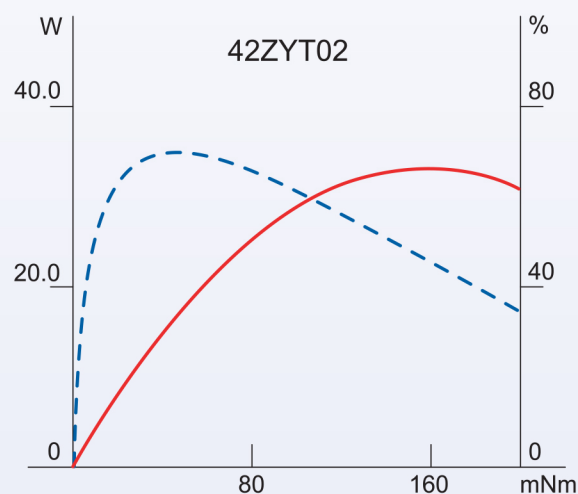
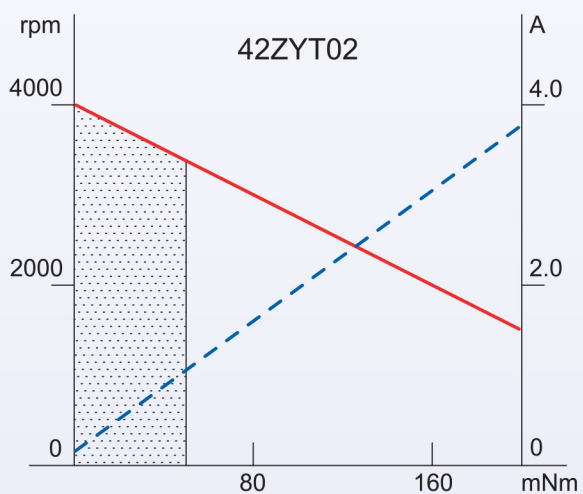
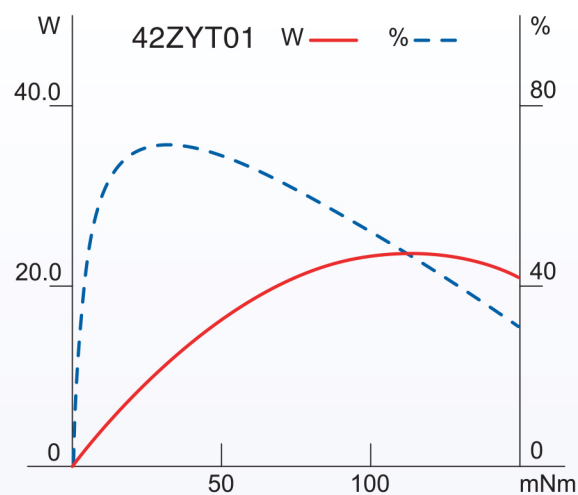
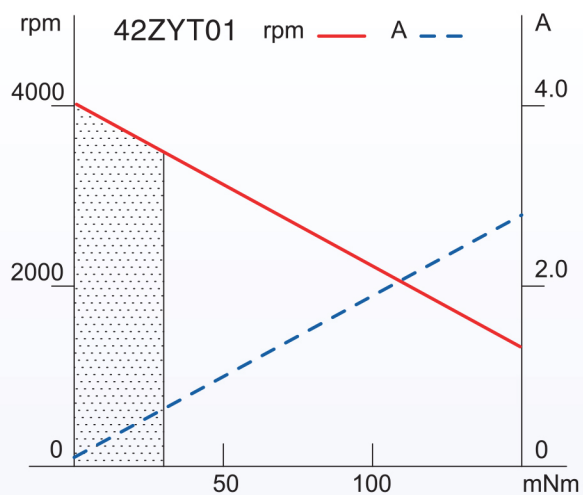
4、绝缘等级：B
Insulation Class:B

5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



型号 Model		42ZYT01	42ZYT02	42ZYT03
电压 Voltage	V	24		
空载转速 No load speed	rpm	4000		
额定转矩 Rated torque	mNm	30	50	70
额定转速 Rated speed	rpm	3480	3350	3350
额定电流 Rated current	A	0.64	1.10	1.40
堵载转矩 Stall torque	mNm	220	300	400
堵载电流 Stall current	A	4.2	5.6	7.5
惯量 Rotor inertia	Kgmm ²	11.6	15.4	19.3
反电势 Back-EMF constant	V/krpm	5.84	5.84	5.84
转矩常数 Torque Constant	mNm/A	55.8	55.8	55.8
电阻 Resistance(20℃)	ohm	5.8	4.1	3.2
重量 Weight	Kg	0.3	0.4	0.5
长度 L1	mm	80	90	100
铁芯长度 Rotor: La	mm	25	35	45

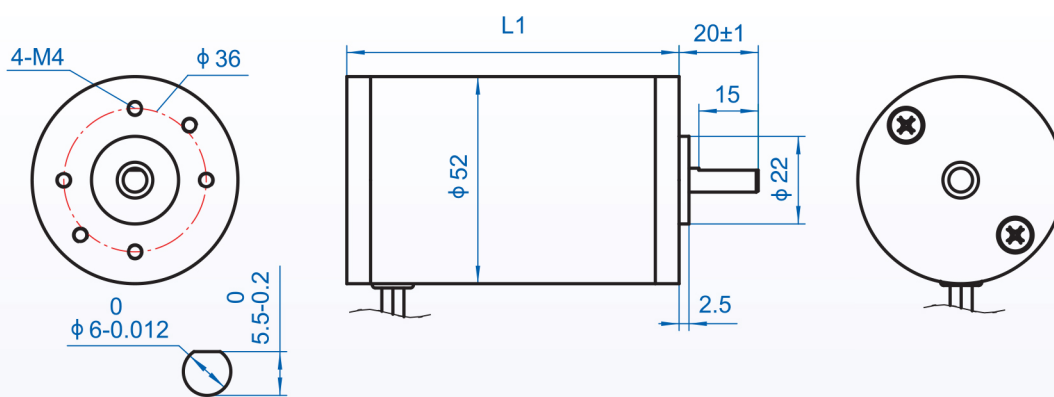
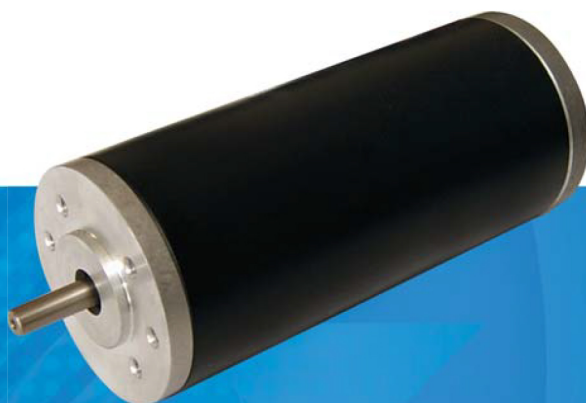
机座 Diameter 42 mm | 直流电机 DC MOTORS



机座 Diameter 52 mm

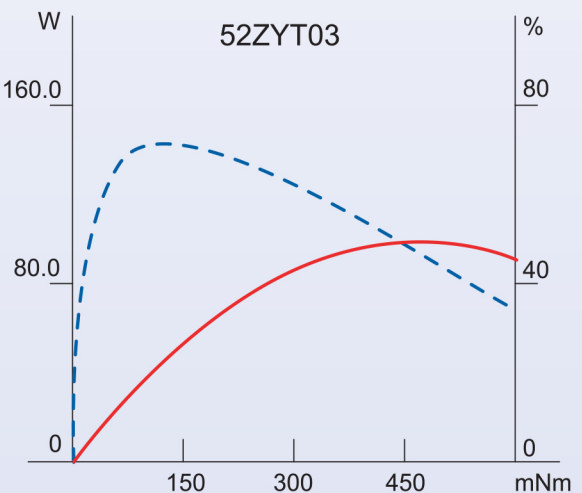
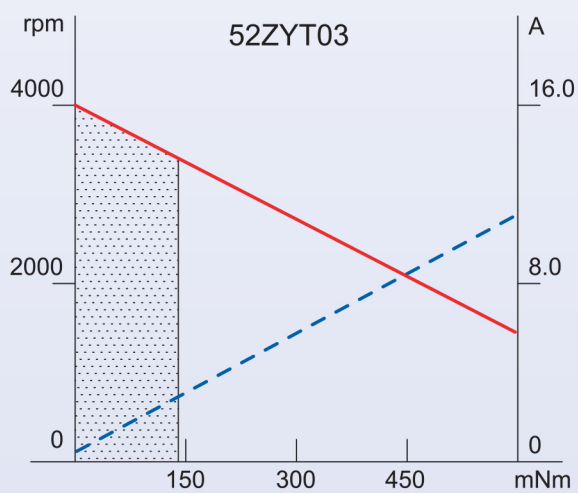
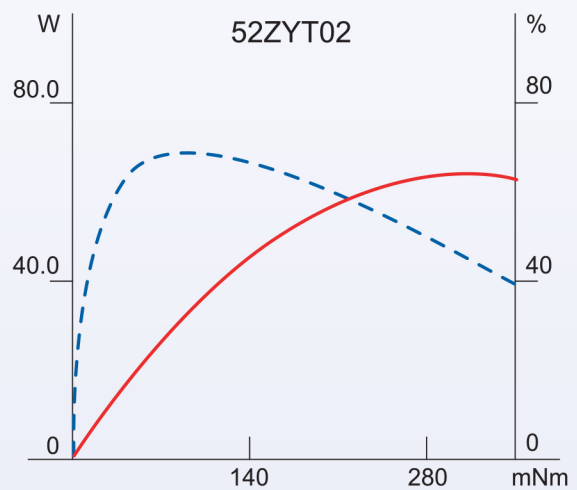
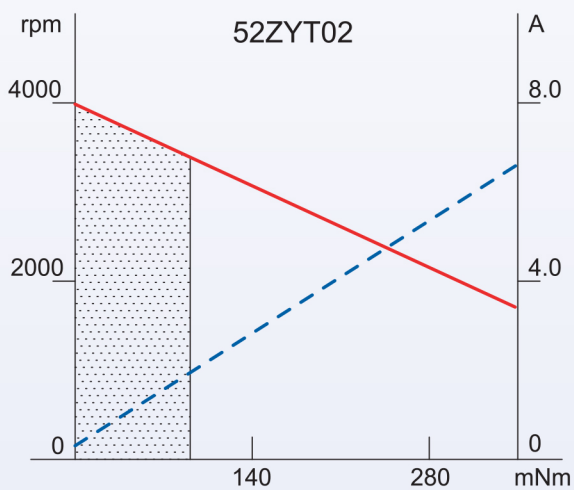
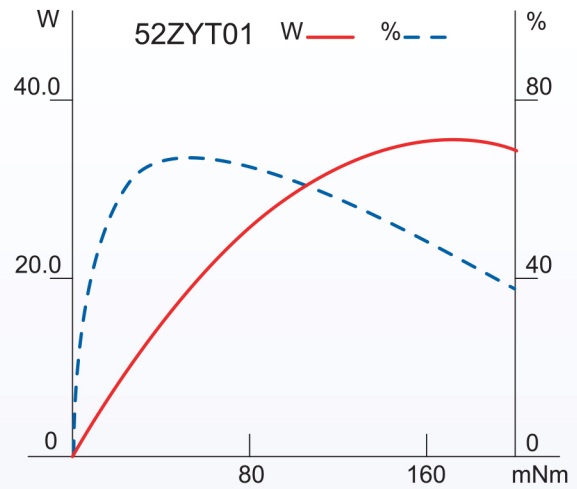
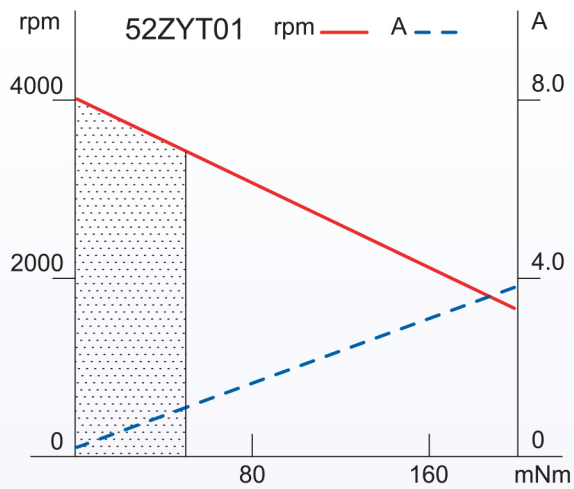
- 1、使用环境：-10—40℃
Environmental conditions:-10—40℃
- 2、极数：2
Number of Poles:2
- 3、磁钢材料：铁氧体
Magnet material:Hard Ferrit

- 4、绝缘等级：B
Insulation Class:B
- 5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



型号 Model		52ZYT01	52ZYT02	52ZYT03
电压 Voltage	V	24		
空载转速 No load speed	rpm	4000		
额定转矩 Rated torque	mNm	50	90	140
额定转速 Rated speed	rpm	3400	3400	3400
额定电流 Rated current	A	1.10	1.92	2.90
堵载转矩 Stall torque	mNm	330	610	930
堵载电流 Stall current	A	6.3	11.5	17.2
惯量 Rotor inertia	Kgmm ²	25.0	40.0	55.0
反电势 Back-EMF constant	V/krpm	5.80	5.83	5.86
转矩常数 Torque Constant	mNm/A	55.4	55.7	56.0
电阻 Resistance(20℃)	ohm	3.80	2.10	1.40
重量 Weight	Kg	0.70	0.95	1.20
长度 L1	mm	90	105	120
铁芯长度 Rotor; La	mm	20	35	50

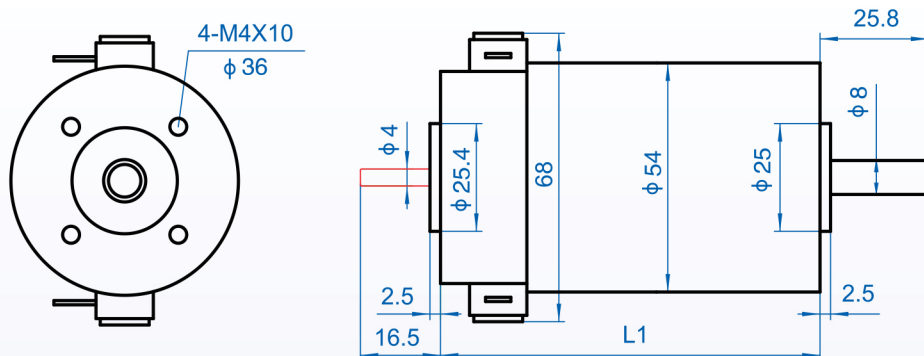
机座 Diameter 52 mm | 直流电机 DC MOTORS



机座 Diameter 54 mm

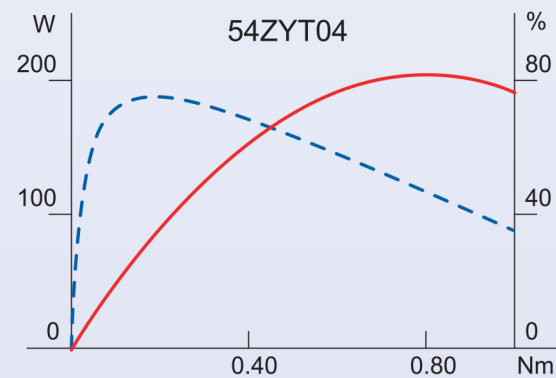
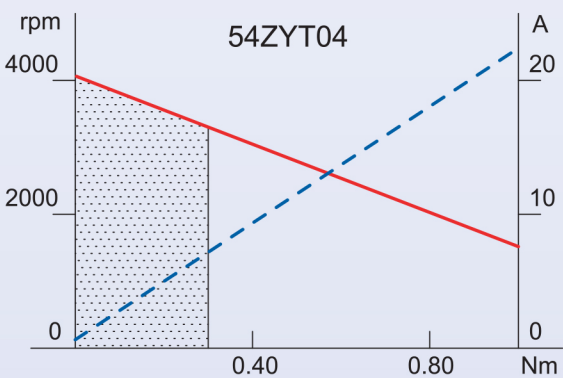
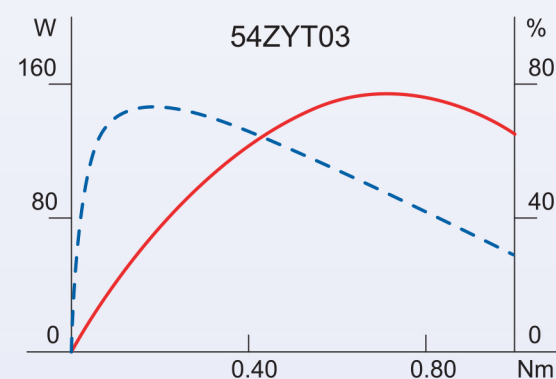
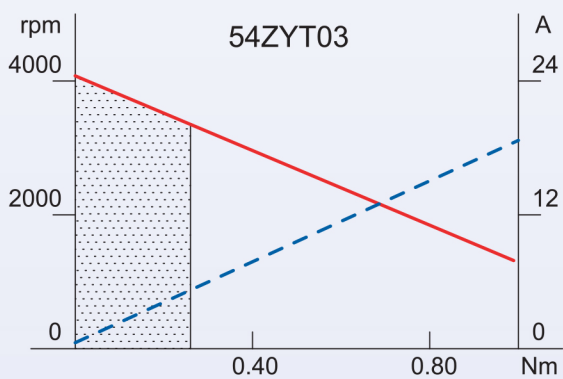
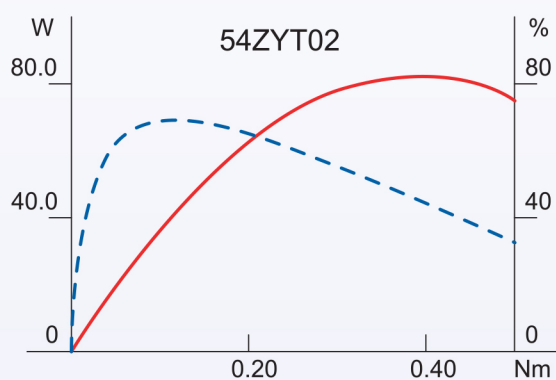
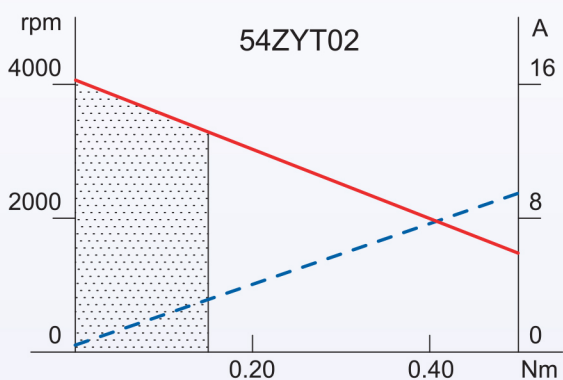
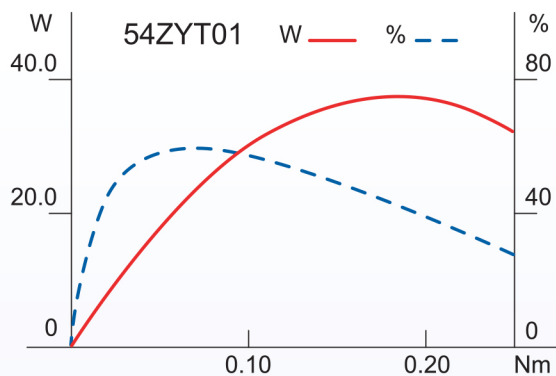
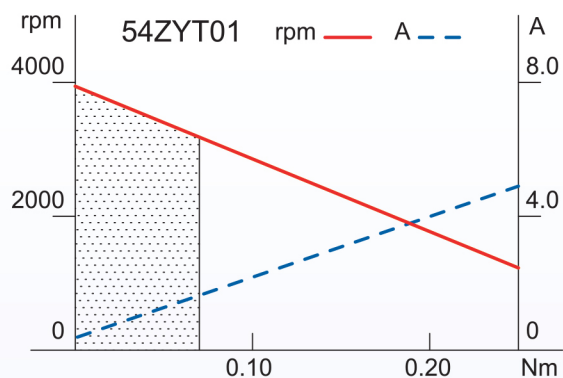
- 1、使用环境：-10—40℃
Environmental conditions:-10—40℃
- 2、极数：2
Number of Poles:2
- 3、磁钢材料：铁氧体
Magnet material:Hard Ferrit

- 4、绝缘等级：B
Insulation Class:B
- 5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



型号 Model		54ZYT01	54ZYT02	54ZYT03	54ZYT04
电压 Voltage	V	24			
空载转速 No load speed	rpm	4000			
额定转矩 Rated torque	Nm	0.07	0.15	0.26	0.36
额定转速 Rated speed	rpm	3200	3300	3300	3300
额定电流 Rated current	A	1.65	3.20	5.30	7.20
堵载转矩 Stall torque	Nm	0.35	0.76	1.40	1.80
堵载电流 Stall current	A	7.0	14.9	27.3	35.6
惯量 Rotor inertia	Kgmm ²	115	215	370	480
反电势 Back-EMF constant	V/krpm	5.77	5.77	5.77	5.77
转矩常数 Torque Constant	Nm/A	0.055	0.055	0.055	0.055
电阻 Resistance(20℃)	ohm	3.45	1.65	0.88	0.68
重量 Weight	Kg	0.60	0.90	1.3	1.6
长度 L1	mm	75	94	126	145
铁芯长度 Rotor; La	mm	17	36	66	86

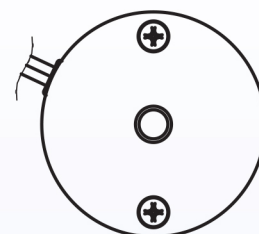
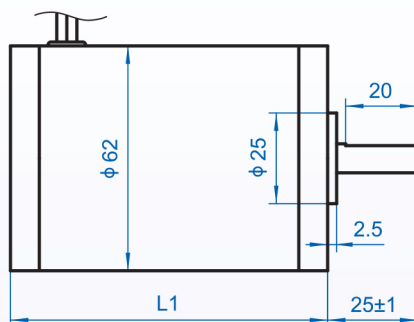
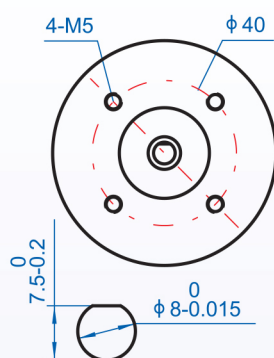
机座 Diameter 54 mm | 直流电机 DC MOTORS



机座 Diameter 62 mm

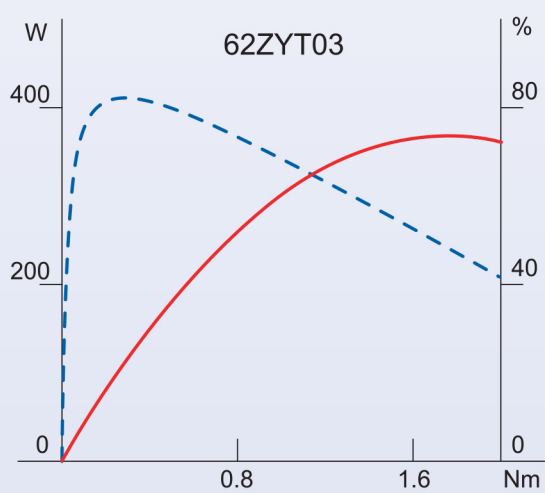
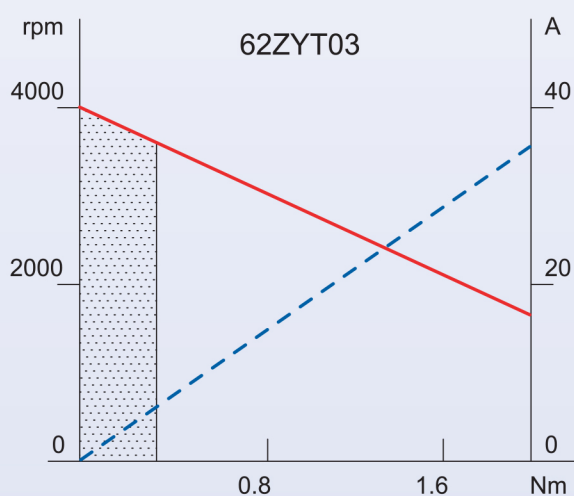
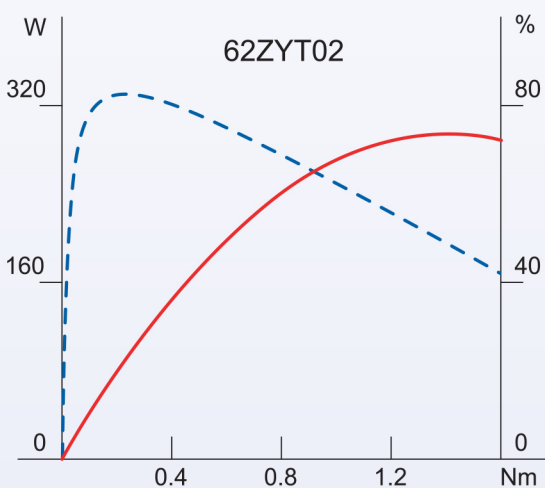
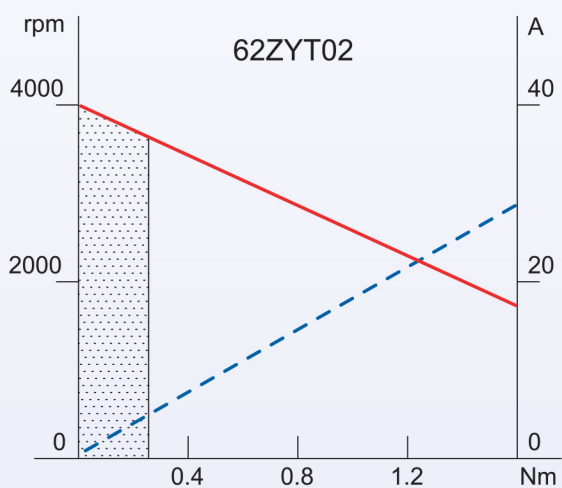
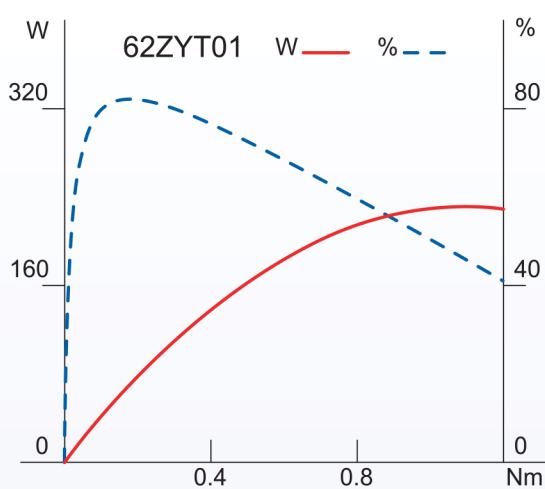
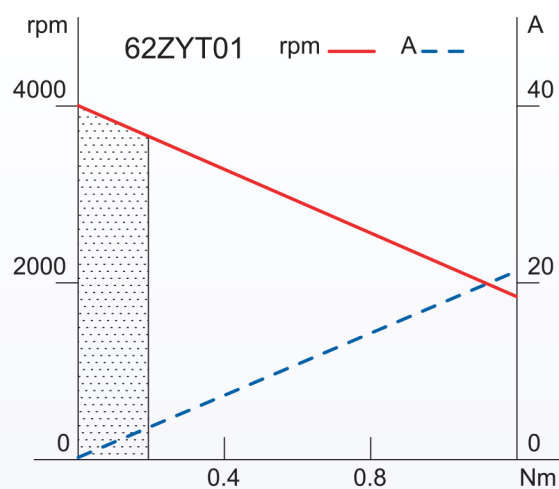
- 1、使用环境：-10—40℃
Environmental conditions:-10—40℃
- 2、极数：2
Number of Poles:2
- 3、磁钢材料：铁氧体
Magnet material:Hard Ferrit

- 4、绝缘等级：B
Insulation Class:B
- 5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



型号 Model		62ZYT01	62ZYT02	62ZYT03
电压 Voltage	V	24		
空载转速 No load speed	rpm	4000		
额定转矩 Rated torque	Nm	0.20	0.25	0.35
额定转速 Rated speed	rpm	3600	3600	3600
额定电流 Rated current	A	3.85	4.80	6.70
堵载转矩 Stall torque	Nm	2.20	2.80	3.60
堵载电流 Stall current	A	39.4	50.0	65.0
惯量 Rotor inertia	Kgmm ²	48.0	60.0	72.0
反电势 Back-EMF constant	V/krpm	5.94		
转矩常数 Torque Constant	Nm/A	0.0567		
电阻 Resistance(20℃)	ohm	0.61	0.48	0.37
重量 Weight	Kg	1.0	1.4	2.0
长度 L1	mm	98	108	118
铁芯长度 Rotor: La	mm	35	45	55

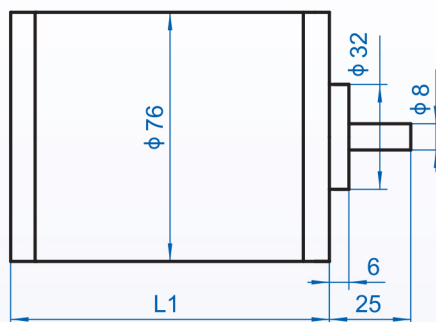
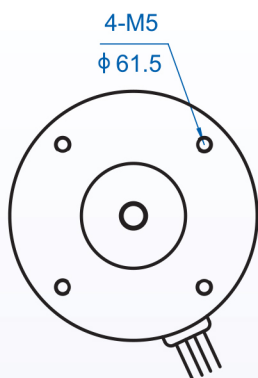
机座 Diameter 62 mm | 直流电机 DC MOTORS



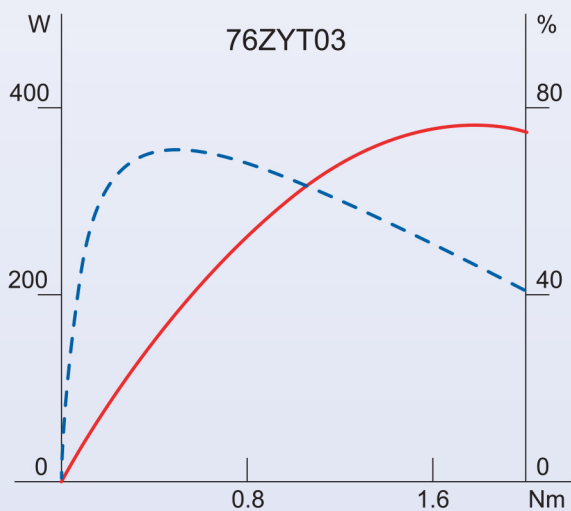
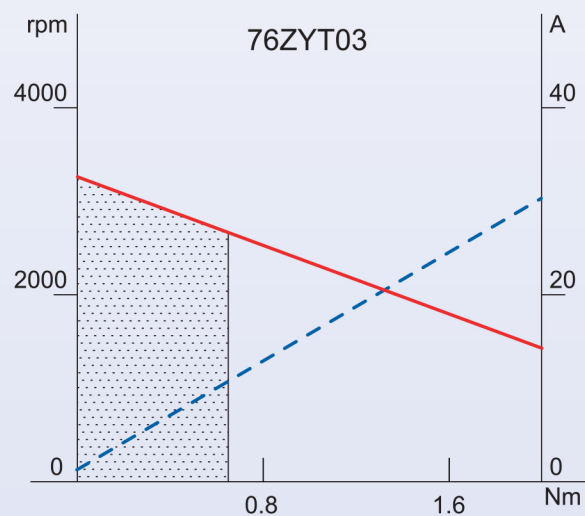
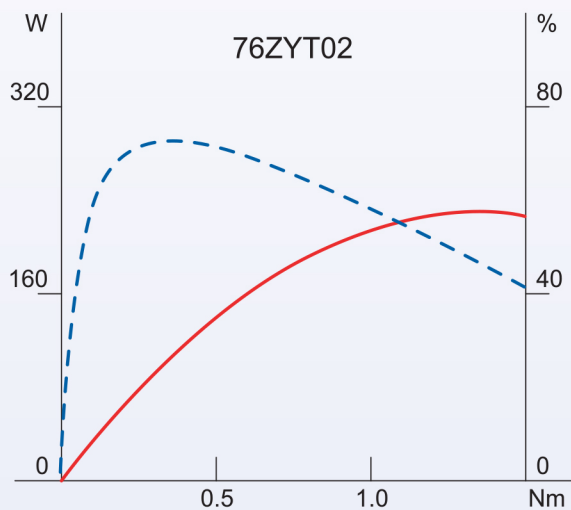
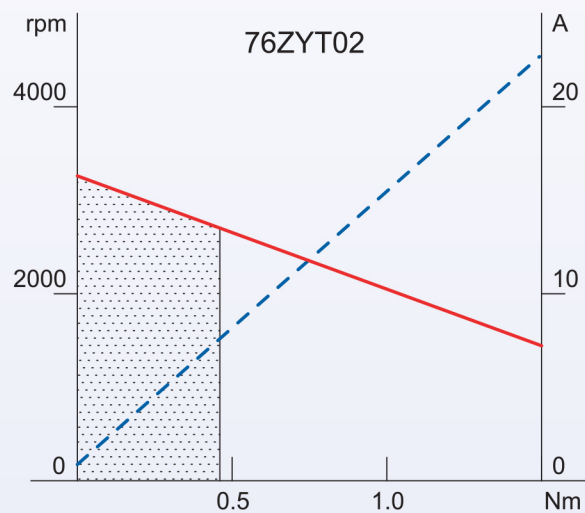
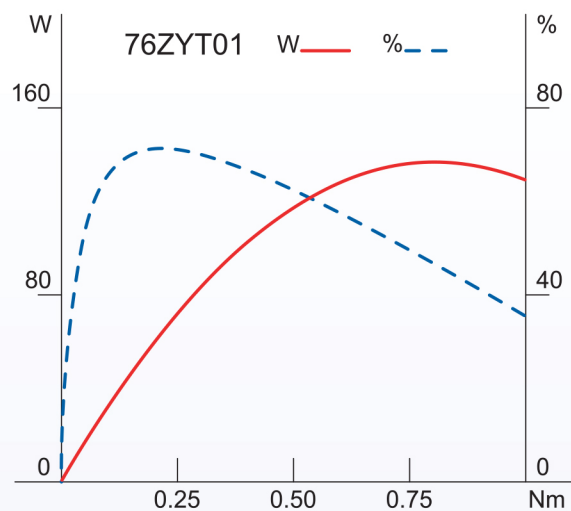
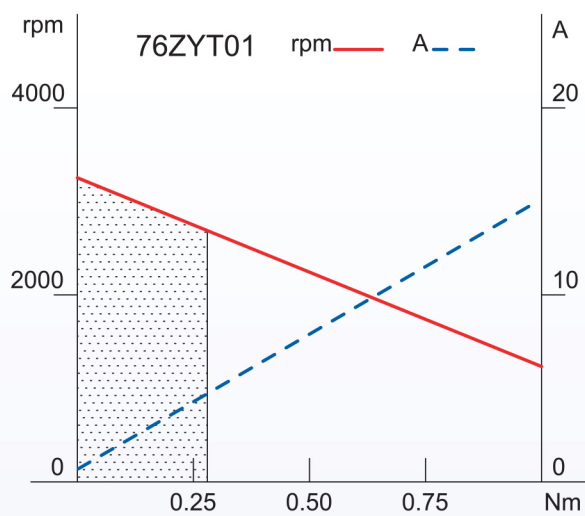
机座 Diameter 76 mm

- 1、使用环境：-10—40℃
Environmental conditions:-10—40℃
- 2、极数：2
Number of Poles: 2
- 3、磁钢材料：铁氧体
Magnet material:Hard Ferrit

- 4、绝缘等级：B
Insulation Class:B
- 5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



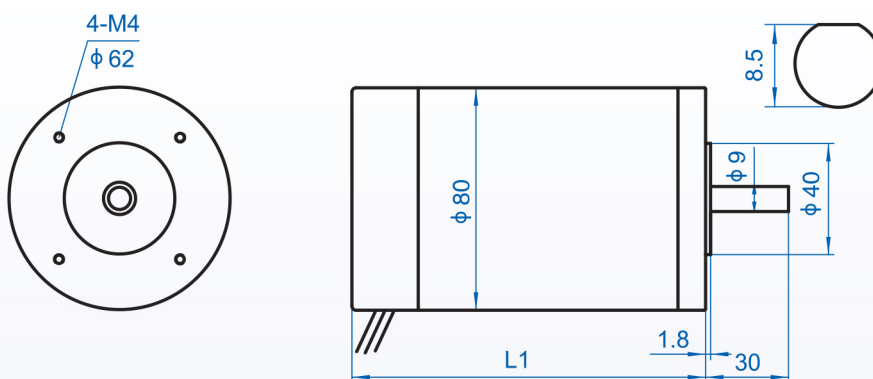
型号 Model		76ZYT01	76ZYT02	76ZYT03
电压 Voltage	V	24		
空载转速 No load speed	rpm	3200		
额定转矩 Rated torque	Nm	0.28	0.46	0.65
额定转速 Rated speed	rpm	2680	2680	2680
额定电流 Rated current	A	4.7	7.6	11.0
堵载转矩 Stall torque	Nm	1.45	2.40	3.40
堵载电流 Stall current	A	26.8	45.0	63.0
惯量 Rotor inertia	Kgmm ²	170	285	400
反电势 Back-EMF constant	V/krpm	7.20		
转矩常数 Torque Constant	Nm/A	0.0688		
电阻 Resistance(20℃)	ohm	1.00	0.60	0.45
重量 Weight	Kg	1.0	1.4	2.0
长度 L1	mm	98	118	138
铁芯长度 Rotor: La	mm	30	50	70



机座 Diameter 80 mm

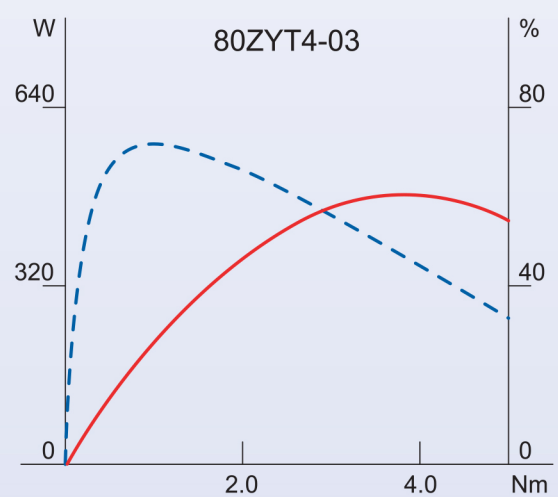
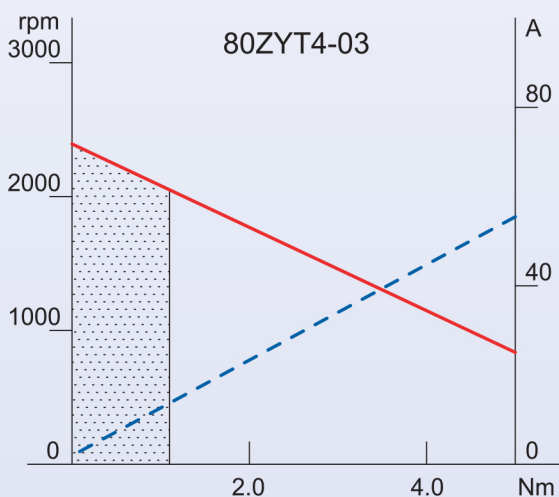
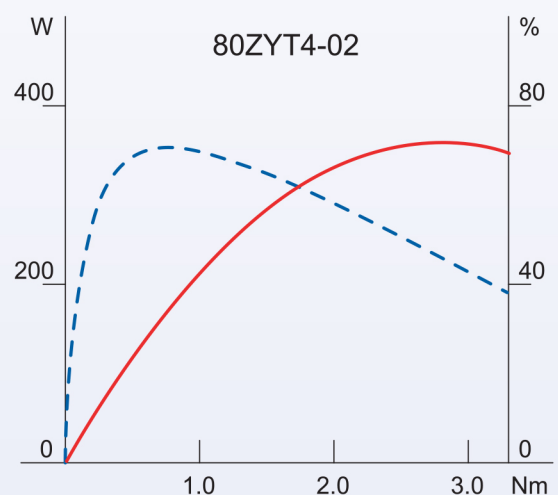
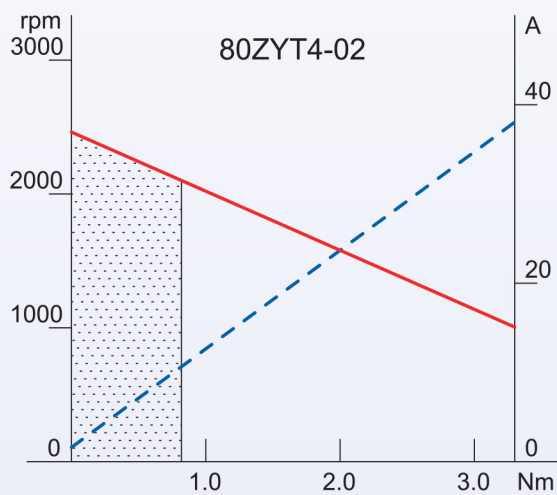
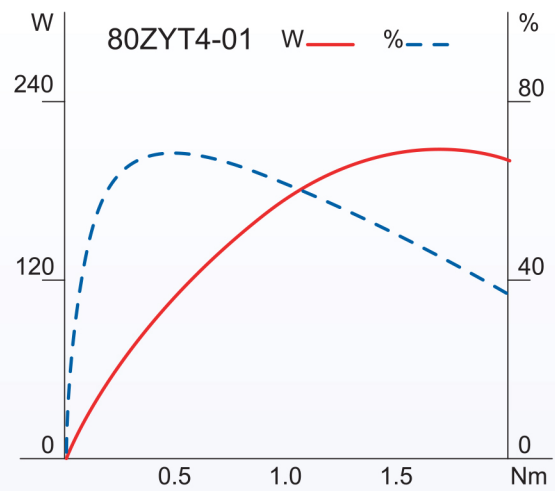
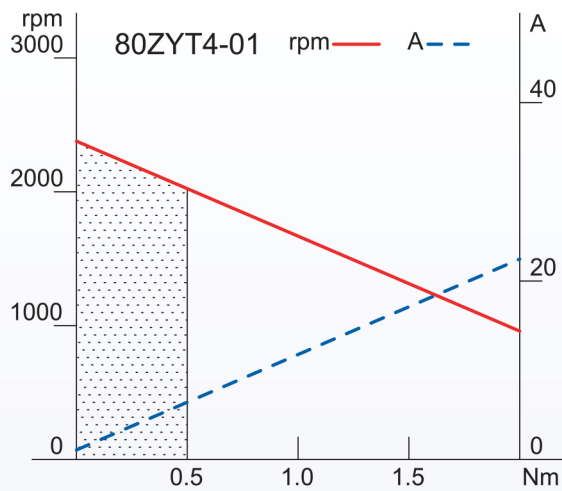
- 1、使用环境：-10—40℃
Environmental conditions:-10—40℃
- 2、极数：4
Number of Poles: 4
- 3、磁钢材料：铁氧体
Magnet material:Hard Ferrit

- 4、绝缘等级：B
Insulation Class:B
- 5、可以提供电压、转轴等专门设计
We can design the special voltage and shaft, and so on.



型号 Model		80ZYT4-01	80ZYT4-T02	80ZYT4-03
电压 Voltage	V	24		
空载转速 No load speed	rpm	2380	2460	2390
额定转矩 Rated torque	Nm	0.50	0.82	1.10
额定转速 Rated speed	rpm	2030	2100	2050
额定电流 Rated current	A	6.5	10.7	14.0
堵载转矩 Stall torque	Nm	3.40	5.58	7.90
堵载电流 Stall current	A	37.4	63.2	84.6
惯量 Rotor inertia	Kgmm ²	420	550	700
反电势 Back-EMF constant	V/krpm	9.8	9.5	9.8
转矩常数 Torque Constant	Nm/A	0.0935	0.0906	0.0934
电阻 Resistance(20℃)	ohm	0.65	0.38	0.28
重量 Weight	Kg	1.7	2.0	2.3
长度 L1	mm	108	128	148
铁芯长度 Rotor: La	mm	30	50	70

机座 Diameter 80 mm | 直流电机 DC MOTORS





24BYJ48

BYJ 永磁减速步进电机
BYJ Permanent Magnet Gear-box Stepping Motor

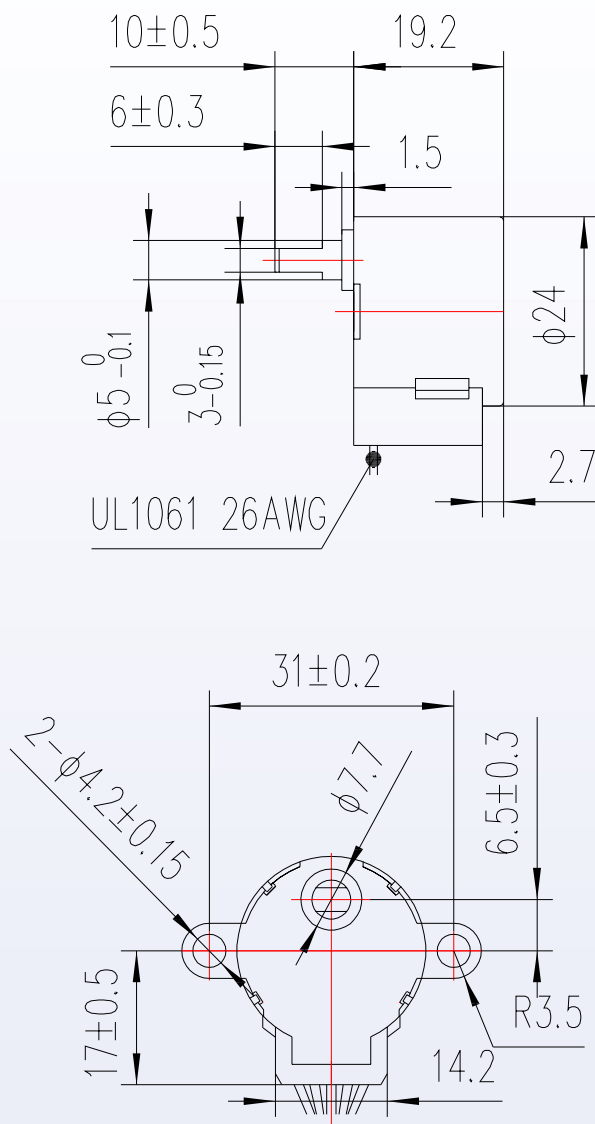
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
步距角精度 Step angle Accuracy	±10% (full step ,no load)
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	相数	电阻	步距角	减速比	启动频率	启动转矩	自定位转矩
Model NO.	Rated voltage V DC	No. of Phase	Resistance Phase Ω	Step Angle (DEG)	Rating Ratio	Starting Frequency (pps)	Leads (100 P. P. S) (mN.m)	Detent Torque (mN.m)
24BYJ48-01	12	4	120	5.625/64	1:64	≥500	≥49	≥34.3
24BYJ48-02	12	4	200	5.625/64	1:64	≥500	≥49	≥39.2
24BYJ48-03	12	4	300	5.625/64	1:64	≥500	≥29.4	≥29.4
24BYJ48-03W	12	4	300	5.625/25	1:25	≥500	≥11.7	≥14.7
24BYJ24-N05U01	8	2	50	11.25/16	1:16	≥600	≥24.5	≥14.7

■ 尺寸图 Dimension Drawing



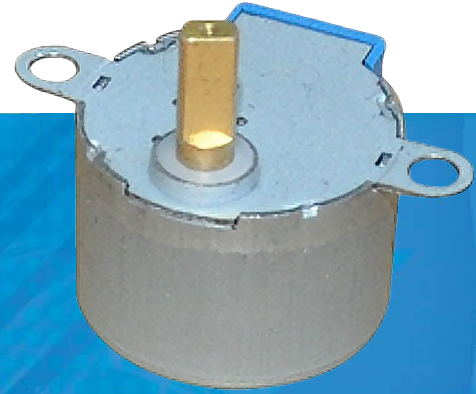
■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
- 2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.

28BYJ48

BYJ 永磁减速步进电机
BYJ Permanent Magnet Gear-box Stepping Motor



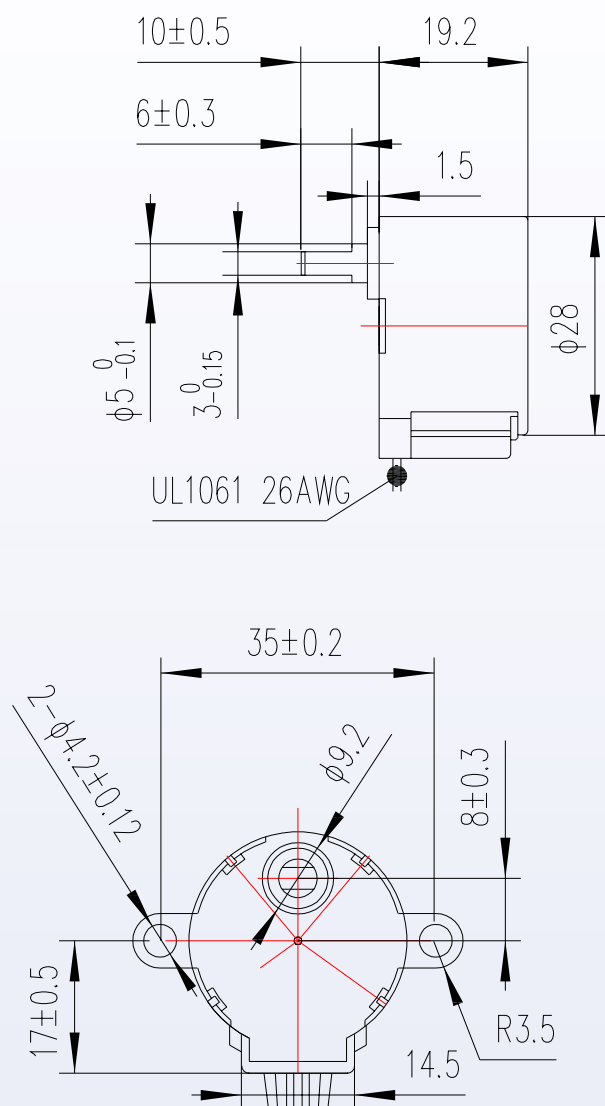
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
步距角精度 Step angle Accuracy	±10% (full step ,no load)
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	相数	电阻	步距角	减速比	启动频率	启动转矩	自定位转矩
Model NO.	Rated voltage V DC	No. of Phase	Resistance Phase Ω	Step Angle (DEG)	Rating Ratio	Starting Frequency (pps)	Leads (100 P. P. S) (mN.m)	Detent Torque (mN.m)
28BYJ48-01	12	4	120	5.625/64	1:64	≥500	≥49	≥19.6
28BYJ48-02	12	4	200	5.625/64	1:64	≥500	≥39.2	≥19.6

■ 尺寸图 Dimension Drawing



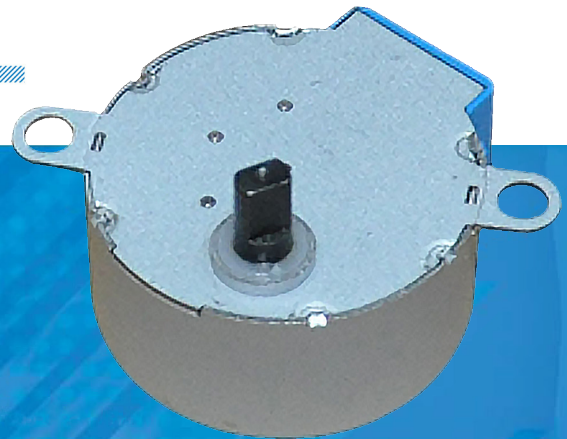
■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.

35BYJ46

BYJ 永磁减速步进电机
BYJ Permanent Magnet Gear-box Stepping Motor



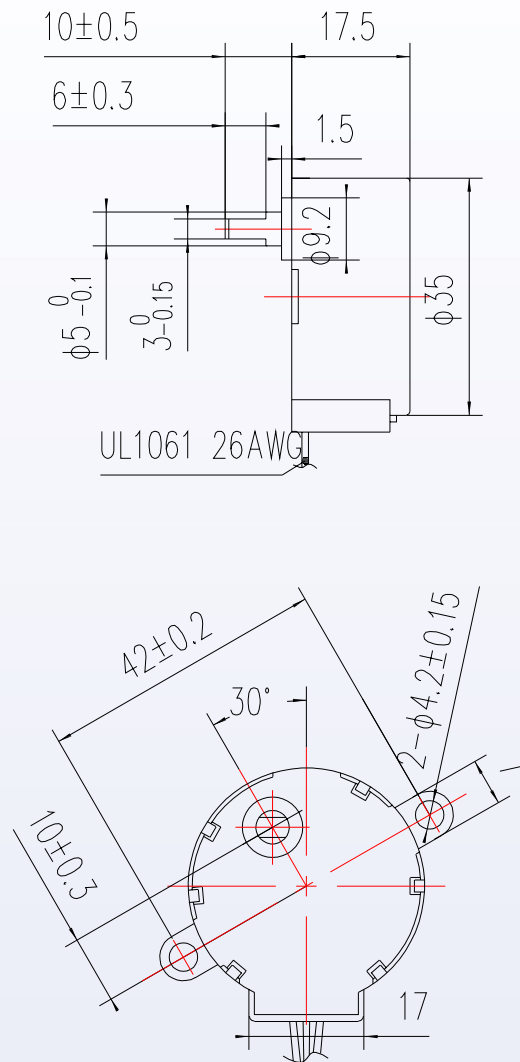
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
步距角精度 Step angle Accuracy	±10% (full step ,no load)
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	相数	电阻	步距角	减速比	启动频率	启动转矩	自定位转矩
Model NO.	Rated voltage V DC	No. of Phase	Resistance Phase Ω	Step Angle (DEG)	Rating Ratio	Starting Frequency (pps)	Leads (100 P. P. S) (mN.m)	Detent Torque (mN.m)
35BYJ46-04Y	12	4	40	7.5/41.6	1:41.6	≥900	≥78.4	≥39.2
35BYJ46-01	12	4	130	7.5/85.25	1:85.25	≥700	≥145	≥78.4
35BYJ26-01Y	12	2	100	7.5/41.6	1:41.6	≥900	≥78.4	≥15.4

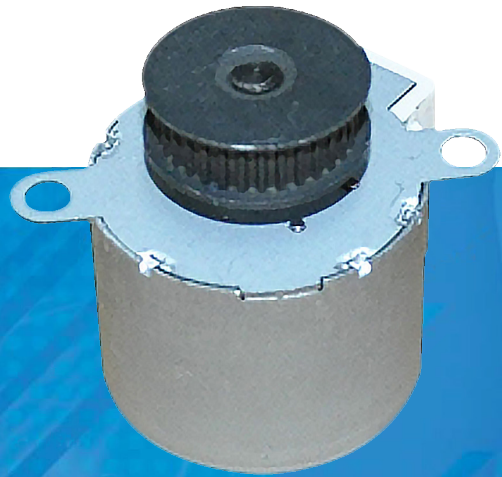
■ 尺寸图 Dimension Drawing



■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.



35BYJ412H

BYJ 永磁减速步进电机
BYJ Permanent Magnet Gear-box Stepping Motor

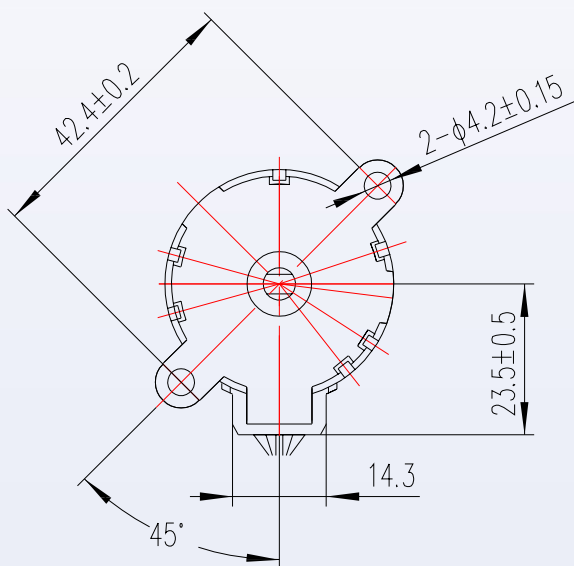
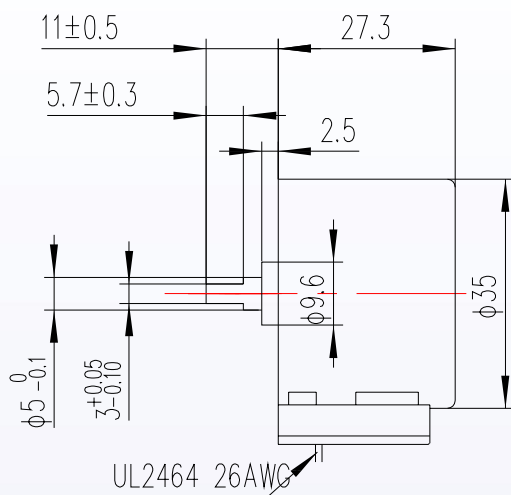
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
步距角精度 Step angle Accuracy	±10% (full step ,no load)
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	相数	电阻	步距角	减速比	启动频率	启动转矩	自定位转矩
Model NO.	Rated voltage V DC	No. of Phase	Resistance Phase Ω	Step Angle (DEG)	Rating Ratio	Starting Frequency (pps)	Leads (100P.P.S) (mN.m)	Detent Torque (mN.m)
35BYJ412H22-20	12	4	20	3.75/22	1:22	≥900	≥88.2	≥78.4
35BYJ412H42-120	12	4	120	3.75/42.5	1:42.5	≥600	≥196	≥147
35BYJ412H42-60	12	4	60	3.75/42.5	1:42.5	≥700	≥294	≥147
35BYJ212H42-30	12	2	30	3.75/42.5	1:42.5	≥800	≥343	≥147
35BYJ212H42-60	12	2	60	3.75/42.5	1:42.5	≥600	≥323.5	≥147

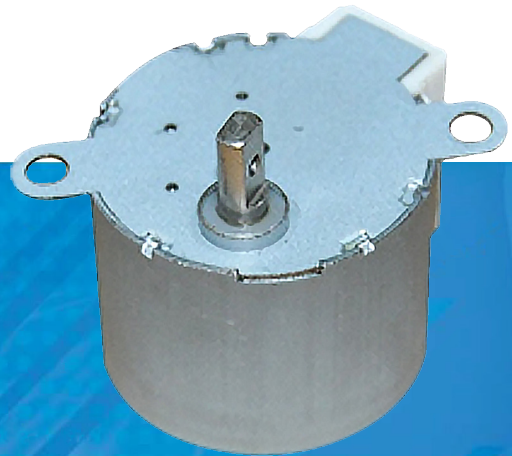
■ 尺寸图 Dimension Drawing



■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.



35BYJ412P

BYJ 永磁减速步进电机
BYJ Permanent Magnet Gear-box Stepping Motor

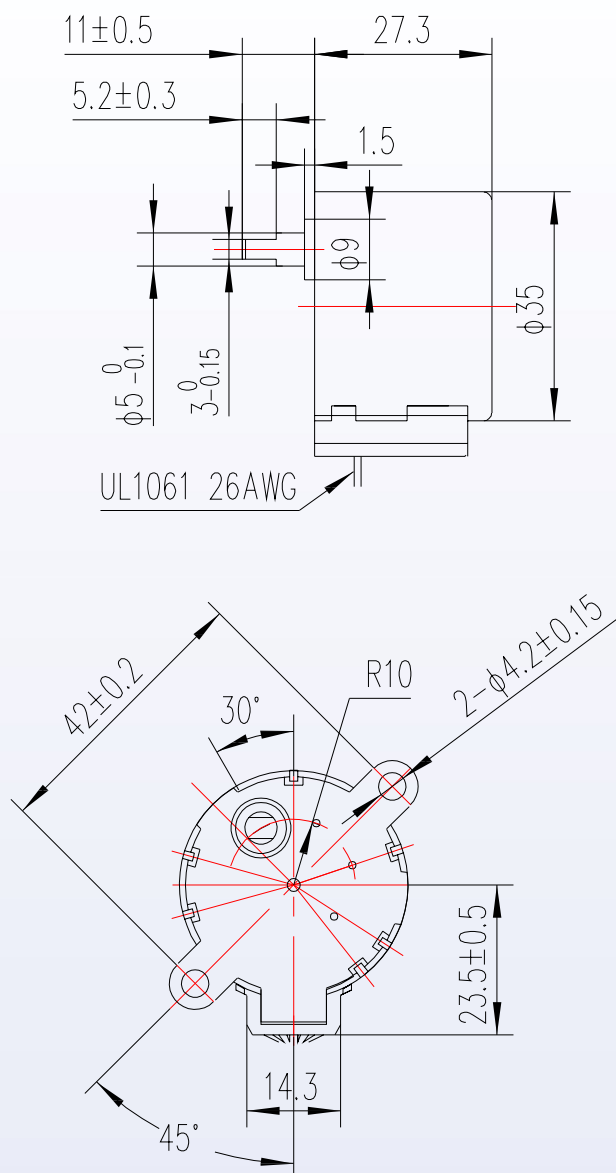
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
步距角精度 Step angle Accuracy	±10% (full step ,no load)
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	相数	电阻	步距角	减速比	启动频率	启动转矩	自定位转矩
Model NO.	Rated voltage V DC	No. of Phase	Resistance Phase Ω	Step Angle (DEG)	Rating Ratio	Starting Frequency (pps)	Leads (100 P. P. S) (mN.m)	Detent Torque (mN.m)
35BYJ412P12-20	12	4	20	3.75/12	1:12	≥900	≥88.2	≥49
35BYJ412P12-60	12	4	60	3.75/12	1:12	≥850	≥44.1	≥49
35BYJ412P80-120	12	4	120	3.75/80	1:80	≥600	≥147	≥245
35BYJ412P80-60	12	4	60	3.75/80	1:80	≥800	≥176	≥245
35BYJ212P80-60	12	2	60	3.75/80	1:80	≥850	≥215	≥245

■ 尺寸图 Dimension Drawing



■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.



50BYJ46

BYJ 永磁减速步进电机
BYJ Permanent Magnet Gear-box Stepping Motor

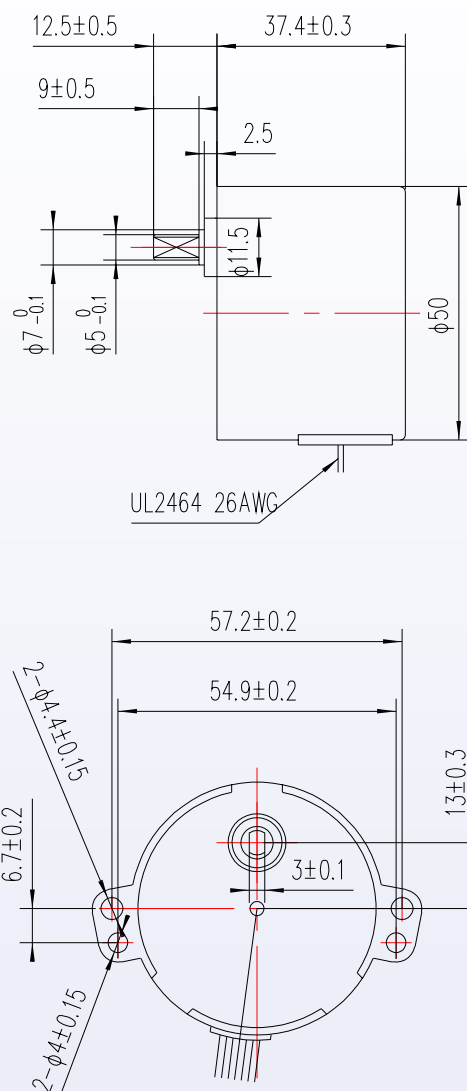
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
步距角精度 Step angle Accuracy	±10% (full step ,no load)
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	相数	电阻	步距角	启动频率	启动转矩 Pulling Torque (300P.P.S) (Kg.cm)													
Model NO.	Rated voltage V DC	No. of Phase	Resistance Phase Ω	Step Angle (DEG)	Starting Frequency (pps)	减速比 Rating Ratio i													
						501	336	247	202	125	100	81	62	50	33	25	15.6	8.3	
50BYJ26-30	12	2	30	7.5/i	≥450	20	18	15	12	9.5	8	6.5	5	4	2.5	2	1.2	0.6	
50BYJ46-30	12	4	30	7.5/i	≥350	15	14	12	10	8	6	4.8	3.2	2.6	1.8	1.3	0.8	0.4	

■ 尺寸图 Dimension Drawing



■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
- 2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.



60BYJ48

BYJ 永磁减速步进电机
BYJ Permanent Magnet Gear-box Stepping Motor

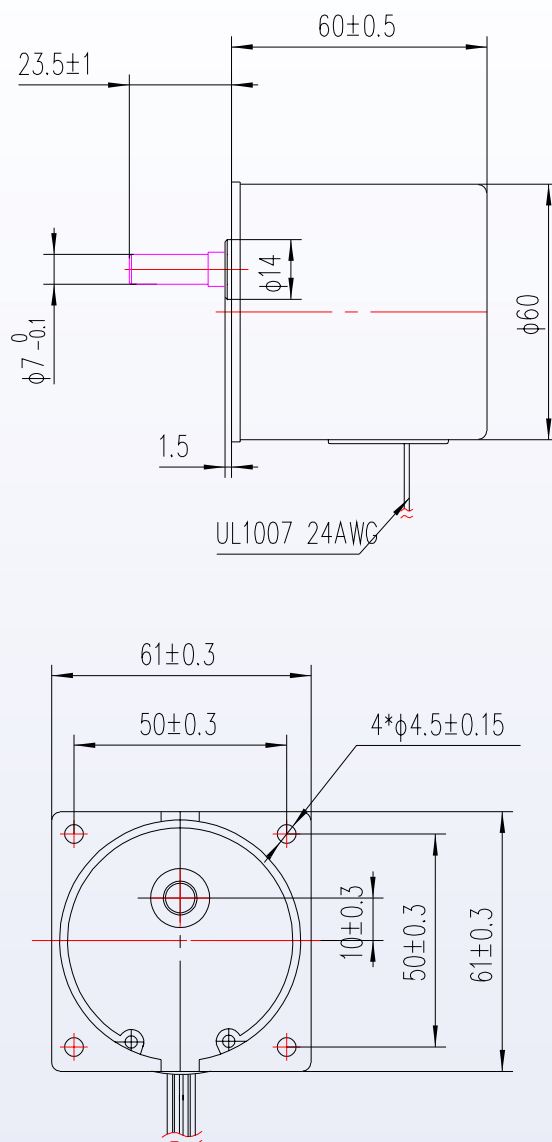
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
步距角精度 Step angle Accuracy	±10% (full step ,no load)
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	相数	电阻	步距角	减速比	启动频率	启动转矩	自定位转矩
Model NO.	Rated voltage V DC	No. of Phase	Resistance Phase Ω	Step Angle (DEG)	Rating Ratio	Starting Frequency (pps)	Leads (100 P. P. S) (Kg.cm)	Detent Torque (Kg.cm)
60BYJ4871-15	12	4	15	5.625/71.25	1:71.25	≥250	≥28	≥40
60BYJ4851-15	12	4	15	5.625/51.3	1:51.3	≥250	≥20	≥28

■ 尺寸图 Dimension Drawing



■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
- 2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.



25BY24J

BYJ 永磁减速步进电机
BYJ Permanent Magnet Gear-box Stepping Motor

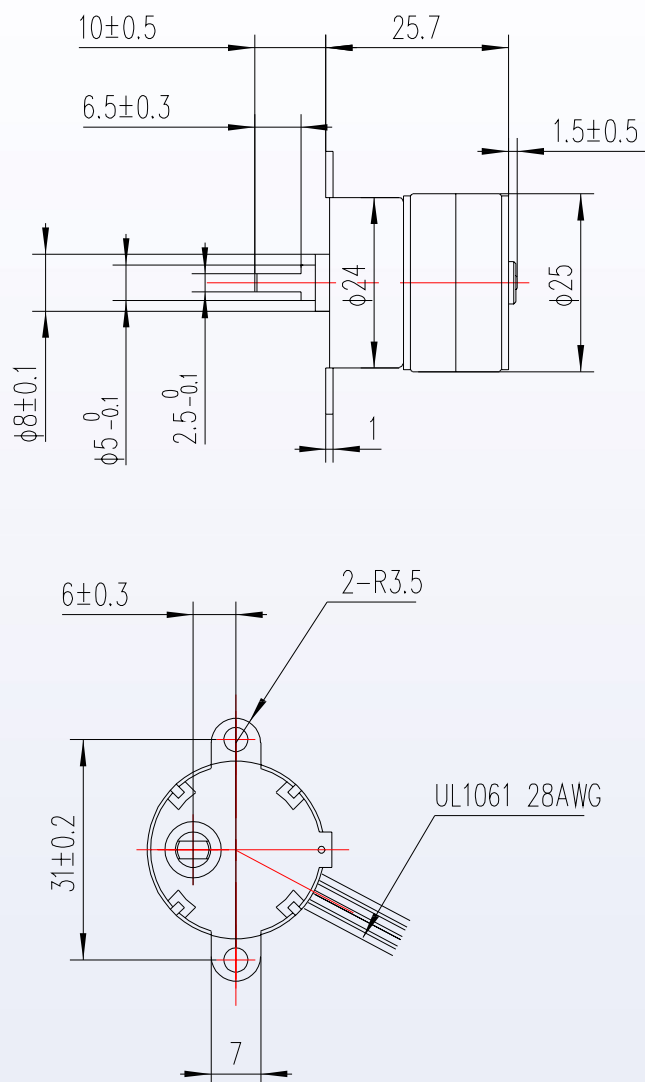
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
步距角精度 Step angle Accuracy	±10% (full step ,no load)
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.05mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	相数	电阻	步距角	减速比	启动频率	启动转矩	自定位转矩
Model NO.	Rated voltage V DC	No. of Phase	Resistance Phase Ω	Step Angle (DEG)	Rating Ratio	Starting Frequency (pps)	Leads (100P.P.S) (g.cm)	Detent Torque (g.cm)
25BY24J48.8-40	12	4	40	3.75/48.8	1:48.8	≥1000	≥1000	≥1000

■ 尺寸图 Dimension Drawing



■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
- 2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.



35BY35J

BYJ 永磁减速步进电机
BYJ Permanent Magnet Gear-box Stepping Motor

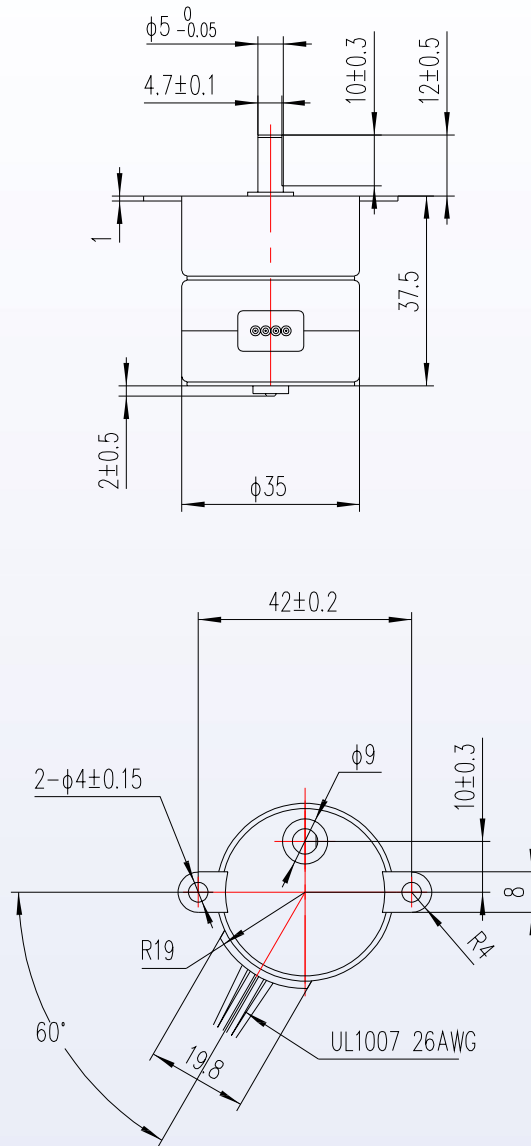
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
步距角精度 Step angle Accuracy	±10% (full step ,no load)
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.05mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	相数	电阻	步距角	减速比	启动频率	启动转矩	自定位转矩
Model NO.	Rated voltage V DC	No. of Phase	Resistance Phase Ω	Step Angle (DEG)	Rating Ratio	Starting Frequency (pps)	Leads (100 P. P. S) (g.cm)	Detent Torque (g.cm)
35BY35J8.4-30	12	4	30	7.5/8.4	1:8.4	≥750	≥1000	≥400
35BY35J30-30	12	4	30	7.5/30	30	≥700	≥3000	≥1500
35BY35J60-30	12	4	30	7.5/60	1:60	≥650	≥4000	≥3000

■ 尺寸图 Dimension Drawing



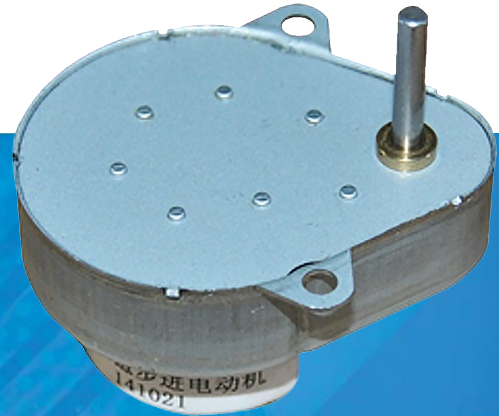
■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
- 2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.

35BY49J

BYJ 永磁减速步进电机
BYJ Permanent Magnet Gear-box Stepping Motor



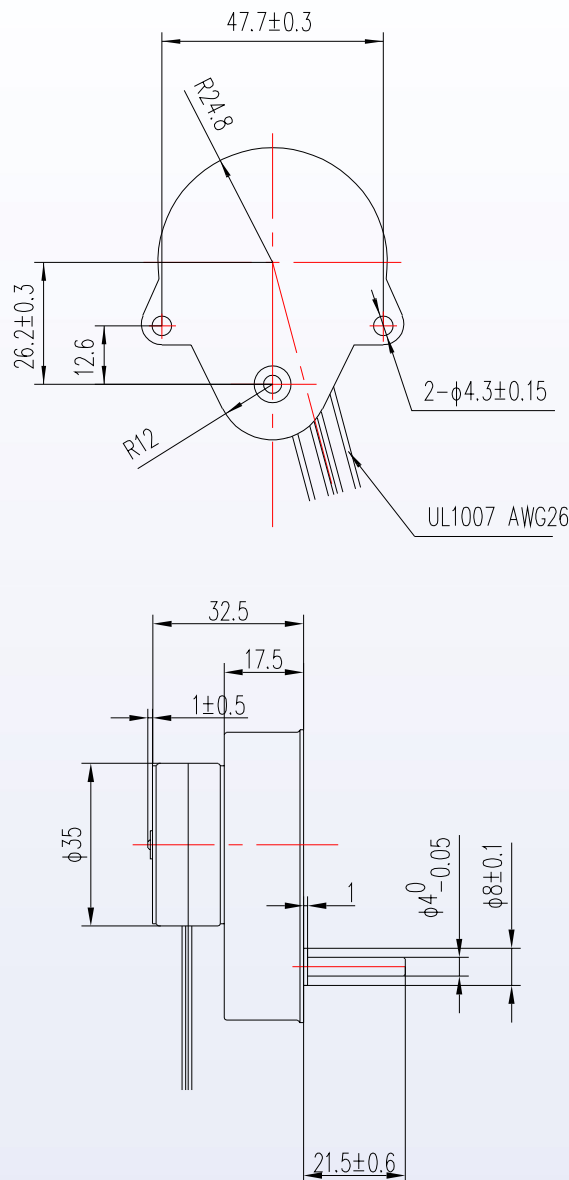
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
步距角精度 Step angle Accuracy	±10% (full step ,no load)
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60℃ .(rated current,2 phase on)
环境温度 Ambient Temperature	-40℃ ~ +50℃
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.05mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	相数	电阻	步距角	减速比	启动频率	启动转矩	自定位转矩
Model NO.	Rated voltage V DC	No. of Phase	Resistance Phase Ω	Step Angle (DEG)	Rating Ratio	Starting Frequency (pps)	Leads (100P.P.S) (g.cm)	Detent Torque (g.cm)
35BY212S49J-30	12	2	30	7.5/4.16	1:4.167	≥400	≥300	≥200
35BY412S49J-30	12	4	30	7.5/4.16	1:4.167	≥350	≥200	≥200

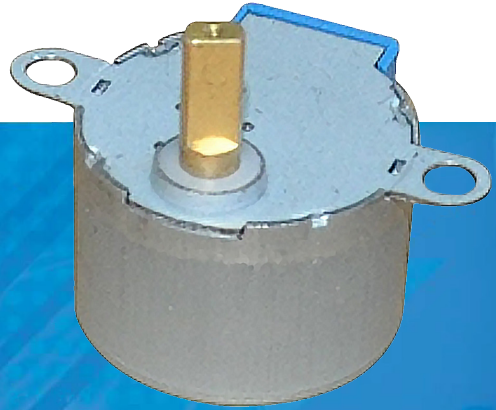
■ 尺寸图 Dimension Drawing



■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
- 2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.



28TKYJ

TKYJ 永磁减速同步电机
TKYJ Permanent Magnet Gear-box Synchronous Motor

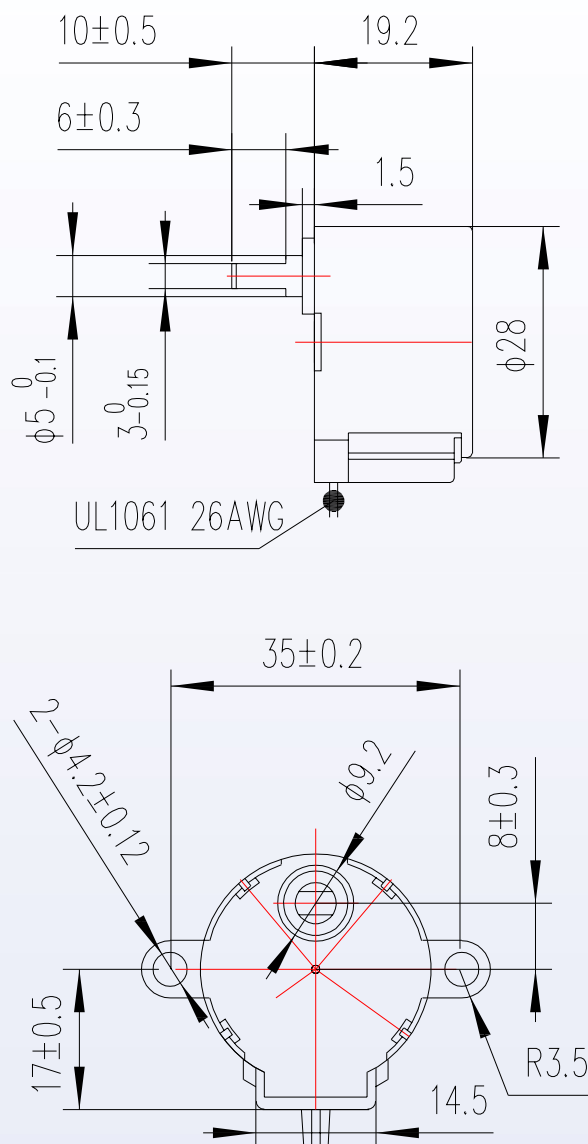
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	频率	功率	减速比	转矩	同步转速	绝缘介电强度
Model NO.	Rated voltage V AC	Frequency pps	Power W	Rating Ratio	Torque (g.cm)	Synchronous speed (rpm)	Dielectric Strength
28TKYJ24-6	12	50	≤3	1:64	≥500	6	AC 600V 1s

■ 尺寸图 Dimension Drawing



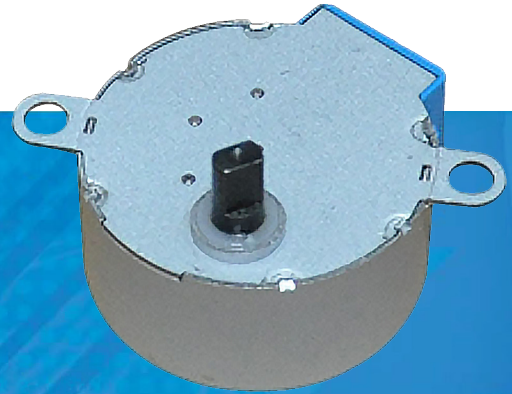
■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
- 2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.

35TKYJ

TKYJ 永磁减速同步电机
TKYJ Permanent Magnet Gear-box Synchronous Motor



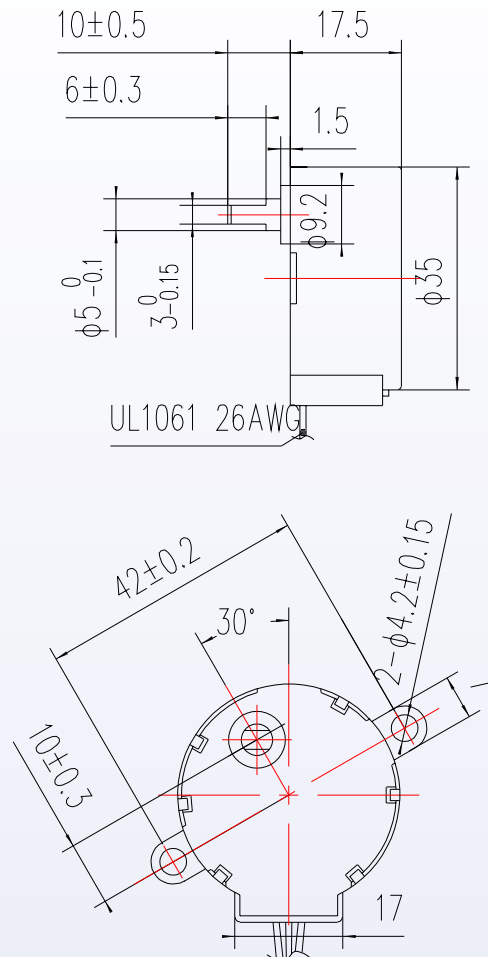
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	频率	功率	减速比	转矩	同步转速	绝缘介电强度
Model NO.	Rated voltage V AC	Frequency pps	Power W	Rating Ratio	Torque (g.cm)	Synchronous speed (rpm)	Dielectric Strength
35TKYJ24-12	24	50	≤3	1:41.6	≥400	12	AC 600V 1s
35TKYJ24-6	24	50	≤3	1:85.25	≥800	6	AC 600V 1s

■ 尺寸图 Dimension Drawing



■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
- 2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.



50TKYJ

TKYJ 永磁减速同步电机
TKYJ Permanent Magnet Gear-box Synchronous Motor

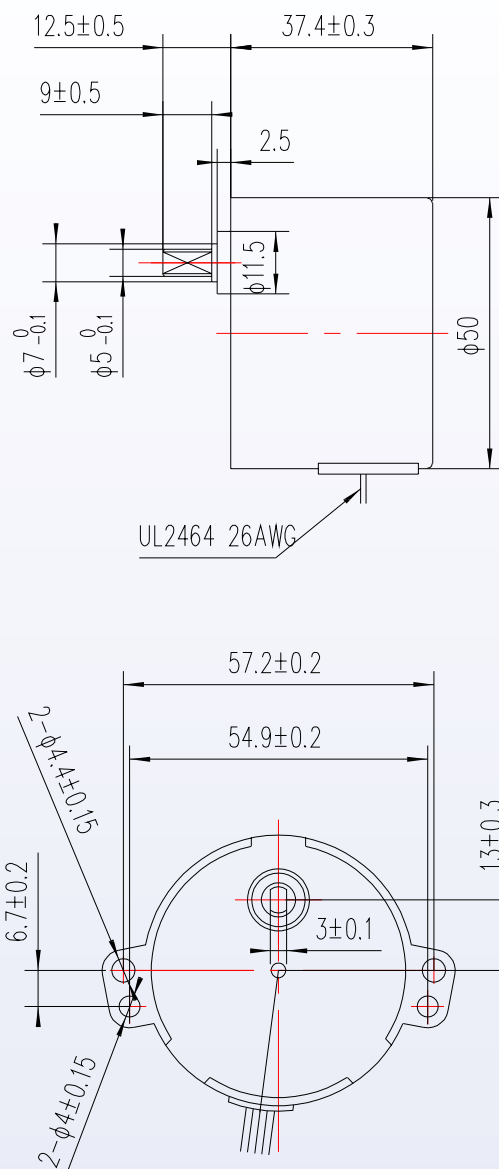
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	频率	功率	电容	启动转矩 Pulling Torque A/E (Kg.cm)										
Model NO.	Rated voltage V AC	Frequency pps	Power W	Capacitance (uF)	同步转速 Synchronous speed (rpm)										
					1	1.5	2	2.5	4	5	8	10	15	20	32
50TKYJ24	24	50	≤5	8.2	20/22	15/18	12/14	10/11	5.5/6	4.5/5	3.5/4	3/3.2	2.5/2.8	2	1.5
50TKYJ110	110	50	≤7	0.47											
50TKYJ220	220	50	≤7	0.15											

■ 尺寸图 Dimension Drawing



■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
- 2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.



60TKYJ

TKYJ 永磁减速同步电机
TKYJ Permanent Magnet Gear-box Synchronous Motor

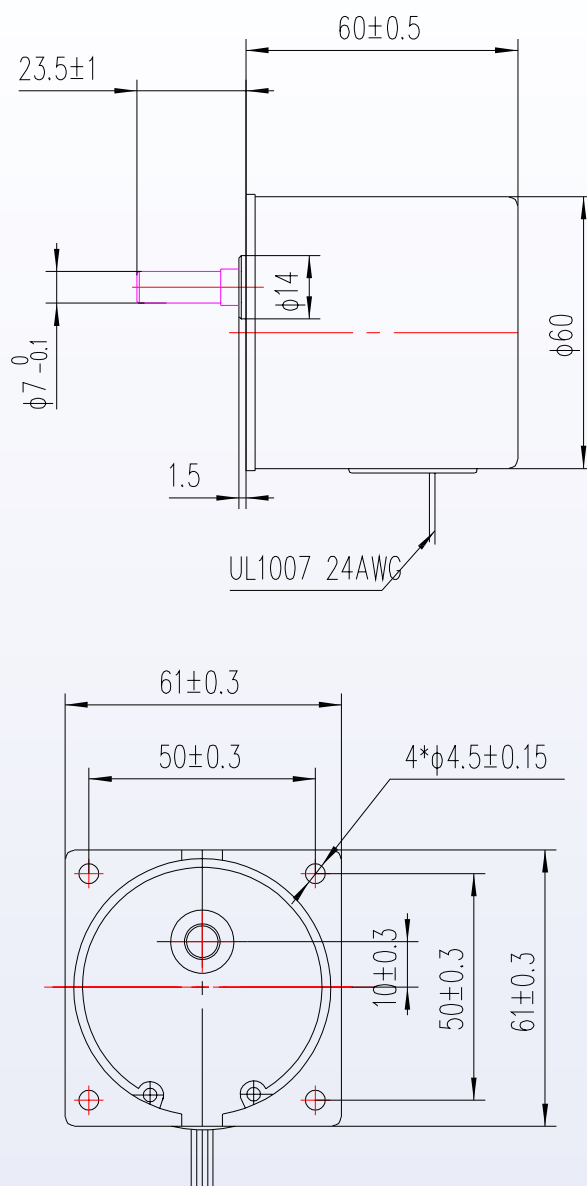
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	频率	功率	转矩	同步转速	绝缘介电强度
Model NO.	Rated voltage V AC	Frequency pps	Power W	Torque (Kg.cm)	Synchronous speed (rpm)	Dielectric Strength
60TKYJ24-5	24	50	≤17	≥26	5	AC 600V 1s
60TKYJ24-7.5	24	50	≤17	≥15	7.5	AC 600V 1s

■ 尺寸图 Dimension Drawing



■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
- 2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.



63TKYJ

TKYJ 永磁减速同步电机
TKYJ Permanent Magnet Gear-box Synchronous Motor

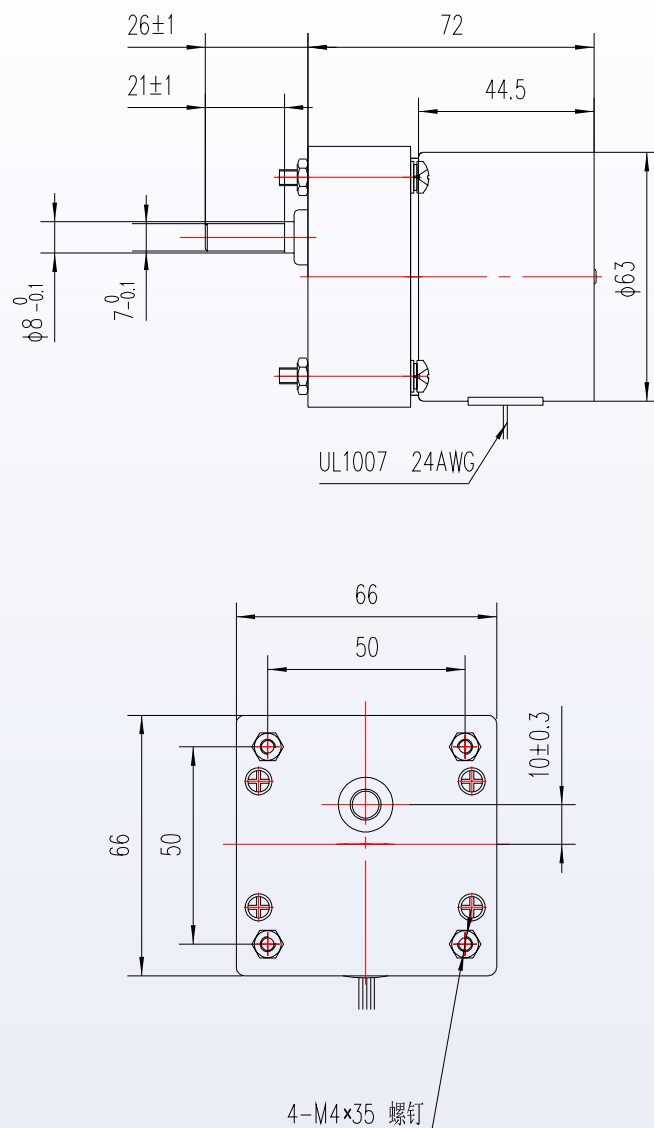
■ 基本技术参数 Base technique parameter

项目 Item	性能 Specification
电阻精度 Resistance Accuracy	±10%
温升 Temperature Rise	60°C .(rated current,2 phase on)
环境温度 Ambient Temperature	-40°C ~ +50°C
绝缘电阻 Insulation Resistance	100MΩ Min. ,500VDC
介电强度 Dielectric Resistance	600VAC , 1s , 1mA
转轴径向跳动 Shaft Radial Play	0.1mmMax
输出轴轴向跳动 Shaft Axial play	0.55mmMax

■ 技术规格 Technique Specification

型号	额定电压	频率	功率	转矩	同步转速	绝缘介电强度
Model NO.	Rated voltage V AC	Frequency pps	Power W	Torque (Kg.cm)	Synchronous speed (rpm)	Dielectric Strength
63TKYJ24-6	24	50	≤17	≥40	6	AC 600V 1s
63TKYJ24-15	24	50	≤17	≥20	15	AC 600V 1s

■ 尺寸图 Dimension Drawing



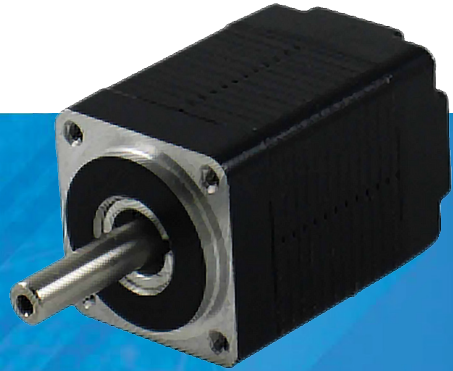
■ 备注 Remark

- 1、线圈电阻及其它电性能参数可以根据客户要求订制；
- 2、电机轴尺寸、输出同步带轮或输出齿轮、引线长度、插头规格可以根据客户要求订制。

- 1、Coil resistance, and other electrical parameters can be customized according to customer requirements;
- 2、The motor shaft size, output synchronous belt pulley or the output gear, lead length, plug specifications can be customized according to customer requirements.

1.8° Size 20BYG

混合式步进电机 Hybrid Stepping Motor



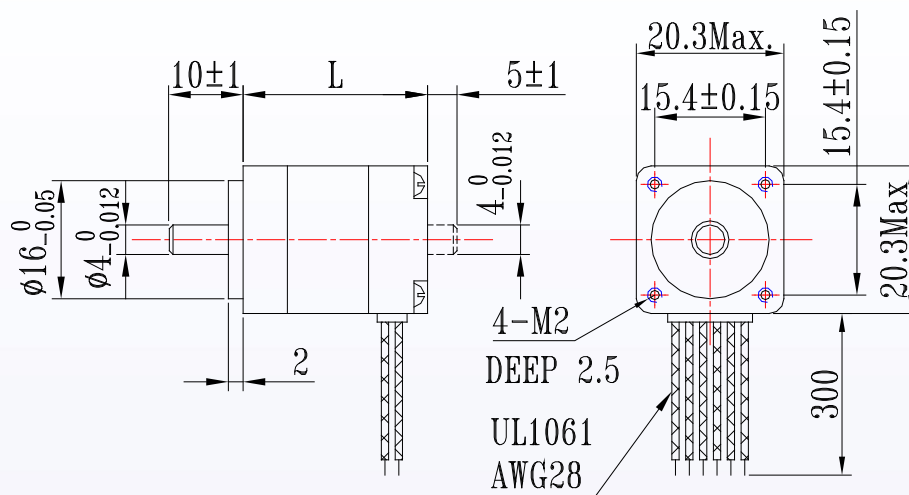
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C

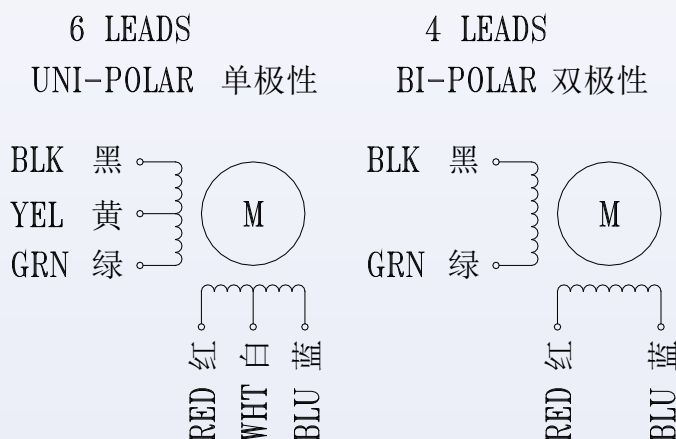
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m²	Kg	mm
20BYG001	20BYG001B	4.4	0.2	22	6.5	1.9	0.14	4	2.8	0.05	28
20BYG102	20BYG102B	3.5	0.35	10	1.0	1.4	0.1	6	3.0	0.06	30
20BYG201	20BYG201B	4.8	0.4	12	2.8	2.4	0.17	4	3.3	0.07	34
20BYG301	20BYG301B	7	0.35	20	2.8	2.8	0.2	6	4.5	0.10	46.5

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

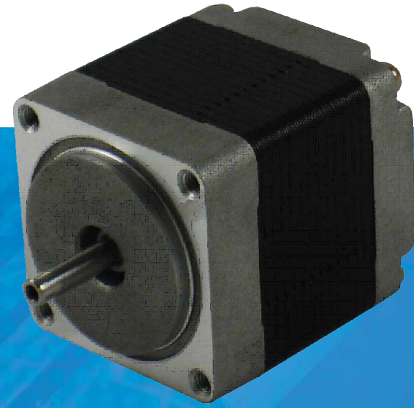
Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation



1.8° Size 28BYG

混合式步进电机 Hybrid Stepping Motor

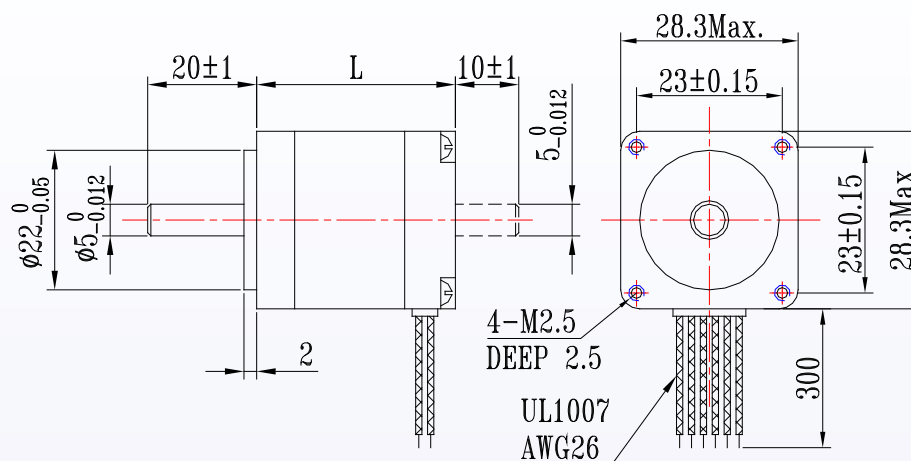
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step, no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max. (rated current, 2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

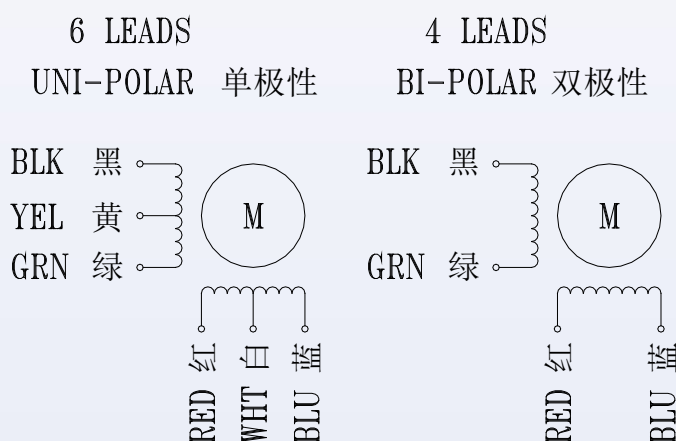
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m ²	Kg	mm
28BYG001	28BYG001B	3.0	1.0	3	2.2	13.2	0.95	4	11	0.13	40
28BYG002	28BYG002B	4.08	0.85	4.8	1.8	8.3	0.6	6			
28BYG201	28BYG201B	4.5	0.9	5.0	1.8	12.5	0.9	6	18	0.2	51
28BYG301	28BYG301B	3.75	0.67	5.6	4.0	9.7	0.7	4	9	0.11	32
28BYG303	28BYG303B	7.98	0.38	21	19	9.7	0.7	4			
28BYG501	28BYG501B	4.56	0.67	6.8	4.8	14.7	1.06	4	12	0.15	45
28BYG502	28BYG502B	6.0	0.6	10	8.3	14.7	1.06	4			

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

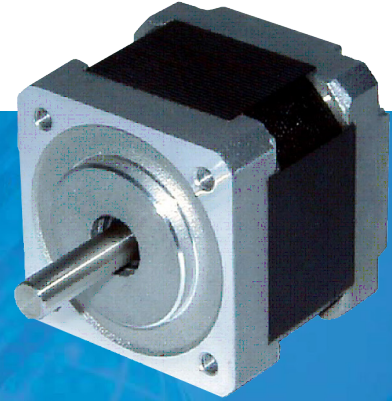
Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation



0.9° Size 35BYG

混合式步进电机 Hybrid Stepping Motor

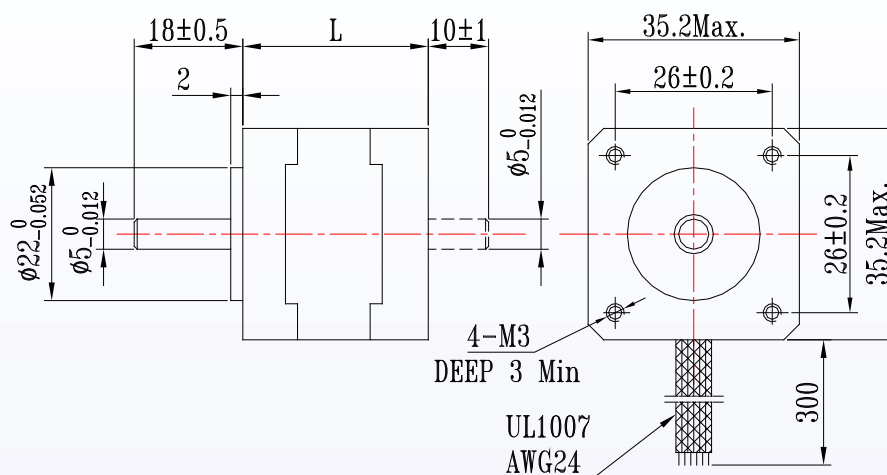
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

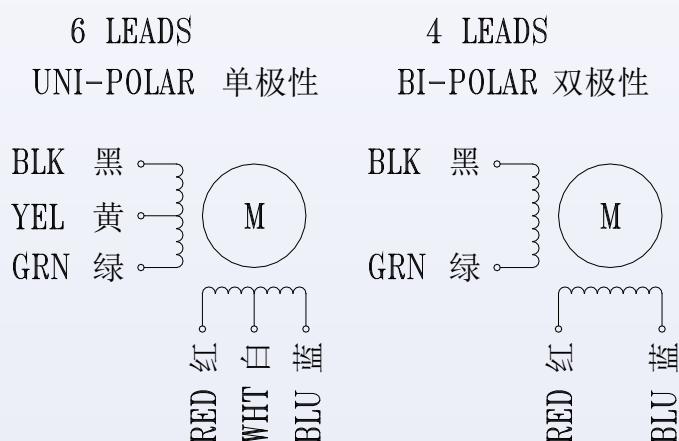
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m²	Kg	mm
35BYG9101	35BYG9101B	4.0	0.4	10	8.2	5.55	0.4	4	8	0.09	20
35BYG9106	35BYG9106B	6.25	0.25	25	14	5.55	0.4	4			
35BYG9201	35BYG9201B	5.0	0.5	10	12	15.28	1.1	4	10	0.12	28
35BYG9202	35BYG9202B	2.5	1.0	2.5	2.8	15.28	1.1	4			
35BYG9501	35BYG9501B	7.2	0.6	12	16	19.44	1.4	4	14	0.16	34

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

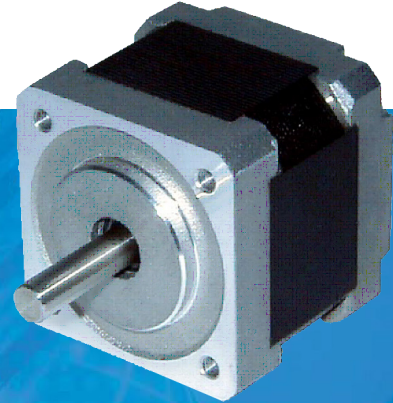
Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

1.8° Size 35BYG

混合式步进电机 Hybrid Stepping Motor



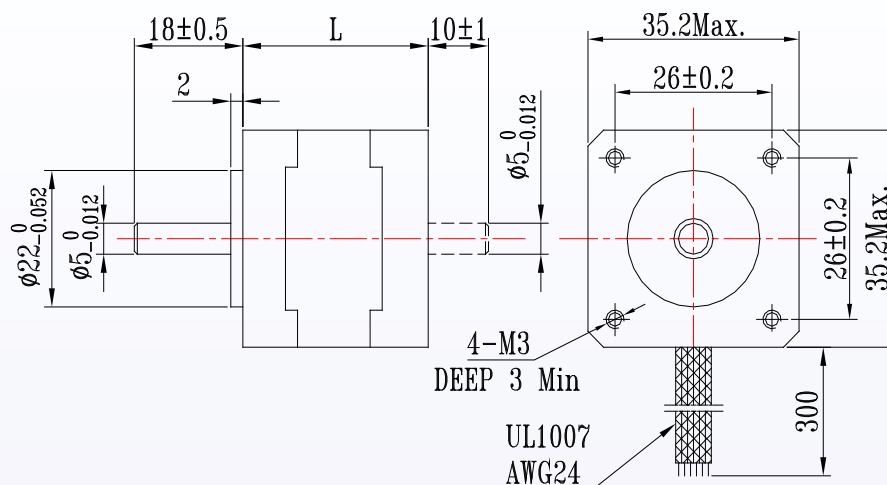
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

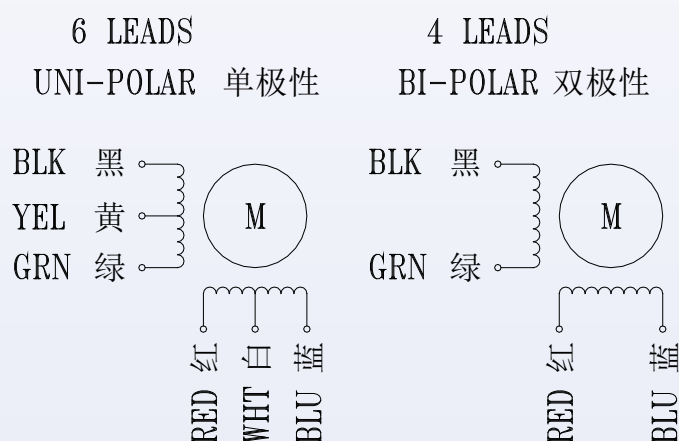
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m²	Kg	mm
35BYG101	35BYG101B	7.5	0.3	25	20	5.5	0.4	4	7	0.09	20
35BYG103	35BYG103B	4.5	0.5	9	5	5.5	0.4	4			
35BYG203	35BYG203B	6.24	0.48	13	8.8	9.0	0.65	4	10	0.11	26
35BYG208	35BYG208B	7.35	0.35	21	19	9.0	0.65	4			
35BYG304	35BYG304B	12	0.25	48	25	9.7	0.7	6	11	0.12	28
35BYG307	35BYG307B	3.12	1.3	2.4	2.5	13.88	1.0	4			
35BYG502	35BYG502B	10	0.4	25	17	13.88	1.0	6	14	0.16	34
35BYG504	35BYG504B	4.42	0.65	6.8	10	19.44	1.4	4			

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

Shaft : Flat, Pinion, Keyway, Length

引出线: 型号, 颜色, 长度, 连接装置等

Lead wire : Type, Color, Length, Connector Installation

0.9° Size 36BYG

混合式步进电机 Hybrid Stepping Motor

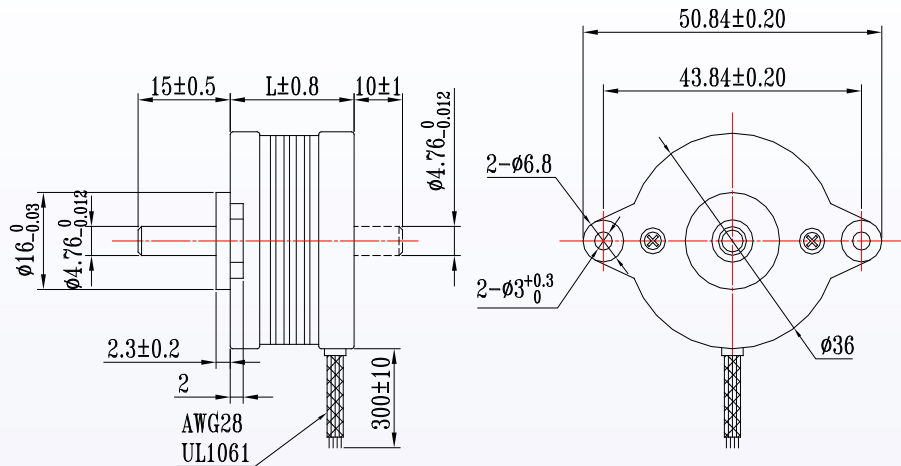
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

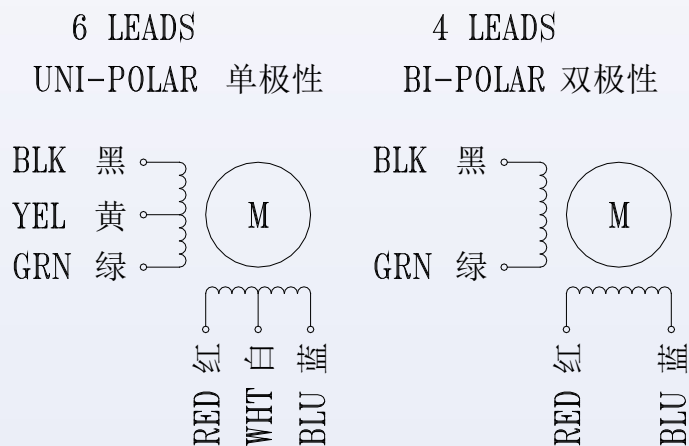
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m ²	Kg	mm
36BYG9001	36BYG9001B	5.88	0.35	168	8.5	4.86	0.35	4	3	0.05	12.35
36BYG9101	36BYG9101B	4.64	0.4	11.6	7.7	11.1	0.8	4	8	0.09	20

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

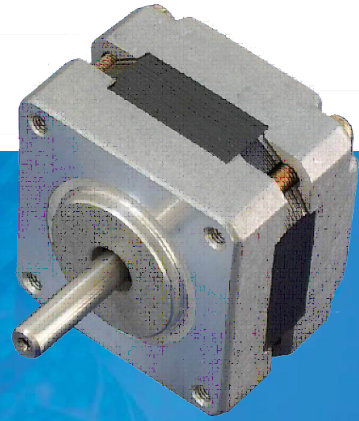
Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation



0.9° Size 39YG

混合式步进电机 Hybrid Stepping Motor

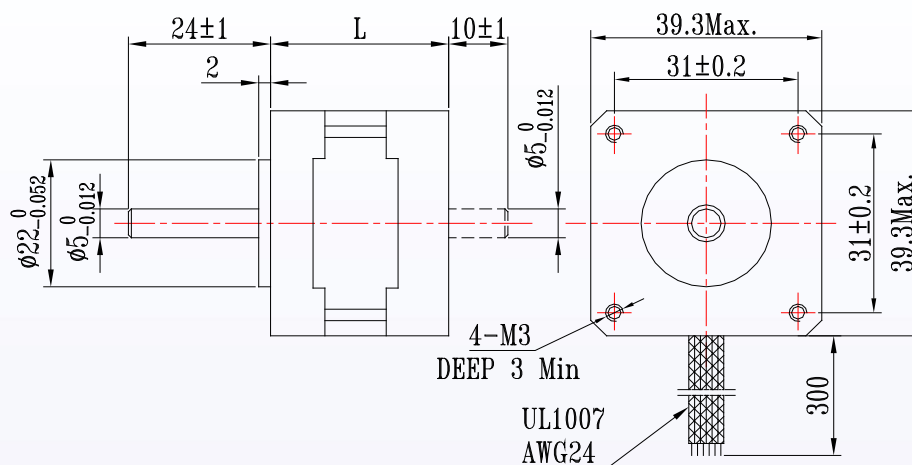
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

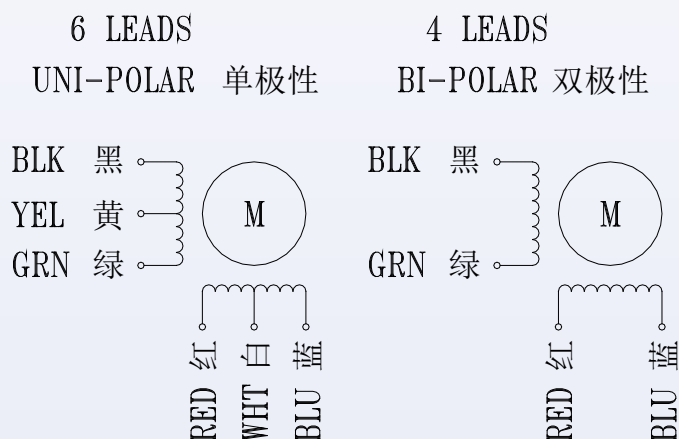
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m²	Kg	mm
39BYG9004	39BYG9004B	6	0.6	10	15	16.7	1.2	4	19.5	0.16	32
39BYG9104	39BYG9104B	4	0.5	8	9.5	11.1	0.8	4	12	0.11	20
39BYG9403	39BYG9403B	12	0.4	30	60	22.2	1.6	4	25	0.2	35
39BYG9404	39BYG9404B	7.8	0.6	13	26	22.2	1.6	4			
39BYG9703	39BYG9703B	9	0.6	15	26	30.6	2.2	4	43	0.28	46

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

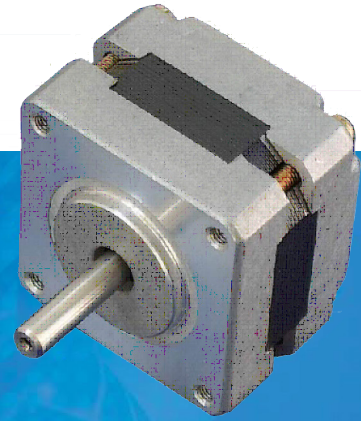
Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation



1.8° Size 39YG

混合式步进电机 Hybrid Stepping Motor

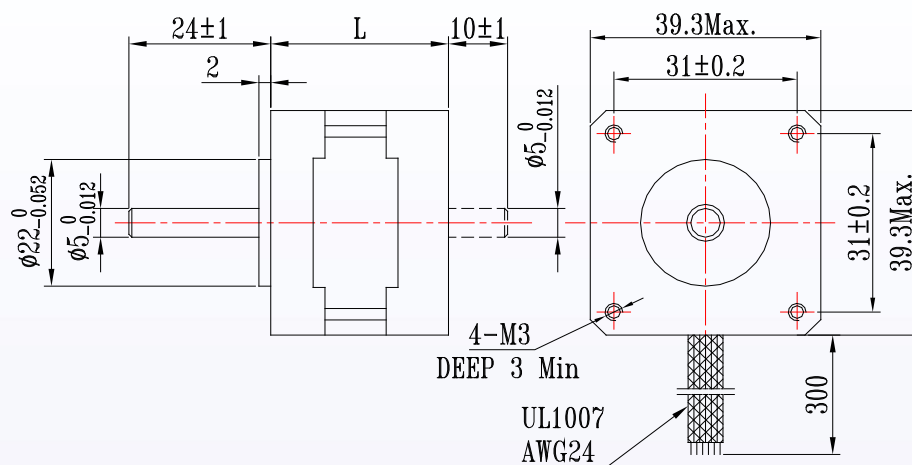
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

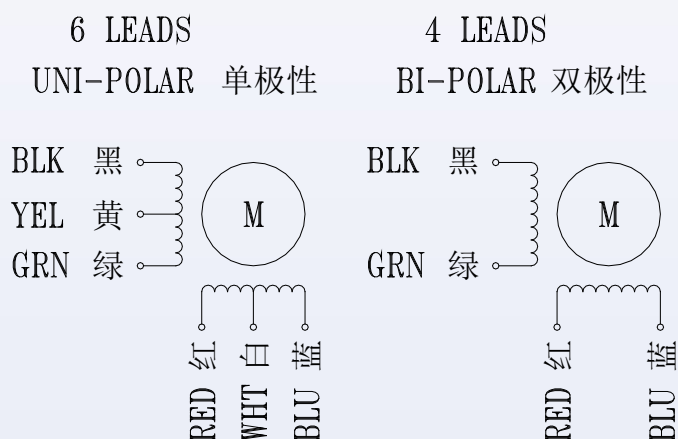
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m²	Kg	mm
39BYG108	39BYG108B	3.63	0.55	6.6	7.5	11.1	0.8	4	11	0.11	20
39BYG111	39BYG111B	5.6	0.4	14	6.4	8.33	0.6	6			
39BYG313	39BYG313B	3.36	0.8	4.2	3	15.3	1.1	6	18	0.16	32
39BYG318	39BYG318B	2.8	1.0	2.8	4.5	22.2	1.6	4			
39BYG404	39BYG404B	14	0.4	35	40	30.5	2.2	4	23	0.2	35
39BYG425	39BYG425B	6.0	0.8	7.5	6.5	22.2	1.6	6			
39BYG507	39BYG507B	4.0	1.0	4.0	7.0	34.7	2.5	4	28	0.22	38
39BYG513	39BYG513B	8.55	0.57	15	25	34.7	2.5	4			
39BYG701	39BYG701B	11	0.5	22	27	38.9	2.8	4	38	0.28	46

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

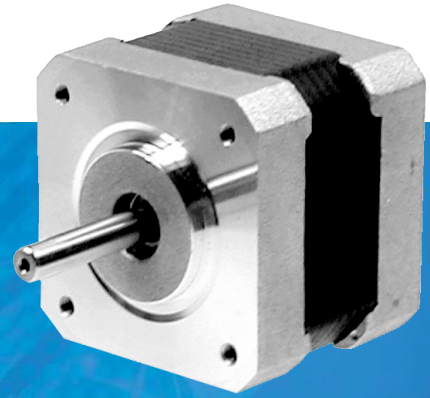
Shaft : Flat, Pinion, Keyway, Length

引出线: 型号, 颜色, 长度, 连接装置等

Lead wire : Type, Color, Length, Connector Installation

1.8° Size 42BYG

混合式步进电机 Hybrid Stepping Motor



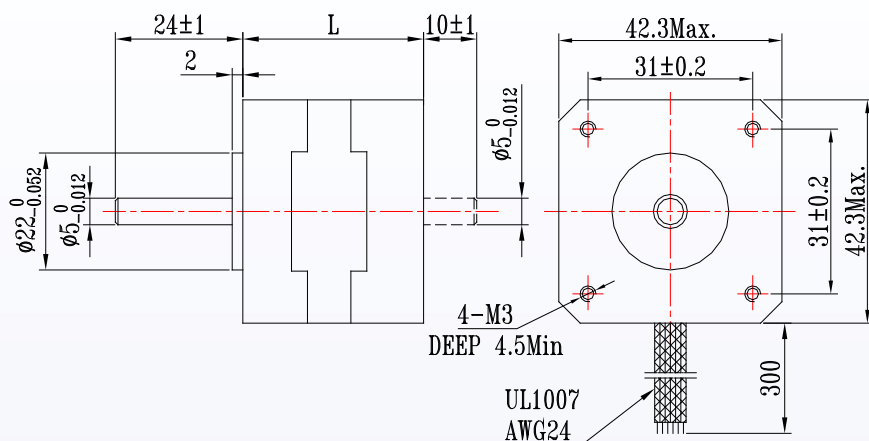
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

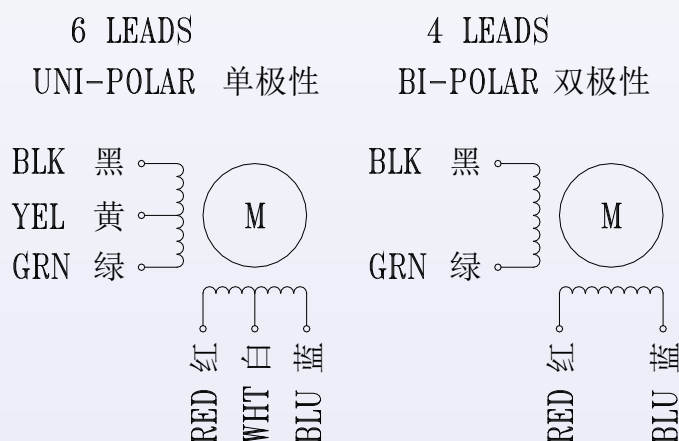
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m²	Kg	mm
42BYG015	42BYG015B	12	0.3	39	19	16	1.15	6	20	0.2	34
42BYG023	42BYG023B	12	0.4	30	42	27.78	2.0	4			
42BYG228	42BYG228B	12	0.4	30	25	27.78	2.0	6	22	0.24	38
42BYG304	42BYG304B	12	0.3	40	85	38.88	2.8	4	30	0.26	44
42BYG401	42BYG401B	6	0.8	7.5	5	33.33	2.4	6	0.36	0.29	48

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

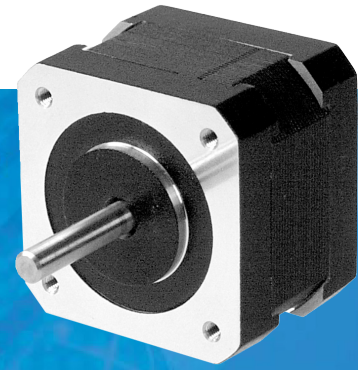
Shaft : Flat, Pinion, Keyway, Length

引出线: 型号, 颜色, 长度, 连接装置等

Lead wire : Type, Color, Length, Connector Installation

0.9° Size 42BYG

混合式步进电机 Hybrid Stepping Motor



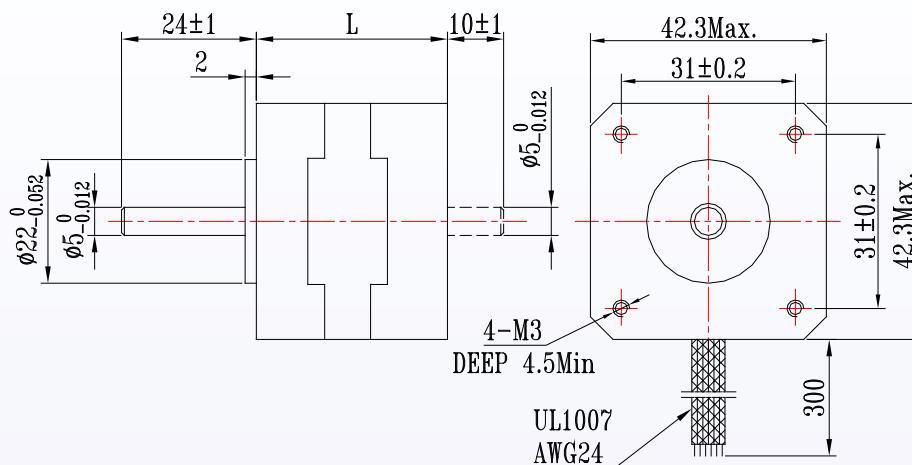
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

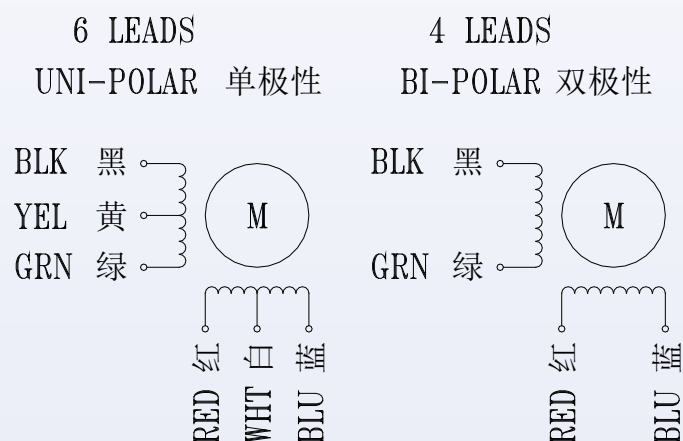
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m ²	Kg	mm
42BYG9001	42BYG9001B	4	0.95	4.2	3.2	22	1.58	6	38	0.22	34
42BYG9013	42BYG9013B	6	0.6	10	9.5	22	1.58	6			
42BYG9017	42BYG9017B	6.6	0.55	12	25	30	2.2	4			
42BYG9031	42BYG9031B	2.8	1.33	2.1	2.5	30	2.2	4			
42BYG9102	42BYG9102B	2.8	1.68	1.65	3.8	50	3.6	4	55	0.28	40
42BYG9110	42BYG9110B	6	0.8	7.5	10	36	2.59	6			
42BYG9115	42BYG9115B	4	1.2	3.3	4.1	36	2.59	6			
42BYG9121	42BYG9121B	5.4	0.9	6	12	50	3.6	4			
42BYG9403	42BYG9403B	4.2	1.2	3.5	8.5	62	4.4	4	80	0.35	48
42BYG9404	42BYG9404B	2.8	1.68	1.65	4.8	62	4.4	4			
42BYG9407	42BYG9407B	6	0.8	7.5	9.2	44	3.17	6			
42BYG9417	42BYG9417B	4	1.2	3.3	3.5	44	3.17	6			

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

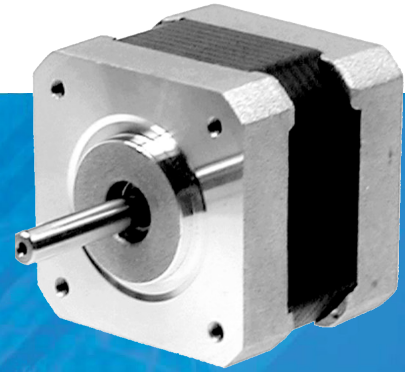
Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

1.8° Size 42BYGH

混合式步进电机 Hybrid Stepping Motor



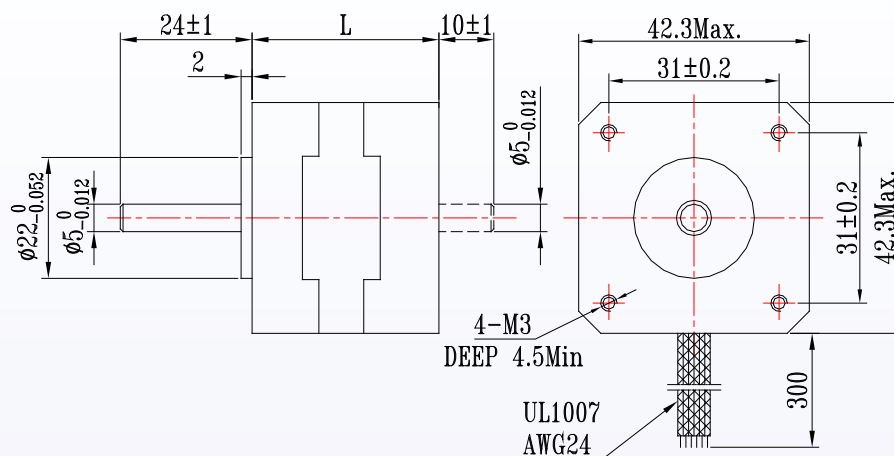
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

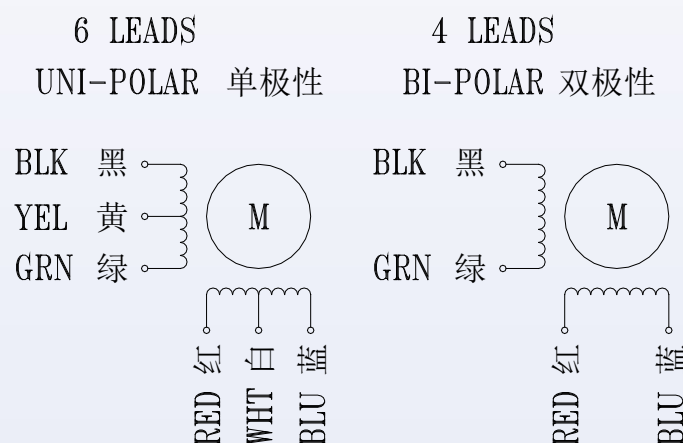
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m²	Kg	mm
42BYGH010	42BYGH010B	1.65	1.5	1.1	1.6	32	2.3	4	38	0.2	34
42BYGH013	42BYGH013B	4.0	0.95	4.2	2.5	22	1.58	6			
42BYGH019	42BYGH019B	3.4	0.95	3.6	6.06	32	2.3	4			
42BYGH054	42BYGH054B	8.2	0.6	13.6	7.8	22	1.58	6			
42BYGH102	42BYGH102B	3.6	1.2	3.0	3.2	36	2.59	6	55	0.24	40
42BYGH113	42BYGH113B	5.4	0.85	6.3	10	50	3.6	4			
42BYGH114	42BYGH114B	6.0	0.8	7.5	6.7	36	2.59	6			
42BYGH150	42BYGH150B	2.8	1.68	1.65	3.2	50	3.6	4			
42BYGH405	42BYGH405B	5.3	0.85	6.2	11	62	4.4	4	80	0.32	48
42BYGH416	42BYGH416B	6.0	0.8	7.5	6.3	44	3.17	6			
42BYGH432	42BYGH432B	4.0	1.2	3.3	2.8	44	3.17	6			
42BYGH450	42BYGH450B	2.8	1.68	1.65	2.8	62	4.4	4			

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

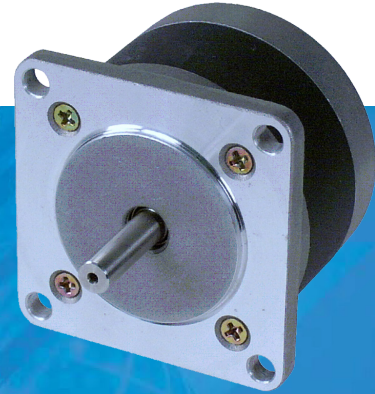
Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

1.8° Size 57BYG

混合式步进电机 Hybrid Stepping Motor



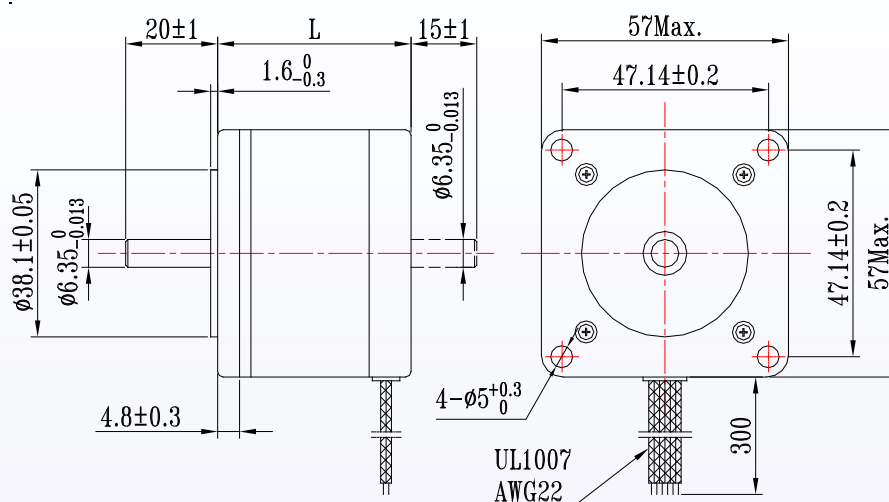
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

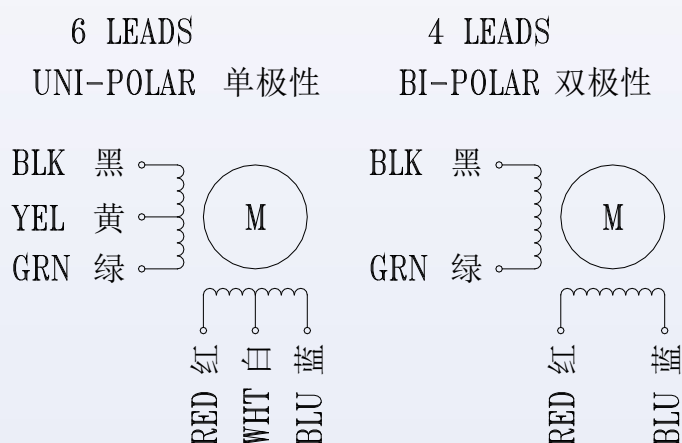
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m²	Kg	mm
57BYG402	57BYG402B	1.8	2.4	0.75	1.3	56	4	4	60	0.45	42
57BYG415	57BYG415B	10.8	0.45	24	25	40	2.88	6			
57BYG417	57BYG417B	2.3	1.5	1.5	1.6	40	2.88	6			
57BYG503	57BYG503B	5.1	1.0	5.1	7	69	4.97	6	118	0.6	52
57BYG508	57BYG508B	2.8	2.0	1.4	1.8	69	4.97	6			
57BYG513	57BYG513B	2.1	2.5	0.85	2.5	96	6.9	4			
57BYG608	57BYG608B	3.4	2.1	1.6	2.6	84	6.05	6	135	0.65	57
57BYG610	57BYG610B	3	2.5	1.2	4	117	8.4	4			
57BYG619	57BYG619B	2.5	3.5	0.7	1.7	117	8.4	4			
57BYG702	57BYG702B	3	3.0	1	4.6	167	12	4	230	1.0	77
57BYG706	57BYG706B	5.4	1.5	3.6	7.8	125	9	6			

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

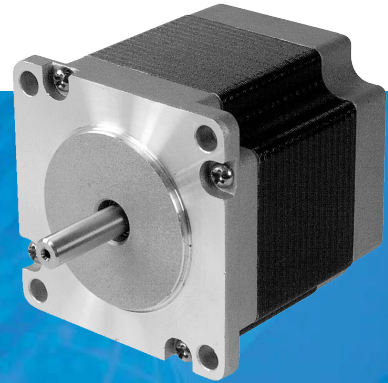
Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

0.9° Size 57BYGH

混合式步进电机 Hybrid Stepping Motor



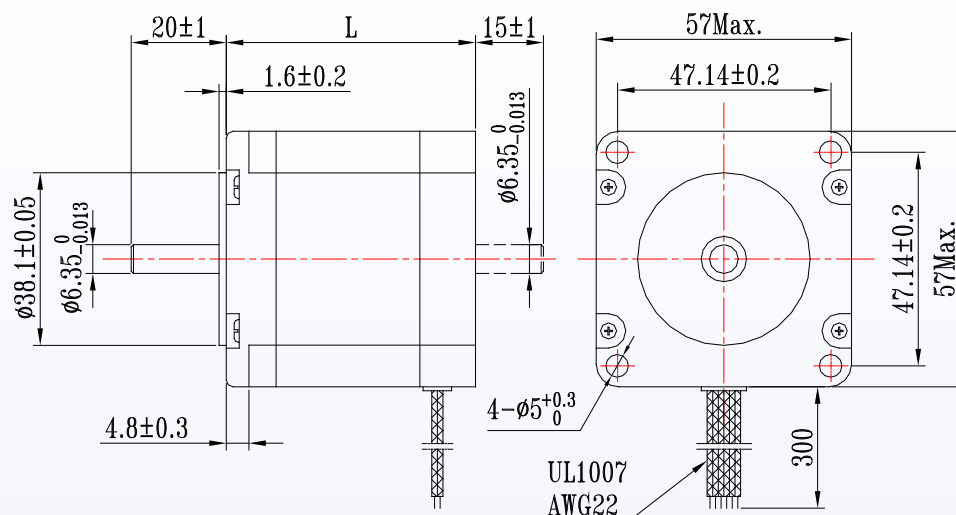
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

■ 技术规格 Technique Specification

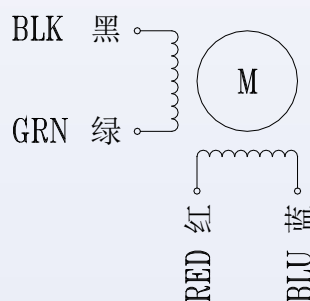
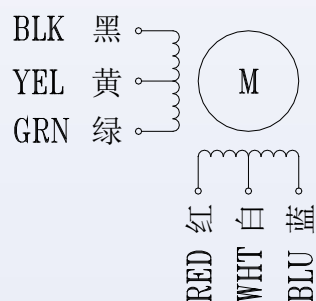
型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m ²	Kg	mm
57BYGH9403	57BYGH9403B	4.06	1.4	2.9	8.5	76	5.5	4	120	0.45	42
57BYGH9404	57BYGH9404B	7.98	0.7	11.4	34	76	5.5	4			
57BYGH9405	57BYGH9405B	5.7	1.0	5.7	8.5	54	3.9	6			
57BYGH9503	57BYGH9503B	2.32	2.8	0.83	3.5	100	7.2	4	275	0.65	52
57BYGH9505	57BYGH9505B	4.62	1.4	3.3	14	100	7.2	4			
57BYGH9506	57BYGH9506B	3.3	2	1.65	3.5	69	5.0	6			
57BYGH9605	57BYGH9605B	2.24	2.8	0.8	4.5	111	8.0	4	300	0.7	56
57BYGH9610	57BYGH9610B	4.48	1.4	3.2	18	111	8.0	4			
57BYGH9611	57BYGH9611B	3.2	2	1.6	4.5	76	5.5	6			
57BYGH9704	57BYGH9704B	8.6	1.0	8.6	23	180	13	6	480	1	76
57BYGH9715	57BYGH9715B	6.02	1.4	4.3	23	250	18	4			
57BYGH9716	57BYGH9716B	12.04	0.7	17.2	92	250	18	4			

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram

6 LEADS 4 LEADS
UNI-POLAR 单极性 BI-POLAR 双极性



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

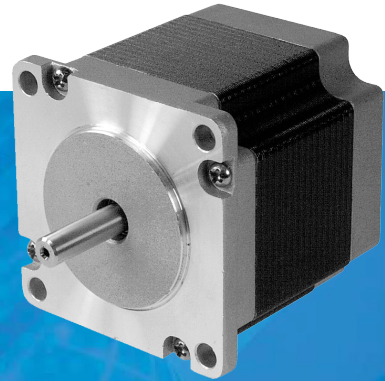
Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

1.8° Size 57BYGH

混合式步进电机 Hybrid Stepping Motor



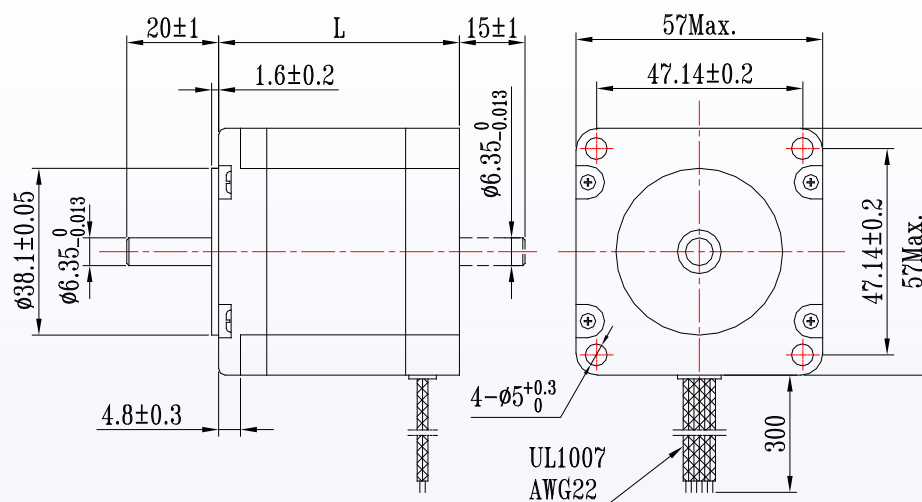
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

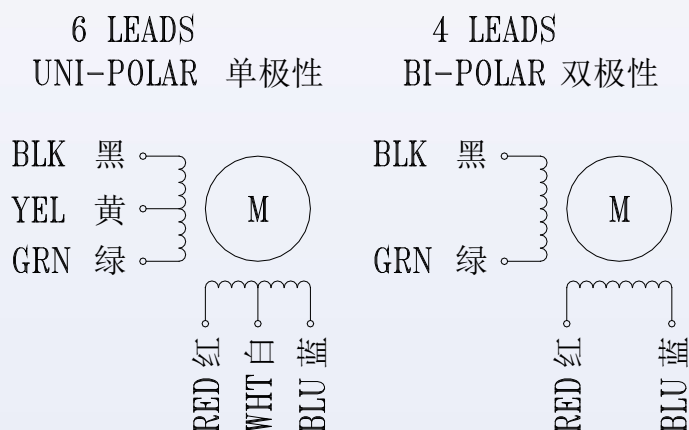
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-c m ²	Kg	mm
57BYGH414	57BYGH414B	2.8	2	1.4	1.4	54	3.9	6	120	0.45	42
57BYGH416	57BYGH416B	2	2.8	0.7	1.4	76	5.5	4			
57BYGH422	57BYGH422B	5.7	1	5.7	5.4	54	3.9	6			
57BYGH516	57BYGH516B	2.2	3	0.74	1.1	100	7.2	6	275	0.65	52
57BYGH518	57BYGH518B	2.3	2.8	0.83	3.0	139	10	4			
57BYGH520	57BYGH520B	3.3	2	1.65	3.0	100	7.2	6			
57BYGH603	57BYGH603B	3.6	2	1.8	3.7	125	9	6	300	0.7	56
57BYGH614	57BYGH614B	2.5	2.8	0.9	3.7	174	12.5	4			
57BYGH658	57BYGH658B	2.3	3	0.75	1.4	125	9	6			
57BYGH701	57BYGH701B	3.2	2.8	1.13	5.4	262	18.9	4	480	1	76
57BYGH702	57BYGH702B	3	3	1	2.2	187	13.5	6			
57BYGH703	57BYGH703B	4.5	2	2.25	5.4	187	13.5	6			

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

1.8° Size 86BYG

混合式步进电机 Hybrid Stepping Motor



■ 技术参数 General Specification

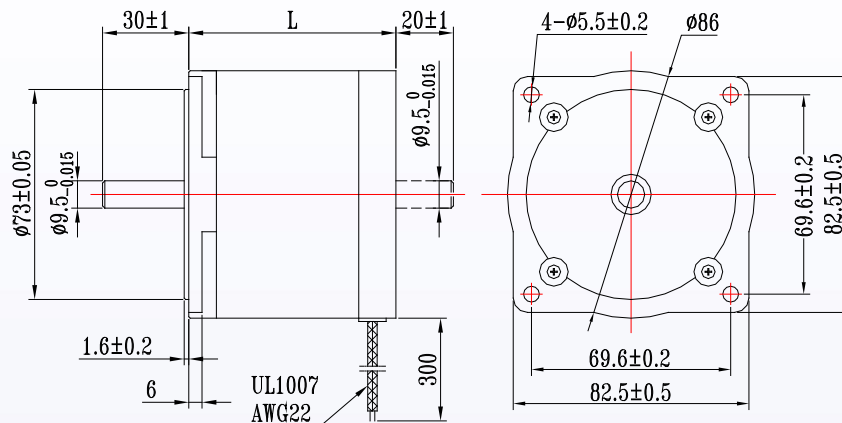
项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

■ 技术规格 Technique Specification

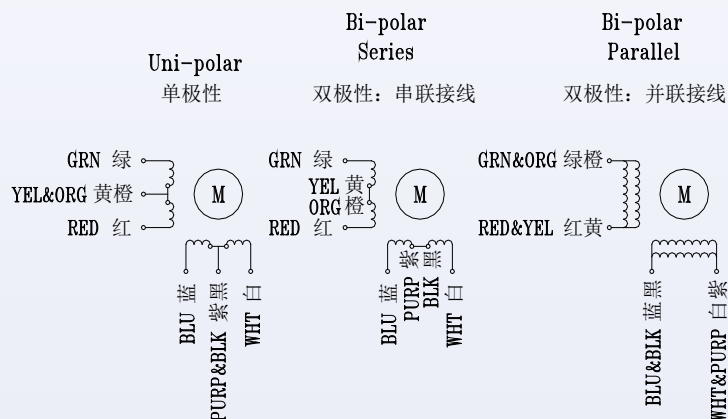
型号 Model NO.	引出线 # of Lead	连线方式 Connection		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
		Uni-P.	Bi-Polar	V	A	Ω	mH	Oz-in	Kg-cm	g-c m ²	Kg	mm
86BYG103-8A	8	*		3.38	1.8	1.88	7	194	14	620	1.6	62
			S	4.7	1.25	3.76	28	278	20			
			P	2.35	2.5	0.94	7	278	20			
86BYG205-8A	8	*		3	4	0.75	3.5	389	28	1200	2.2	90
			S	4.2	2.8	1.5	14	555	40			
			P	2.1	5.6	0.375	3.5	555	40			
86BYG403-8A	8	*		5	1.25	4	17	333	24	760	1.7	69
			S	7.2	0.9	8	68	472	34			
			P	3.6	1.8	2	17	472	34			
86BYG502-8A	8	*		3.36	2.8	1.2	4.8	315	22.6	900	1.8	75
			S	4.8	2	2.4	19.2	444	32			
			P	2.4	4	0.6	4.8	444	32			

Notes: Uni-P. = Uni-Polar; S = Series; P = Parallel

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

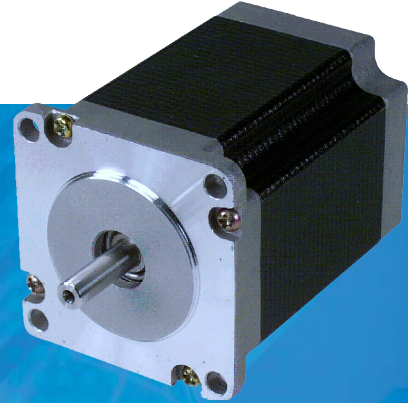
Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

1.8° Size 86BYGH

混合式步进电机 Hybrid Stepping Motor



■ 技术参数 General Specification

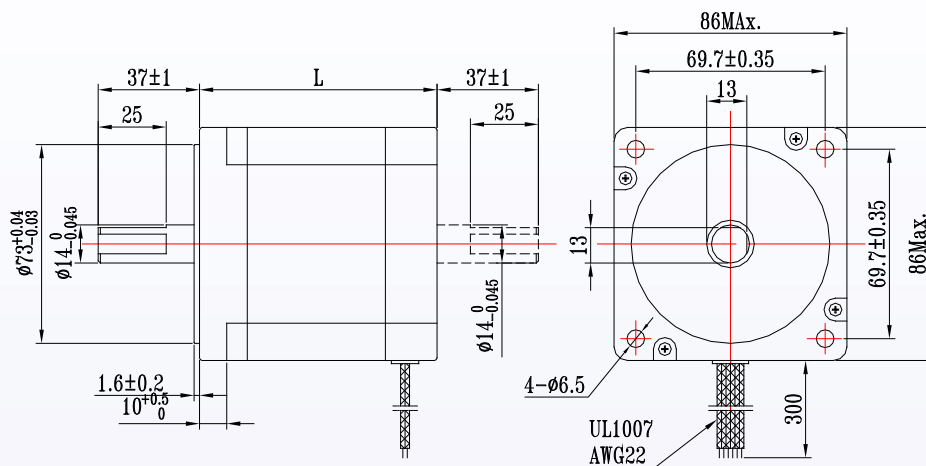
项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

■ 技术规格 Technique Specification

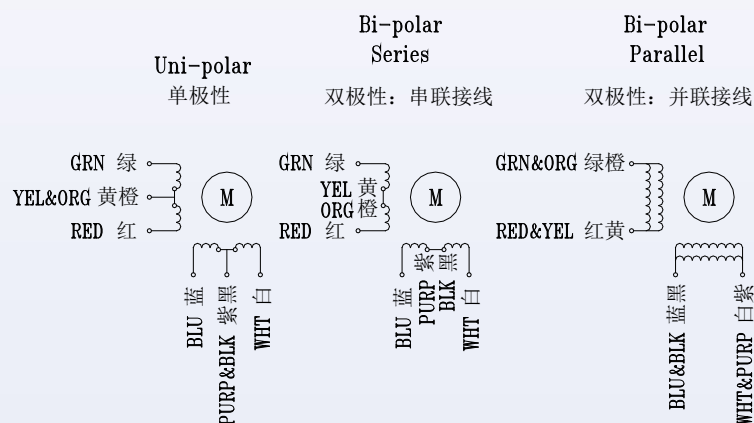
型号 Model NO.	引出线 # of Lead	连线方式 Connection		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
		Uni-P.		V	A	Ω	mH	Oz-in	Kg-cm	g-c m²	Kg	mm
86BYGH101-8A	8	*		4.2	3.5	1.2	4.5	555	40	2300	3.2	97
			S	6	2.5	2.4	18	778	56			
			P	3	5	0.6	4.5	778	56			
86BYGH450-8A	8	*		4.6	2	2.3	10	305	22	1400	2.2	76
			S	6.44	1.4	4.6	40	430	31			
			P	3.22	2.8	1.15	10	430	31			
86BYGH450A-8A	8	*		3.38	4.5	0.75	4.6	611	44	2700	3.7	113
			S	4.8	3.2	1.5	18.4	861	62			
			P	2.4	6.4	0.38	4.6	861	62			
86BYGH450B-8A	8	*		5.04	4.2	1.2	7.5	889	64	4000	5.2	151
			S	7.2	3.0	2.4	30	1250	90			
			P	3.6	6.0	0.6	7.5	1250	90			

Notes: Uni-P. = Uni-Polar; S = Series; P = Parallel

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

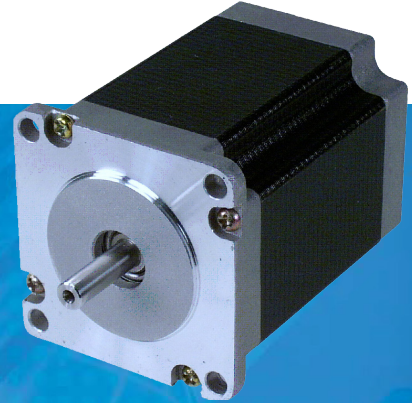
Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

1.8° Size 110BYGH

混合式步进电机 Hybrid Stepping Motor



■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

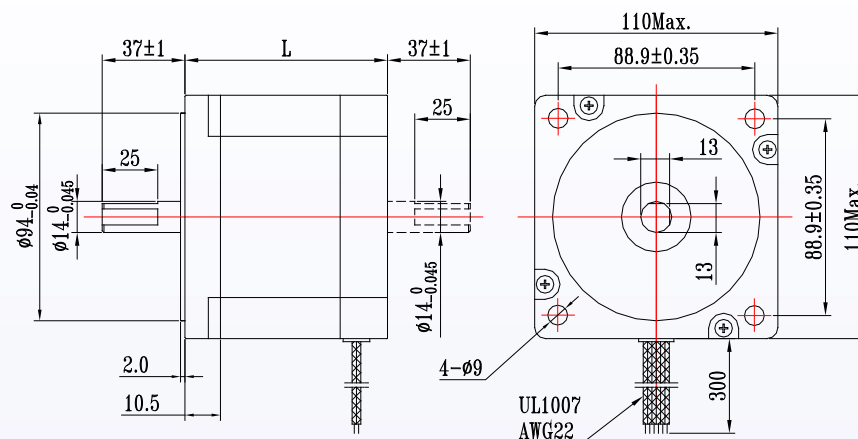
■ 技术规格 Technique Specification

型号 Model NO.	引出线 # of Lead	连线方式 Connection		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
		Uni-P.		V	A	Ω	mH	O z - in	Kg-cm	g-c m²	Kg	mm
110BYGH011-8A	8	*		5.04	5.6	0.9	6.3	1180	85	4300	4.5	80
			S	7.2	4	1.8	25	1666	120			
			P	3.6	8	0.45	6.3	1666	120			
110BYGH201-8A	8	*		7.39	4.2	1.76	13.2	972	70	5500	5.0	98
			S	10.21	2.9	3.52	52.8	1360	98			
			P	5.19	5.9	0.88	13.2	1360	98			
110BYGH401-8A	8	*		7.8	6.0	1.3	13.4	1944	140	11000	8.4	146
			S	10.92	4.2	2.6	53.6	2722	196			
			P	5.46	8.4	0.65	13.4	2722	196			

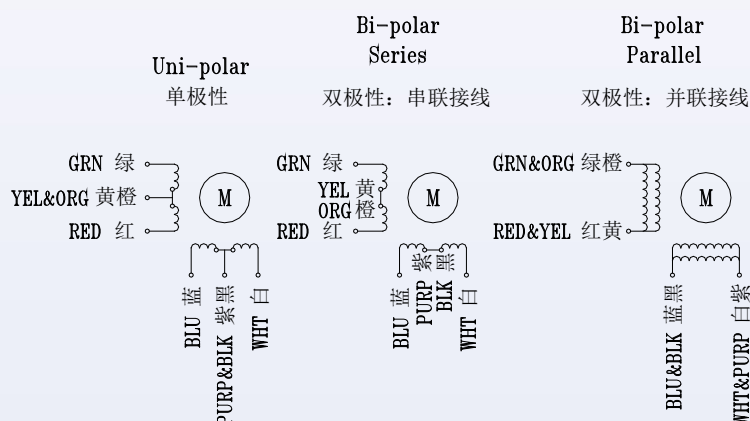
Notes: Uni-P. = Uni-Polar; S = Series; P = Parallel

1.8° Size 110BYGH | 混合式步进电机 Hybrid Stepping Motor

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

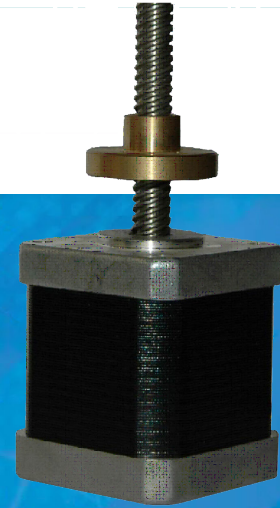
Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

1.8° Size 42BYGH

螺纹电机 Thread Motor



■ 技术参数 General Specification

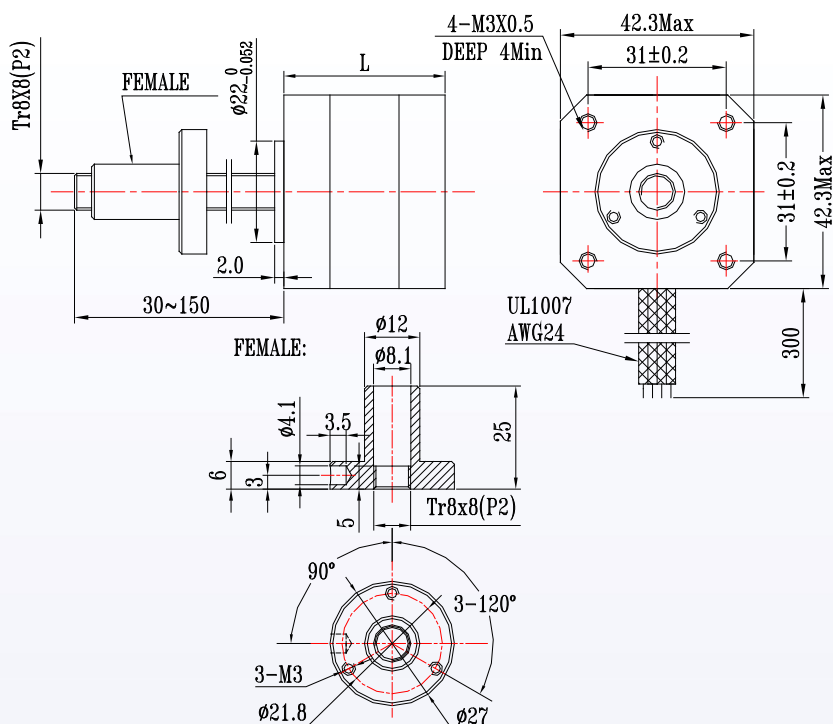
项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

■ 技术规格 Technique Specification

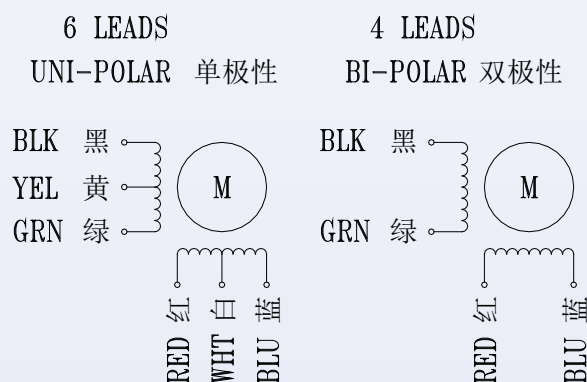
型号 Model NO.	电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		最大推力 Push Torque	步长 Linear Travel Per step	引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
	V	A	Ω	mH	Oz-in	Kg-cm	Kg	mm		g-c m ²	Kg	mm
42BYGHN034-TL	13.2	0.4	33	40	38	2.8	23	0.01	4	35	0.22	34
42BYGHN093-TL	2.7	1.8	1.5	2.0	38	2.8			4			
42BYGHN107-TL	12	0.4	30	25	36	2.59			6	54	0.28	40
42BYGHN163-TL	6.0	0.8	7.5	15	50	3.6			4			
42BYGHN416-TL	6.0	0.8	7.5	6.3	44	3.17			6	68	0.35	48
42BYGHN450-TL	2.8	1.68	1.65	2.8	62	4.4			4			

1.8° Size 42BYGH | 螺纹电机 Thread Motor

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

1.8° Size 57BYGH

螺纹电机 Thread Motor

■ 技术参数 General Specification

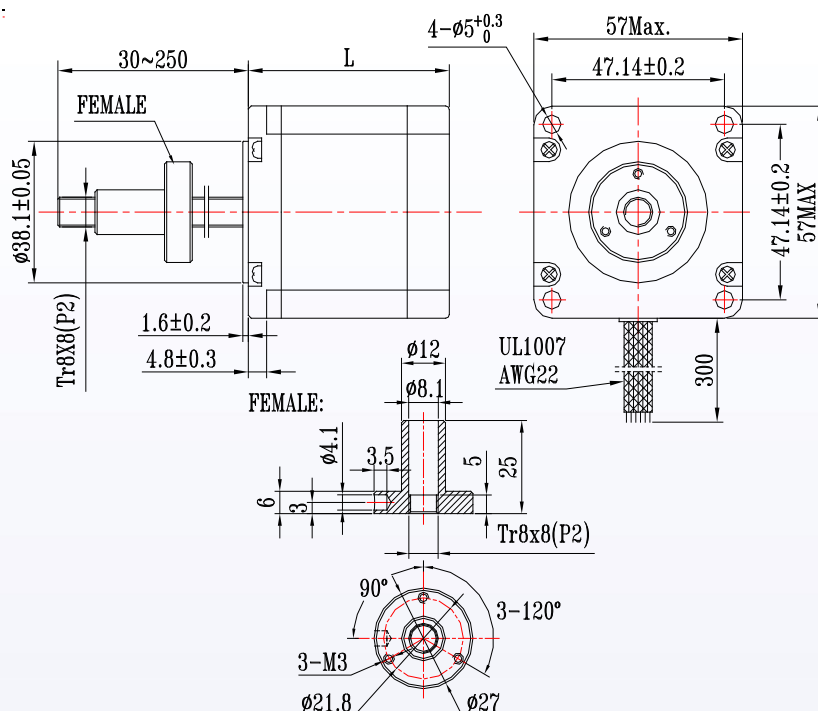
项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

■ 技术规格 Technique Specification

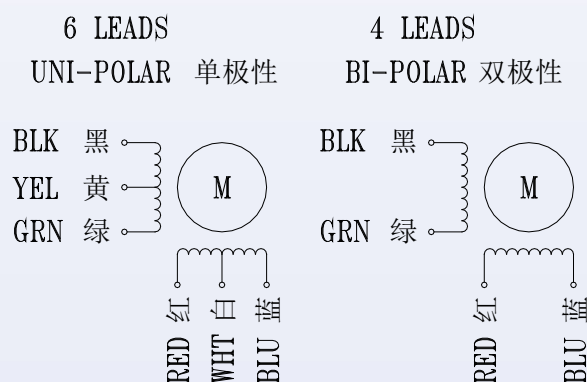
型号 Model NO.	电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		最大推力 Push Torque	步长 Linear Travel Per step	引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
	V	A	Ω	mH	Oz-in	Kg-cm	Kg	mm		g-c m ²	Kg	mm
57BYGH414-TL	2.8	2	1.4	1.4	54	3.9	91	0.01	6	120	0.45	42
57BYGH518-TL	2.3	2.8	0.83	3.0	140	10			4	275	0.65	52
57BYGH614-TL	2.5	2.8	0.9	3.7	175	12.5			4	300	0.7	56
57BYGH702-TL	3	3	1	2.2	187	13.5			6	480	1	77

1.8° Size 57BYGH | 螺纹电机 Thread Motor

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation



42mm Gear Box for Size 42BYGH 混合式电机 Hybrid Motor

■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

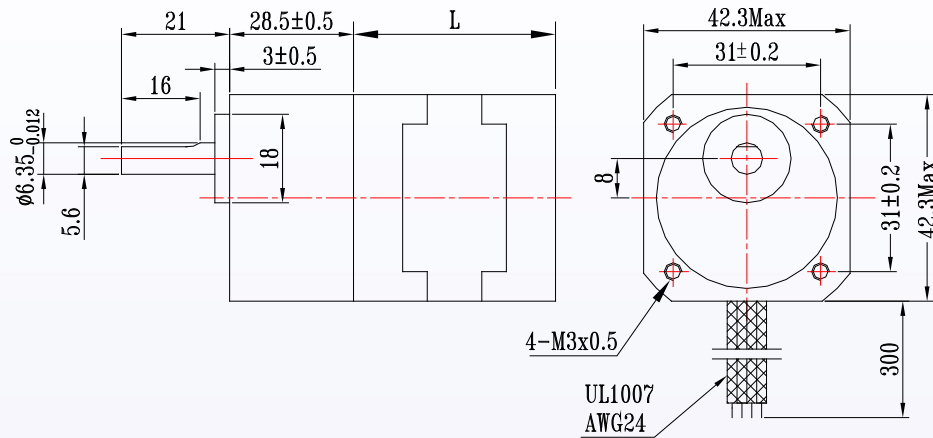
■ 技术规格 Technique Specification

型号 Model NO.	电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	输出力矩 Output Torque		最大静力矩 Holding Torque		引出线 # of Leads	步距角 Step Angle	减速比 Gear ratio	电机长度 L
	V	A	Ω	mH	Oz-in	Kg-cm	Oz-in	K g - cm		Full Step		mm
42BYGH010-G36	1.65	1.5	1.1	1.6	747	53.8	32	2.3	4	0.050°	36	34
42BYGH102-G18	3.6	1.2	3	3.2	453	32.6	36	2.59	6	0.100°	18	40
42BYGH113-G10	5.4	0.85	6.3	10	400	28.8	50	3.6	4	0.180°	10	40
42BYGH405-G7.2	5.3	0.85	6.2	11	352	25.3	62	4.4	4	0.250°	7.2	48
42BYGH416-G3.6	6.0	0.8	7.5	6.3	127	9.13	44	3.17	6	0.500°	3.6	48
42BYG9001-G10	4.0	0.95	4.2	3.2	176	12.6	22	1.58	6	0.090°	10	34
42BYG9102-G5	2.8	1.68	1.65	3.8	200	14.4	50	3.6	4	0.180°	5	40
42BYG9404-G3.6	2.8	1.68	1.65	4.8	176	12.7	62	4.4	4	0.250°	3.6	48

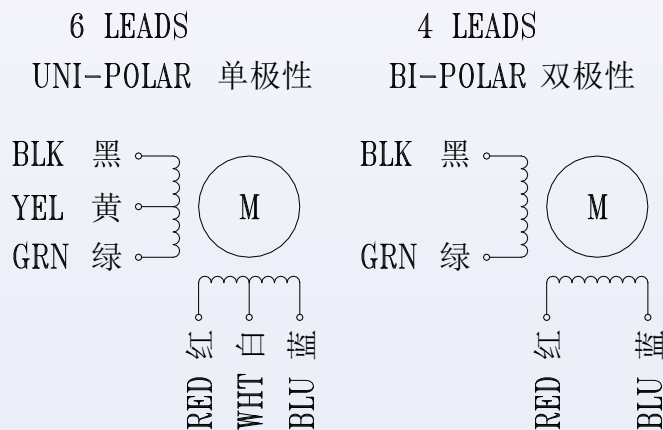
注：可选用不同电机和齿轮减速器

Note: Different motor and Gear box combinations are available

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

60mm Gear Box for Size 57BYGH 混合式电机 Hybrid Motor



■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step, no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max. (rated current, 2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

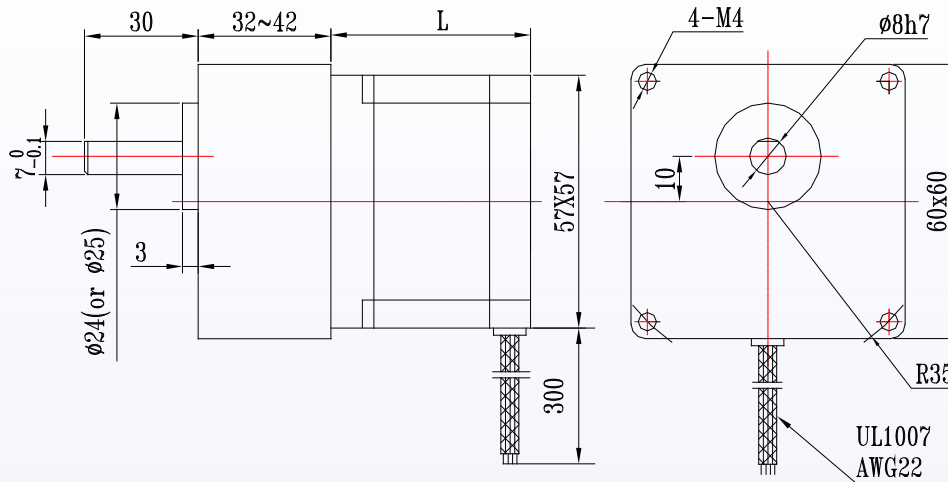
■ 技术规格 Technique Specification

型号 Model NO.	电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	输出力矩 Output Torque		最大静力矩 Holding Torque		引出线 # of Leads	步距角 Step Angle	减速比 Gear ratio	电机长度 L
	V	A	Ω	mH	Oz-in	Kg-cm	Oz-in	Kg-cm		Full Step		mm
57BYGH422-G36	5.7	1	5.7	5.4	1423	102.5	54	3.9	6	0.050°	36	42
57BYGH516-G30	2.2	3	0.74	1.1	2190	157.5	100	7.2	6	0.060°	30	52
57BYGH603-G20	3.6	2	1.8	3.7	1825	131.4	125	9	6	0.090°	20	56
57BYGH701-G18	3.2	2.8	1.13	5.4	3827	275.6	262	18.9	4	0.100°	18	76
57BYG9503-G10	2.32	2.8	0.83	3.5	810	58.3	100	7.2	4	0.090°	10	52
57BYG9605-G5	2.24	2.8	0.8	4.5	450	32.4	111	8.0	4	0.180°	5	56
57BYG9704-G3.6	8.6	1.0	8.6	23	526	38	180	13	6	0.250°	3.6	76

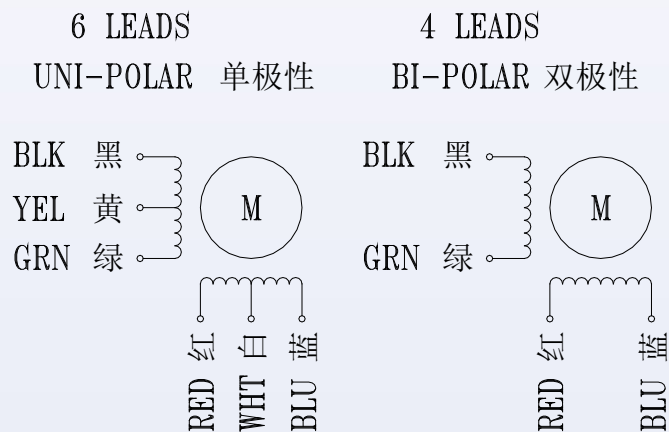
注：可选用不同电机和齿轮减速器

Note: Different motor and Gear box combinations are available

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

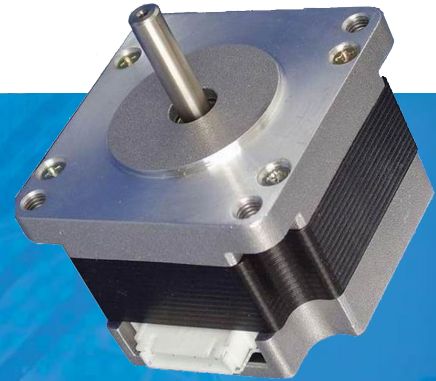
转轴：扁丝，齿轮，键槽，轴伸长度等

Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

1.2° Size 60BYGH 3-Phase 混合式步进电机 Hybrid Stepping Motor



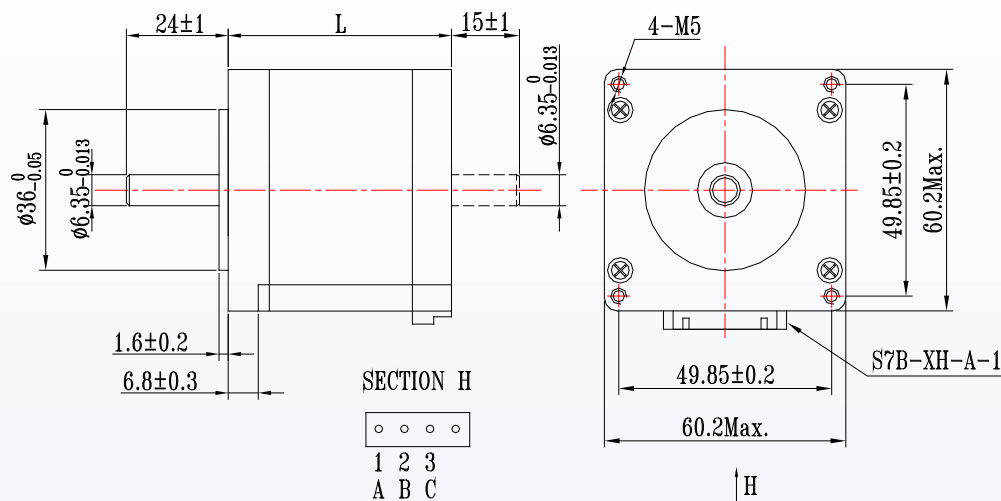
■ 技术参数 General Specification

项目 Item	性能 Specification
步距角精度 Step Angle Accuracy	±5% (full step,no load)
电阻精度 Resistance Accuracy	±10%
电感精度 Inductance Accuracy	±20%
温升 Temperature Rise	80°C Max.(rated current,2 phase on)
环境温度 Ambient Temperature	-10°C ~ +50°C
绝缘等级 Insulation Class	B
介电强度 Dielectric Strength	500 VAC for one minute
转轴径向跳动 Shaft Radial Play	0.06 Max. (450g-load)
转轴轴向跳动 Shaft Axial Play	0.08 Max. (450g-load)

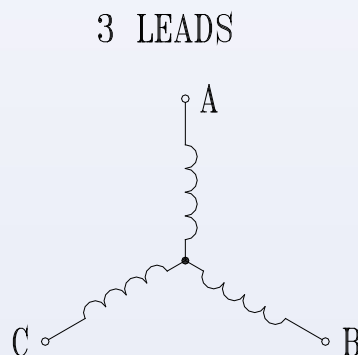
■ 技术规格 Technique Specification

型号 Model NO.		电压 Rated voltage	电流 Current	电阻 Resistance	电感 Inductance	最大静力矩 Holding Torque		引出线 # of Leads	转动惯量 Rotoe Inertia	重量 Weight	机身长度 Length
单出轴 Single Shaft	双出轴 Double Shaft	V	A	Ω	mH	Oz-in	K g - cm		g-c m²	Kg	mm
60BYGH101W	60BYGH101W-B	6.97	1.7	4.1	7.4	62.5	4.5	3	170	0.5	42
60BYGH603W	60BYGH603W-B	7.5	1.5	5	10	113.9	8.2	3	280	0.7	56
60BYGH6201W	60BYGH6201W-B	2.1	3	0.7	2	216.7	15.6	3	530	0.9	85
60BYGH902W	60BYGH902W-B	1.72	5.2	0.33	0.55	236	17	3	570	1.0	90

■ 机械尺寸 Dimensions (Unit = mm)



■ 绕线图 Wiring Diagram



■ 可调整选项 Motor modification options

电机：机身长度，绕组，轴承，螺纹等

Motor : Special length, Windings, Bearings, & Threads

转轴：扁丝，齿轮，键槽，轴伸长度等

Shaft : Flat, Pinion, Keyway, Length

引出线：型号，颜色，长度，连接装置等

Lead wire : Type, Color, Length, Connector Installation

CONTACT US

常州百原电机制造有限公司

地 址：江苏省常州市潞城镇五一路330号
邮 编：213025
总 机：0086-519-85087280 85087290
传 真：0086-519-85087282
网 址：<http://www.bym.cn>
邮 箱：shi@bym.cn, sales@bym.cn, marketing@bym.cn

CHANGZHOU BAIYUAN MOTOR MANUFACTURING CO.,LTD

Address: No.330,Wuyi Road, Lucheng town,
Changzhou City, Jiangsu.

Post Code:213025

Telephone: 0086-519-85087280 85087290

Fax: 0086-519-85087282

Web site: <http://www.bym.cn>

E-mail: shi@bym.cn, sales@bym.cn, marketing@bym.cn