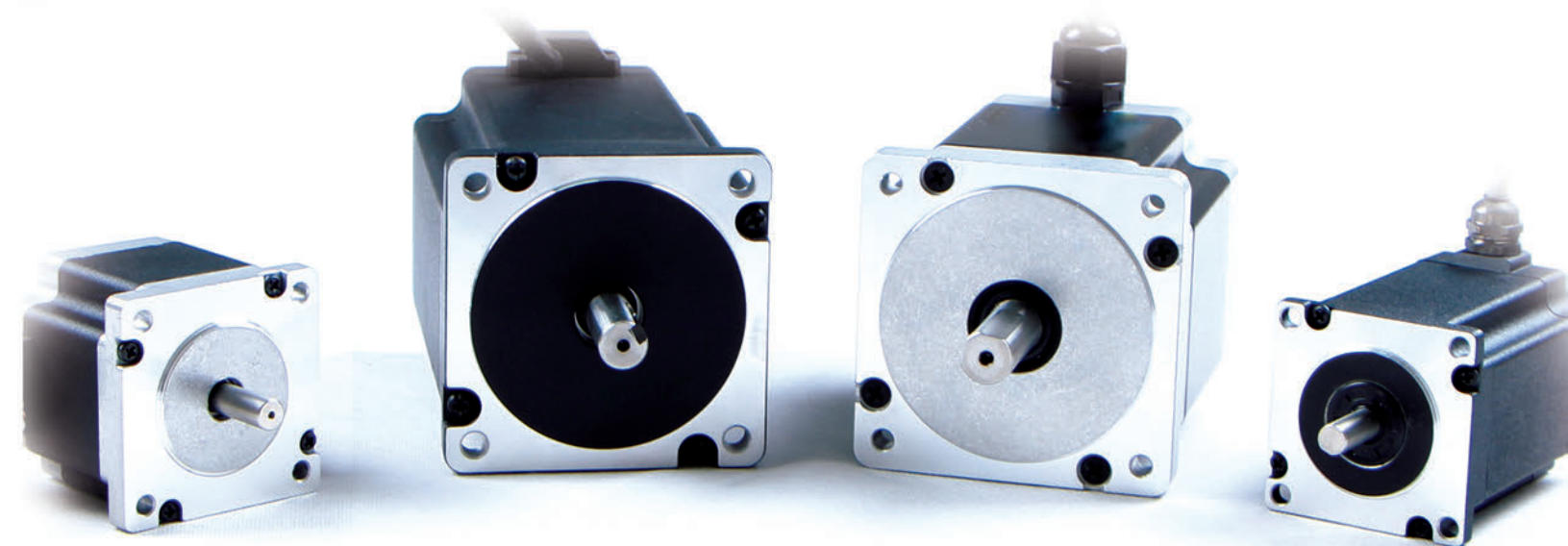


Stepper Motor

步进电机

Product Manual • 产品手册



(2019年版)

Changzhou

常州富兴机电有限公司
Fulling Motor Co., Ltd

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企业简介 WHO WE ARE?

常州富兴机电有限公司是一家中、德、瑞合资企业，成立于 2001 年，位于中国常州。我们专业生产各类混合式步进电机，直流无刷电机，低压伺服电机及相关的驱动器，年生产各类电机 400 万台以上。另外我司有数家合资工厂，专业生产各类交流伺服电机、永磁步进电机，有刷直流电机，二相、三相交流电机，各类带齿轮箱电机，年销售各类电机总量超 500 万台。产品广泛应用于自动化，机器人，纺织，印刷，包装，医疗器械，物流，通信，家电，汽车等行业，远销美国，德国，瑞士，意大利，法国，俄罗斯等 30 多个国家和地区。

公司技术力量雄厚，生产工艺成熟，检验设备齐全。拥有优良的品质保证体系及服务体系，我们已获得德国 TUV 认证的 ISO9001 质量管理体系证书、IATF16949 质量管理体系证书以及 ISO14001 环境管理体系证书，所有产品获得 CE 认证，所有产品符合欧盟 RoHS、REACH 要求，部分获得 UL 认证。

公司秉承以质量至上，创新和社会责任为公司发展理念，持续为全球客户提供专业化的控制电机制造和研发服务。

Changzhou Fulling Motor Co., Ltd was established in year 2001 as a joint venture of Germany - Swiss - China. We are a professional motor manufacturer in Changzhou city, China. Our Company offers four major series of products: Hybrid stepper motors, DC brushless motors, Low Voltage Servo motors and the motor drivers. Production capacity exceeds more than 4 million motors per year. Changzhou Fulling Motor Co., Ltd also has several joint venture companies who specialized in the production of AC Servo motor, PM stepper motors, and DC gear motors.

We sell nearly 5 million different motors to customers worldwide every year. Our products are widely used on industrial automation, robots, textile, printing, medical equipment, logistics, communication, household appliances and automobile etc. We export our motors to more than 30 countries such as Italy, Germany and United States.

At the core of our development is a professional engineering team that comprises industry experts in the fields of design and application engineering. We provide these talented individuals with access to advanced technology and cutting-edge equipment, ensuring the yield of high-quality products. Our company has successfully passed the quality management system certification for the ISO9001, IATF16949 and ISO14001, which were authorized by the German TUV group. All products are RoHS & REACH compliant and CE certified; some are UL approved. Fulling insists the quality first, innovation and social responsibility as company's concept of development and continues to provide global customers with specialized control motor manufacturing and R&D services.





ISO 9001



ISO 14001



IATF 16949



愿景 Our Vision

成为世界级的控制电机制造商及系统集成方案提供者

To be a world-class manufacturer of control motors and a provider of system integration solutions.

使命 Our Mission

为客户创造价值，提供最优的行业解决方案

To create value for customers and provide the best industry solution.

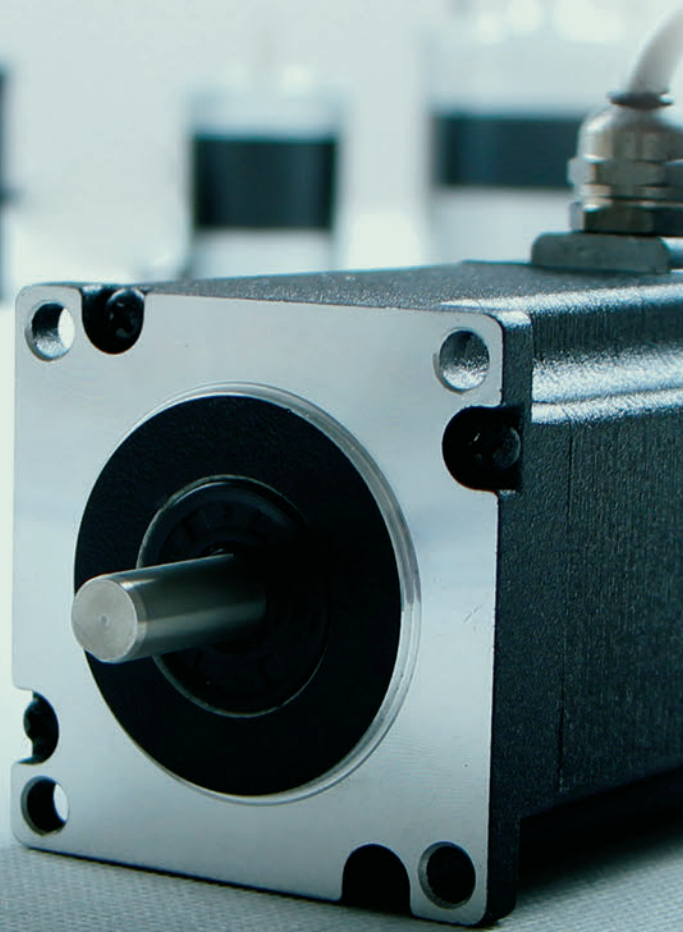
价值观 Our Values

责任、诚信、共赢

Responsibility, integrity and win-win.

Hybrid Stepper Motor

混合式步进电机



混合式步进电机 Hybrid stepper motor

产品概述 (Product Overview)

步进电机是一种将电脉冲转化为角位移的执行机构,通过控制脉冲个数来控制角位移量,实现精确定位。在数字、模拟、通信等各种控制信号下,步进电机被广泛地运用在多种位置和速度控制的应用中。

Stepper motor is an actuator that converts electric pulse into angular displacement, and controls angular displacement by controlling the number of pulses, so as to achieve accurate positioning. Under various control signals such as digital and analog communication, stepper motor is widely used in various position and speed control applications

命名规则 (Motor Numbering Information)

FL 57 ST A 41 - 280 4 A
① ② ③ ④ ⑤ ⑥ ⑦

- ① 机座号 (Frame Size): 20mm,28mm,35mm,39mm,42mm,57mm ,60mm,86 mm,110mm
- ② 步进电动机代号 (Stepping motor code): ST or special words
- ③ 规格系列号 (Specification series no.):A,B,C.....Z or special words
- ④ 长度系列号 (Length series): 41mm,51mm.....
- ⑤ 静态电流代号 (Static current code): 280 表示 (means)2.8A,
- ⑥ 引出线数代号 (Number of leads): 4 表示 (means)4 线 (4 leads)
- ⑦ A 单轴 (Single shaft),B 双轴 (Double shaft);
MA,MB 表示 0.9°单双轴 (means 0.9°single or double shaft)

基本分类 (Basic Classification)

步进电机有各种不同的类型,包含有:

There are various types of stepper motors, including

- 基本型: 机械和性能参数比较标准,容易使用,满足大多数使用要求
Basic type: mechanical and performance parameters comparison standard, easy to use, meet most operational requirements
- IP65 型: 对防尘和防水有特殊设计,满足对 IP65 防护等级有要求的应用
IP65 type: specially designed for dustproof and waterproof, which can meet the requirements of IP65 protection grade
- 刹车型: 装有失电有效式电磁刹车,满足垂直轴应用
Brake type,Equipped with disenergized effective electromagnetic brake,Meet the vertical axis application
- 混合式线性执行器型: 加装丝杆,将旋转运动转化为丝杆的直线运动
HYBRID LINEAR ACTUATORS,Equipped with screw,it converts the rotary motion of the motor into linear motion for a screw
- 编码器型: 装有编码器,编码器反馈信号,可以实现闭环控制功能
Encoder type: equipped with encoder, encoder feedback signal, can achieve closed-loop control function
- 减速机型: 加装高精度行星减速机,满足大转矩的需求的应用
Reducer: it is equipped with high precision planetary reducer to meet the requirement of high torque
- 一体驱动器型: 加装集成的驱动器,满足空间要求紧凑,系统布线简单的应用
Integrated driver type,assemble Integrated driver, Compact space requirements, simple system wiring application
- 闭环伺服控制型: 加装编码器,集成驱动器和控制器,满足控制智能,运行高效,结构紧凑,定位精确,响应快速的应用
Closed loop servo control,assemble encoder, Integrated driver and controller, It meets the requirements of intelligent control, efficient operation, compact structure, accurate positioning and rapid response

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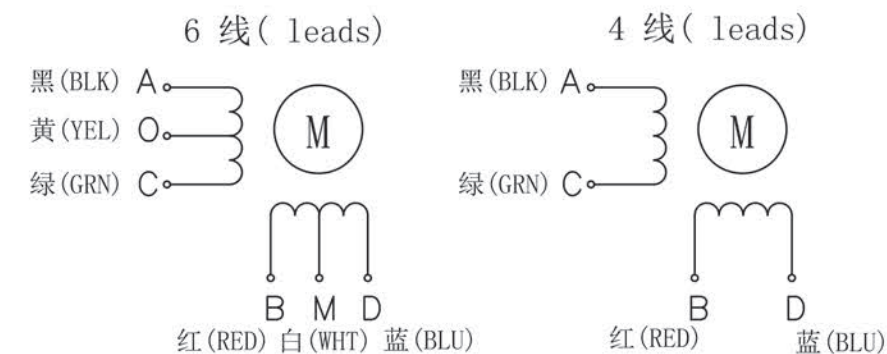
特性概要 (General specification)

选件 Options



项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	0.9°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@400 g
轴向间隙 (Axial Play)	0.08mm@400 g
最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	10N
介电强度 (Dielectric Strength)	600VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

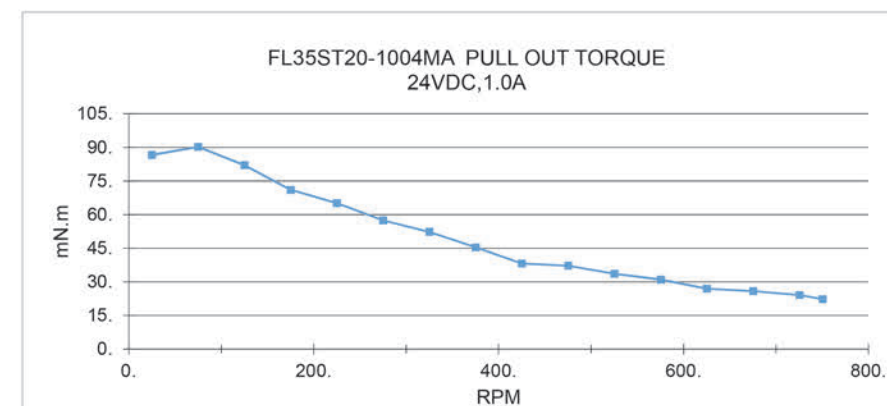
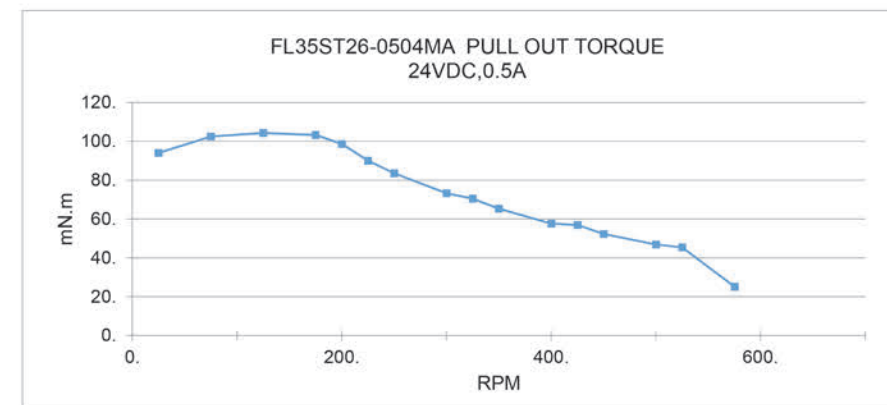
接线图 (Wiring Diagram)



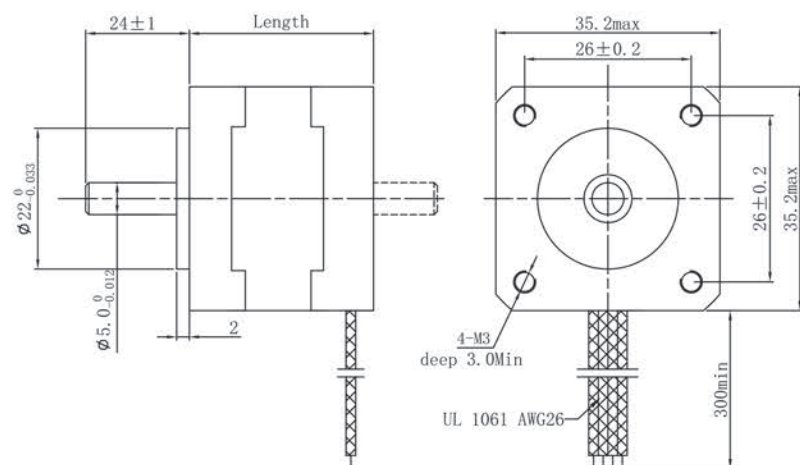
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL35ST20-1004MA	1.0	10.0	8.5	0.050	0.005	4	8	0.10	20±1
FL35ST26-0504MA	0.5	6.1	6.9	0.090	0.008	4	11	0.15	26±1

矩频曲线 (Pull out torque curve)



机械尺寸 (Dimension)

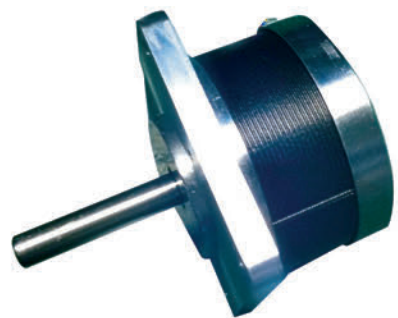


该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

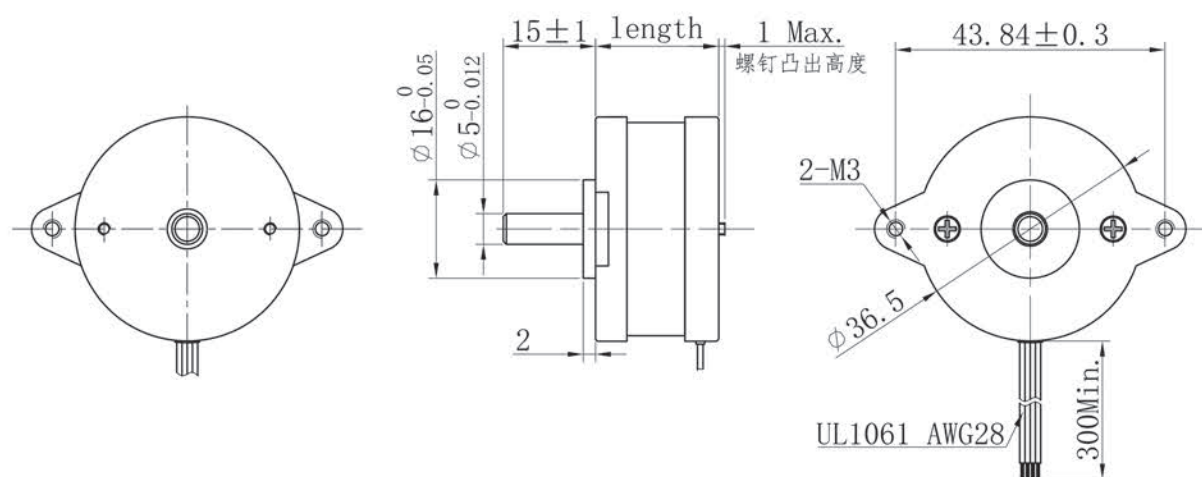


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	0.9°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	5.5N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	2.5N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

电性能 (Electrical specifications)

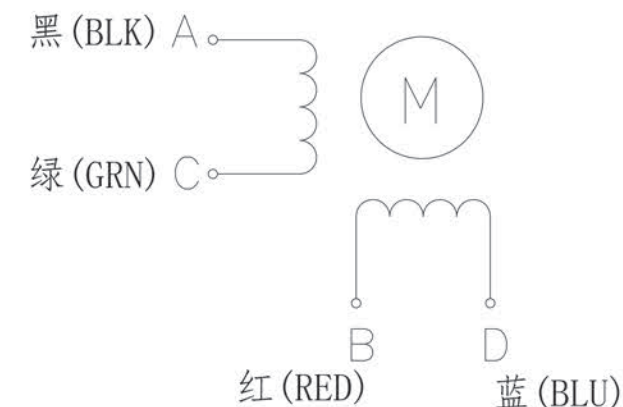
型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g-cm ²	kg	mm
FL36STH20-0504MA	0.5	11.5	9	0.1	0.006	4	19.6	0.09	20±1

机械尺寸 (Dimension)

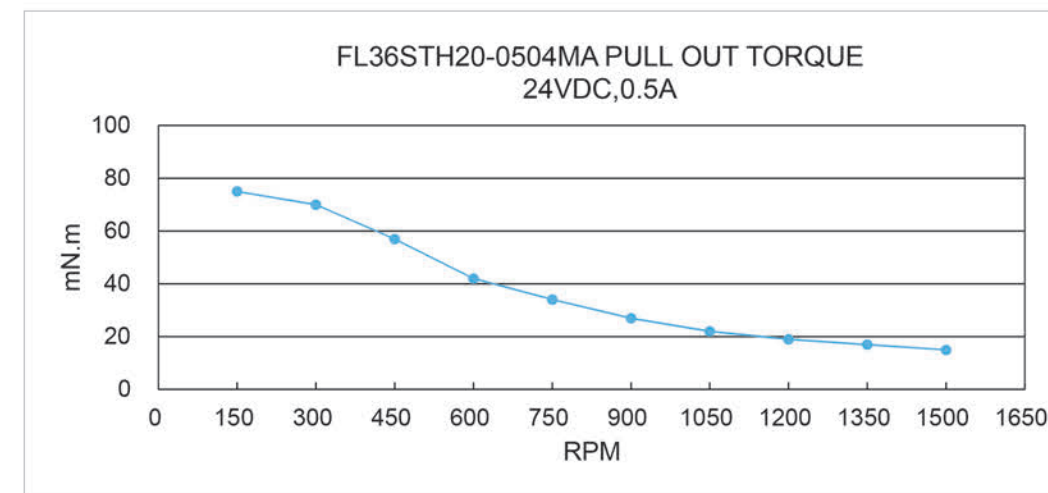


接线图 (Wiring Diagram)

4 线 (leads)



矩频曲线 (Pull out torque curve)



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特性概要 (General specification)

选件 Options

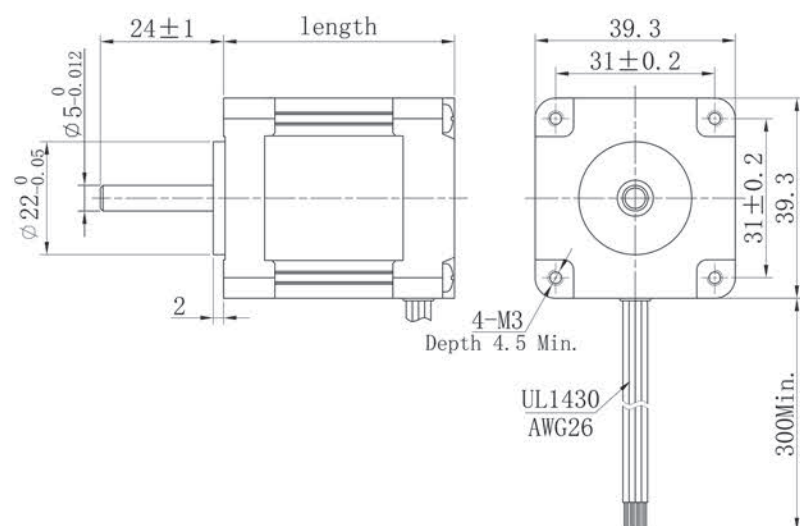


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	0.9°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	10N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

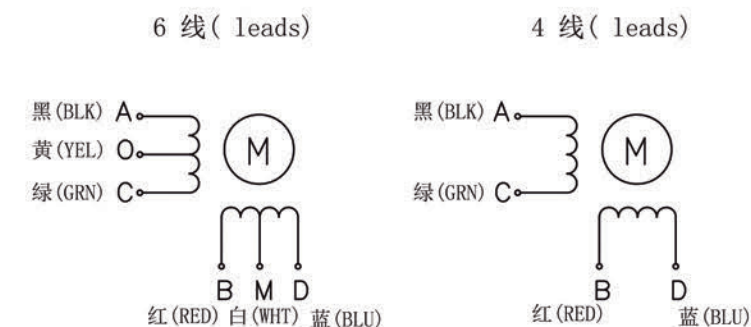
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
Single shaft (单出轴)									
FL39STH45-0284MA	0.28	60	145	0.297	0.02	4	36	0.29	44.5±1

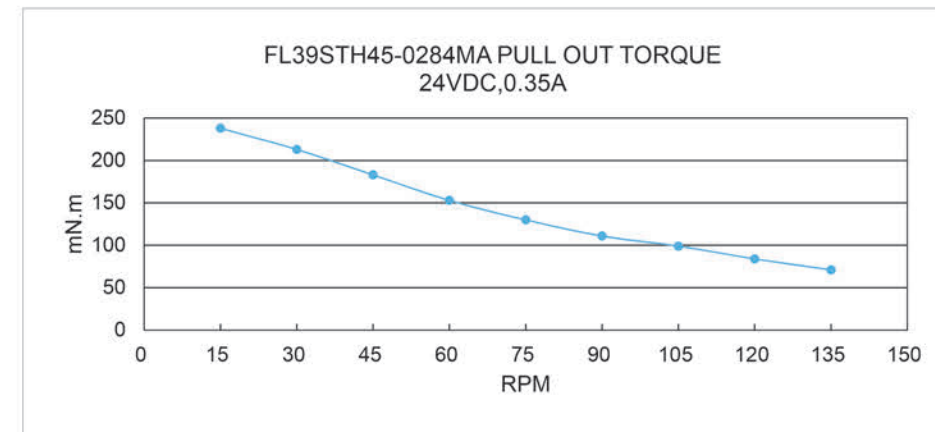
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



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特性概要 (General specification)

选件 Options

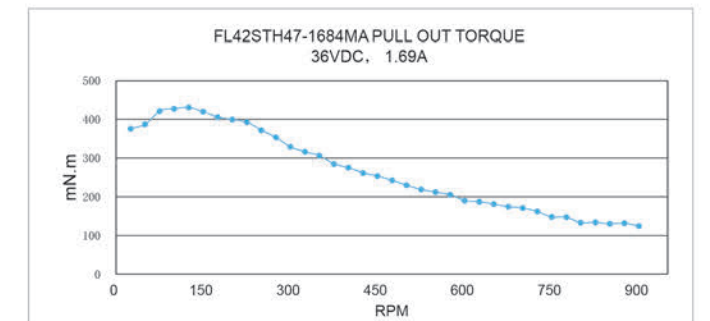
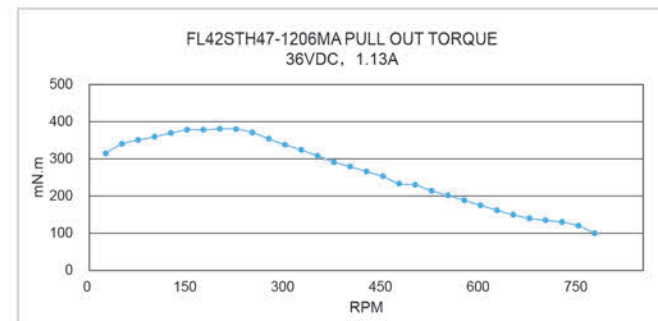
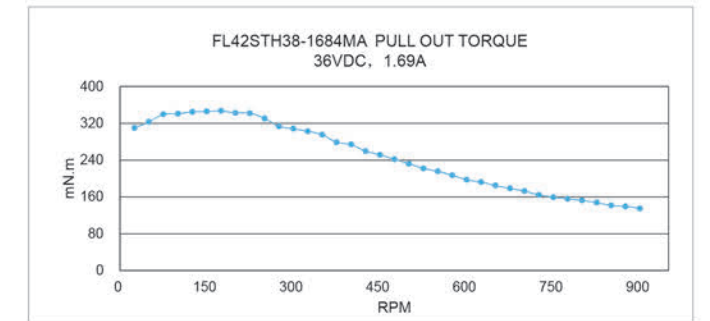
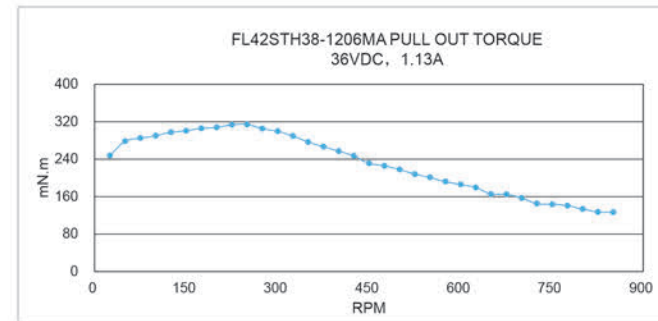
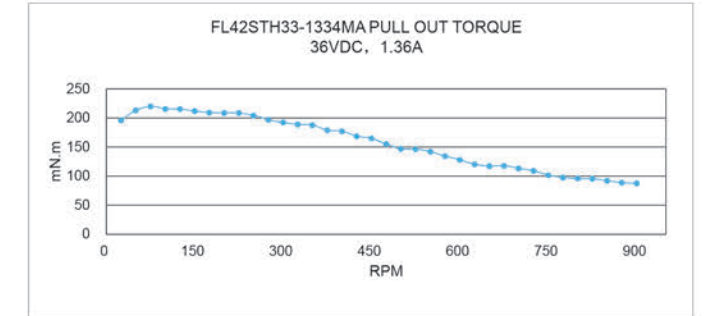
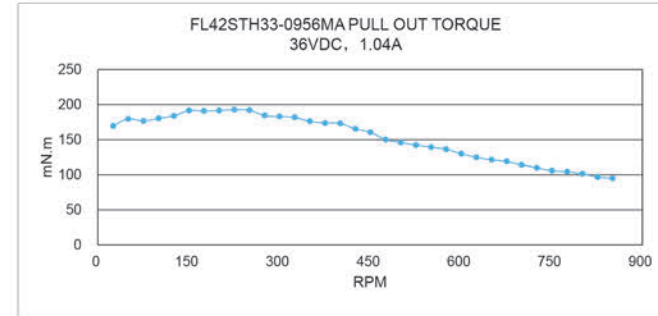


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	0.9°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
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最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
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介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

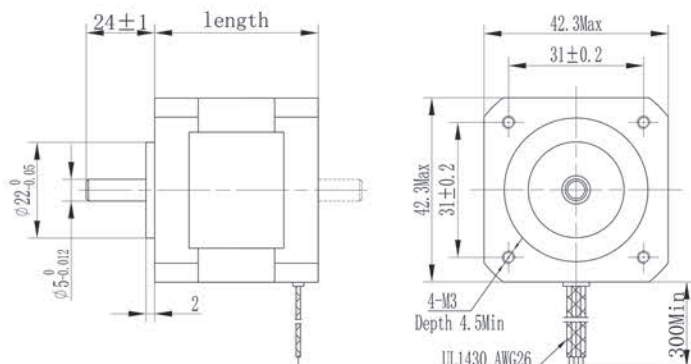
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL42STH33-0956MA	0.95	4.2	4	0.158	0.020	6	35	200	33.5±1
FL42STH33-1334MA	1.33	2.1	4.2	0.220		4			
FL42STH38-1206MA	1.2	3.3	4.1	0.259	0.022	6	54	220	39.5±1
FL42STH38-1684MA	1.68	1.8	4.1	0.330		4			
FL42STH47-1206MA	1.2	3.3	4.9	0.317	0.025	6	68	250	47.5±1
FL42STH47-1684MA	1.68	1.8	5.0	0.440		4			

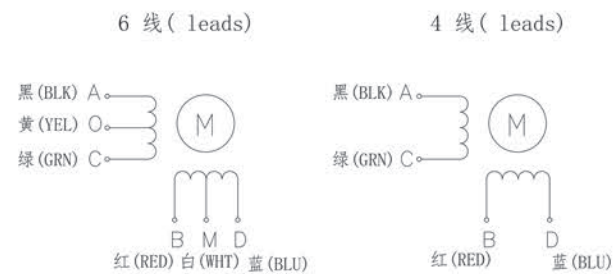
矩频曲线 (Pull out torque curve)



机械尺寸 (Dimension)



接线图 (Wiring Diagram)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

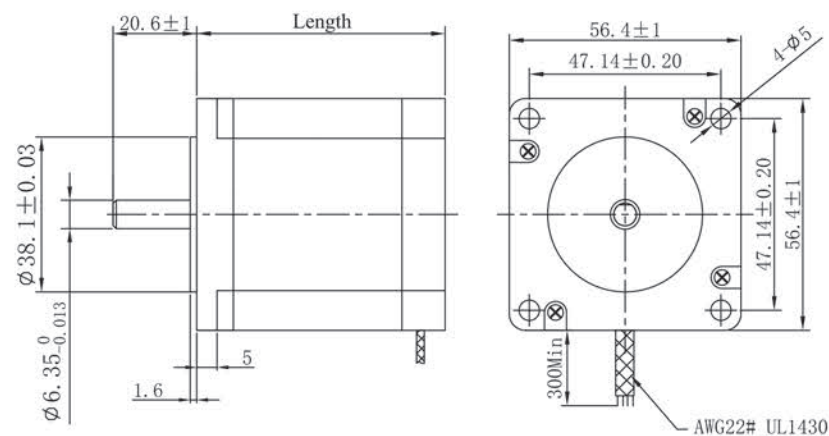


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	0.9°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	75N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	15N
介电强度 (Dielectric Strength)	600VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

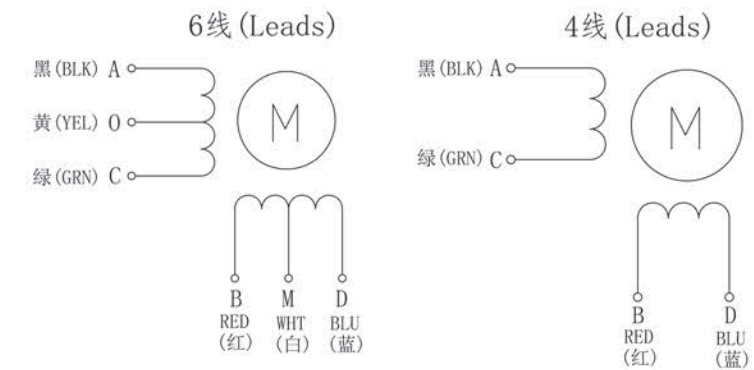
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL57STH41-2006MA	2.0	1.4	2.2	0.39	0.021	6	120	0.45	41
FL57STH41-2804MA	2.8	0.7	2.2	0.55	0.021	4	120	0.45	41
FL57STH56-2006MA	2.0	1.8	4.5	0.9	0.04	6	300	0.7	56
FL57STH56-2804MA	2.8	0.9	4.5	1.2	0.04	4	300	0.7	56
FL57STH76-2006MA	2.0	2.25	5.6	1.35	0.068	6	480	1.0	76
FL57STH76-2804MA	2.8	1.13	5.6	1.8	0.068	4	480	1.0	76

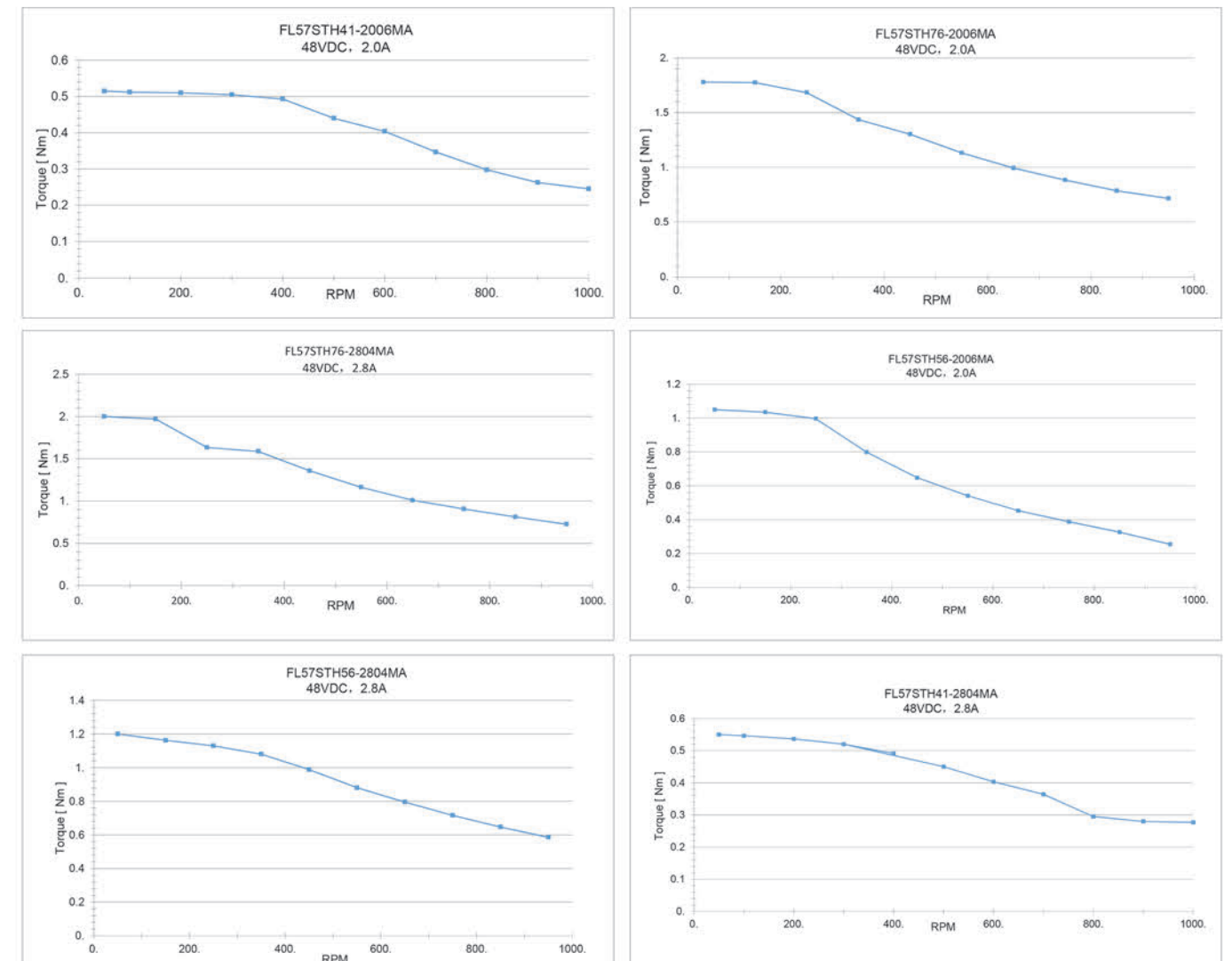
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

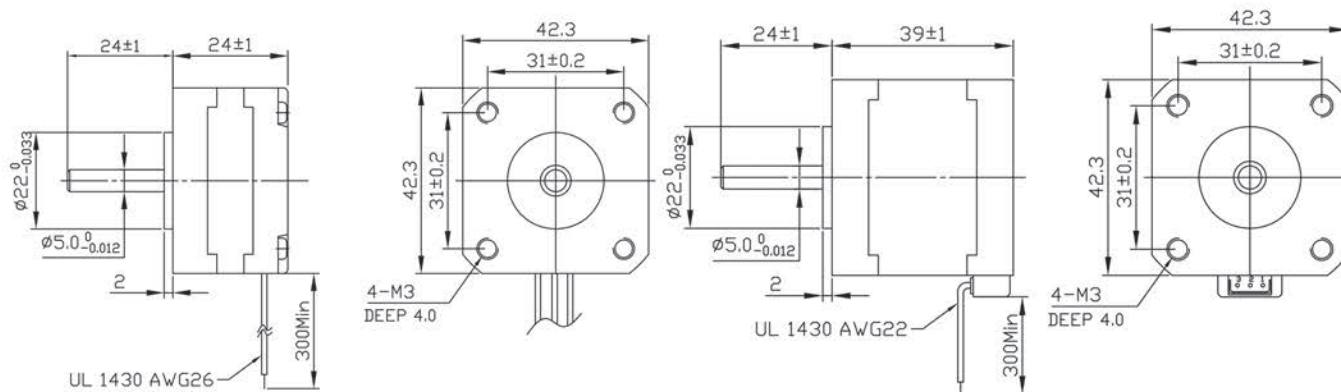


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.2°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	10N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

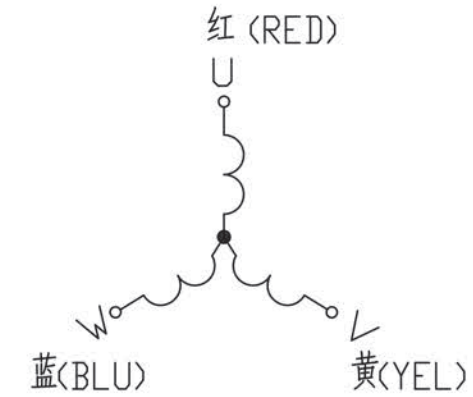
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL423P24-0903A	0.9	6.2	3.2	0.08	0.012	3	20	0.14	24
FL423P39-2403A	2.4	1.2	0.8	0.196	0.015	3	53	0.3	39

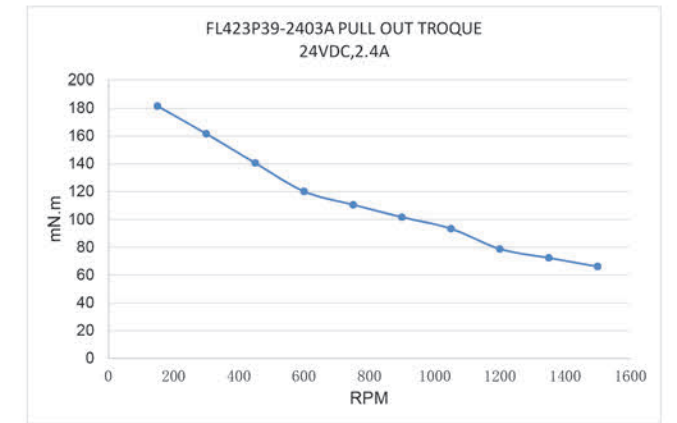
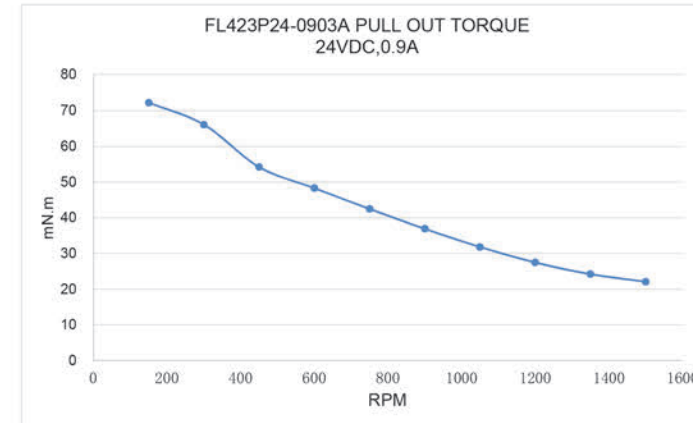
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

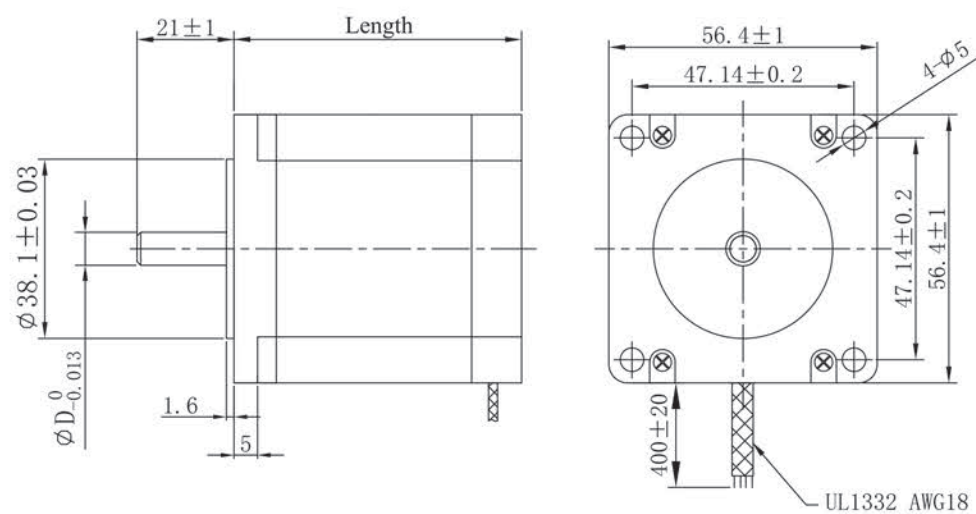


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.2°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	10N
介电强度 (Dielectric Strength)	900VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

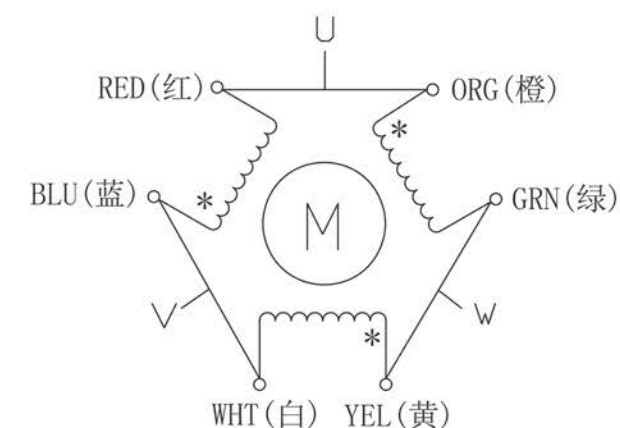
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL573P42-5206A	5.2	1.3	1.4	0.45	0.021	6	110	0.45	42±1
FL573P56-5606A	5.6	0.7	1.7	0.90	0.040	6	300	0.75	56±1
FL573P79-5806A	5.8	1.05	2.4	1.50	0.068	6	480	1.10	79±1

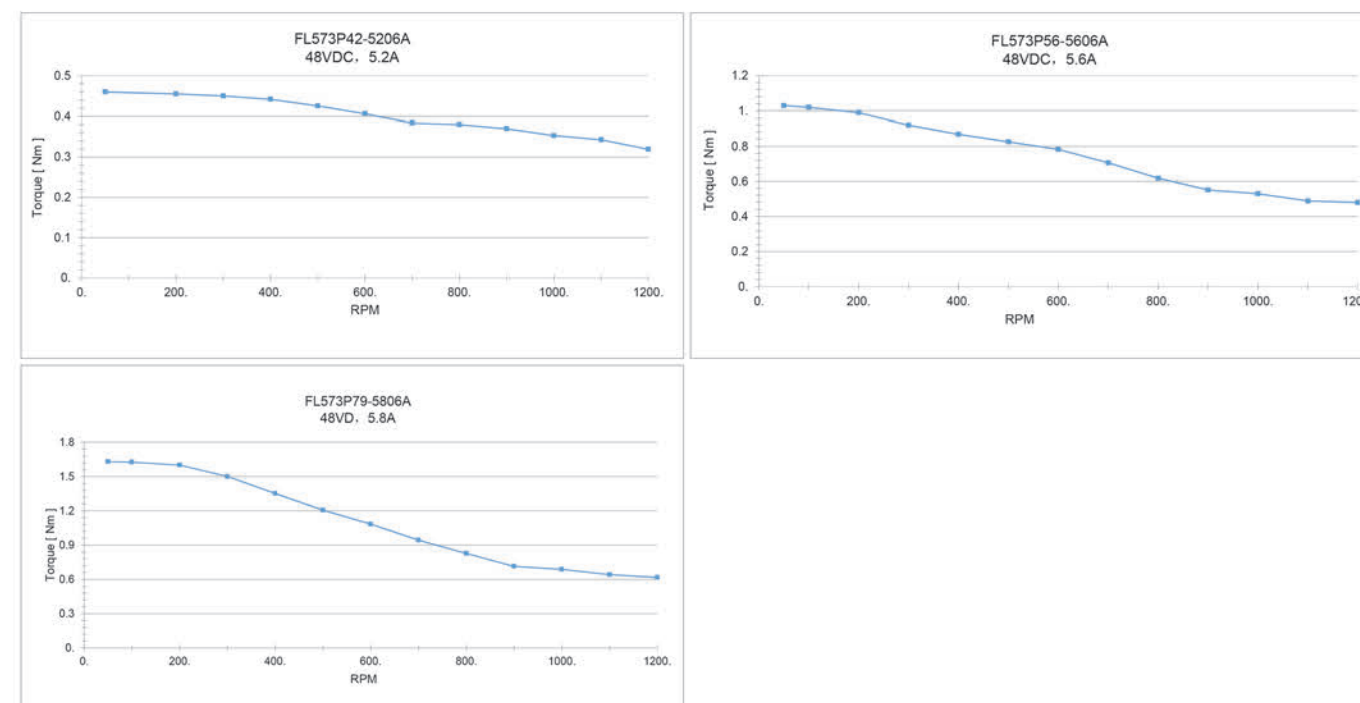
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)

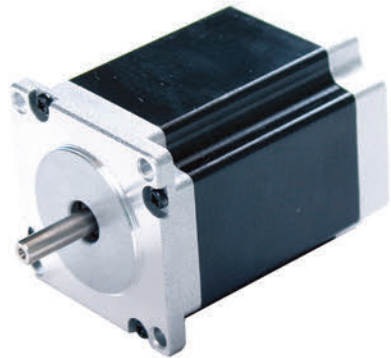


该款电机可以根据客户需求定制。

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特性概要 (General specification)

选件 Options

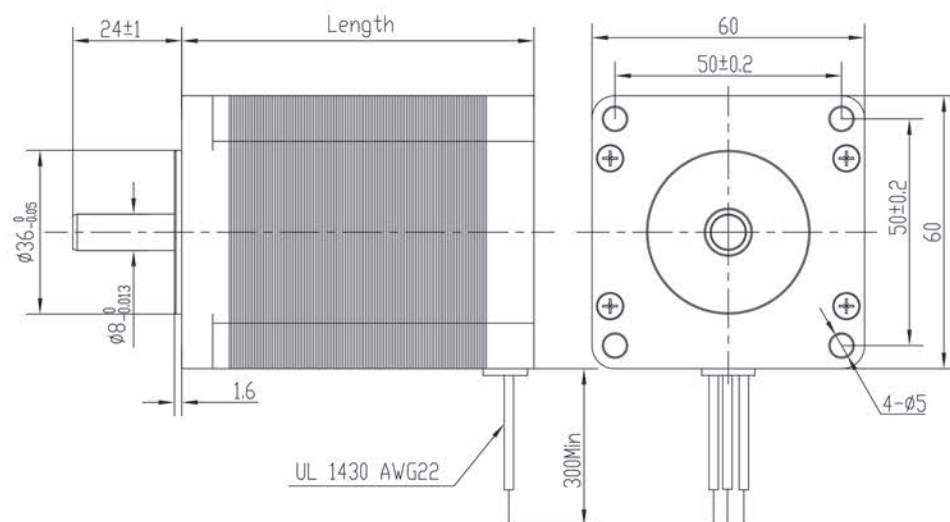


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.2°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	75N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	15N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

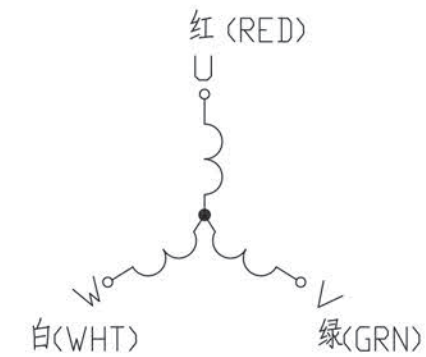
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相电流	Resistance /Phase 每相电阻	Inductance /Phase 每相电感	Holding Torque 保持转矩	Detent Torque 定位转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL603P1253-1503A	1.5	4.1	9.5	0.8	0.07	3	260	0.8	53.5±1
FL603P1277-1503A	1.5	4.4	10	1.1	0.09	3	460	1.3	77.5±1

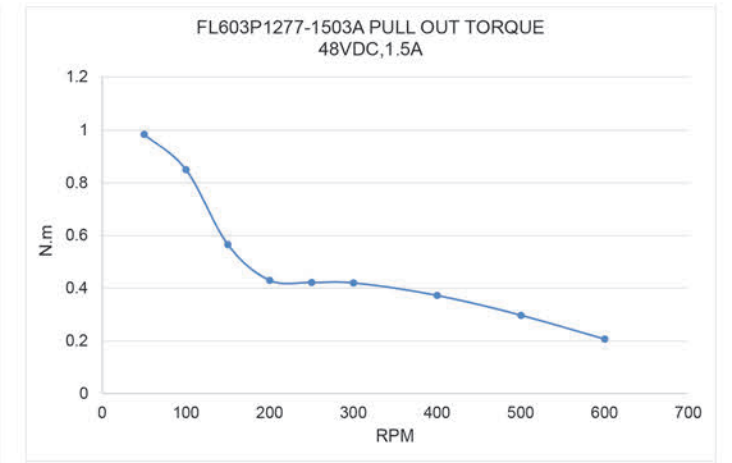
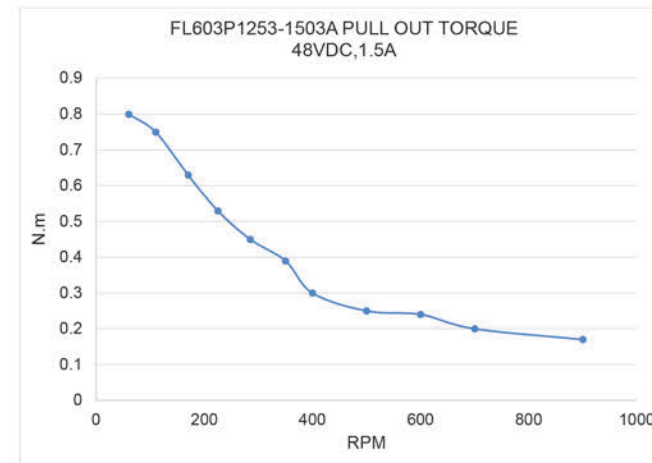
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

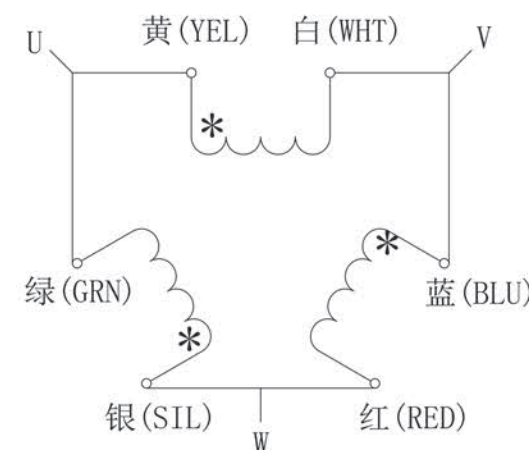
特性概要 (General specification)

选件 Options



项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.2°
步距角精度	±5% (整步, 空载)
径向间隙 (Radial Play)	0.025mm@500 g
轴向间隙 (Axial Play)	0.075mm@1000 g
最大径向负载 (Max. radial force)	220N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	60N
介电强度 (Dielectric Strength)	1200VAC /1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

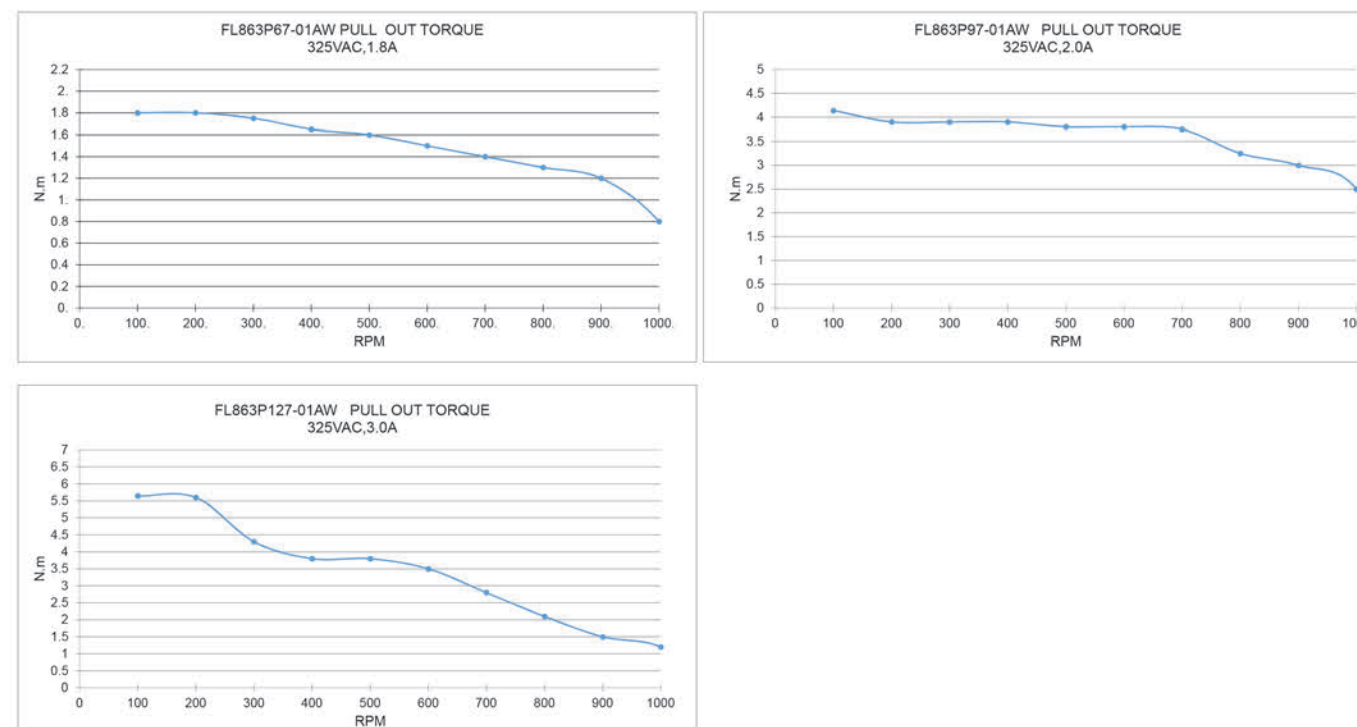
接线图 (Wiring Diagram)



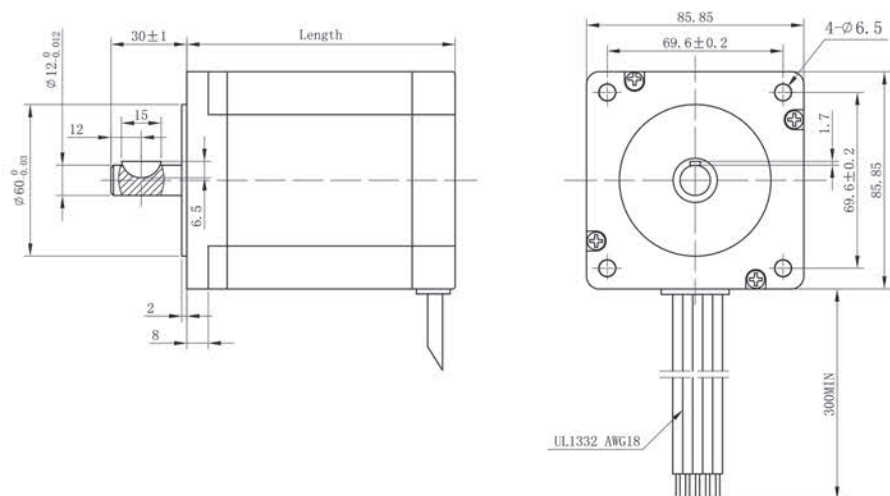
电性能 (Electrical specifications)

型号. (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL863P67-01AW	1.75	4.25	11	2.0	0.08	6	1120	1.65	67
FL863P97-01AW	2	5.8	23	4.52	0.15	6	2200	2.7	97
FL863P97-02AW	5.8	0.97	3.2	4.52	0.15	6			
FL863P127-01AW	2.25	9	41	6.78	0.26	6	3300	3.8	127
FL863P127-02AW	5.2	1.8	8	6.78	0.26	6			

矩频曲线 (Pull out torque curve)



机械尺寸 (Dimension)

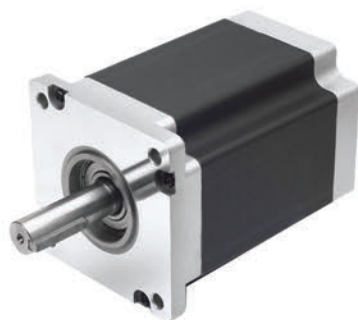


该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

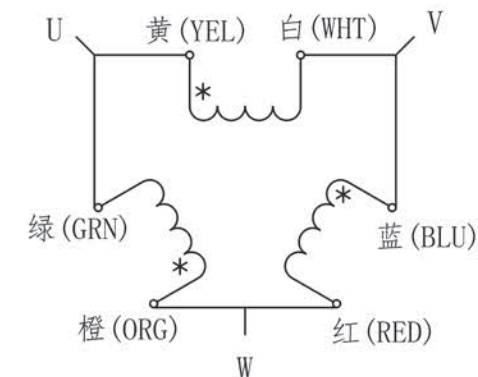
特性概要 (General specification)

选件 Options



项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.2°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	330N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	100N
介电强度 (Dielectric Strength)	1800VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20°C~+50°C
绝缘等级 (Insulation Class)	Class B

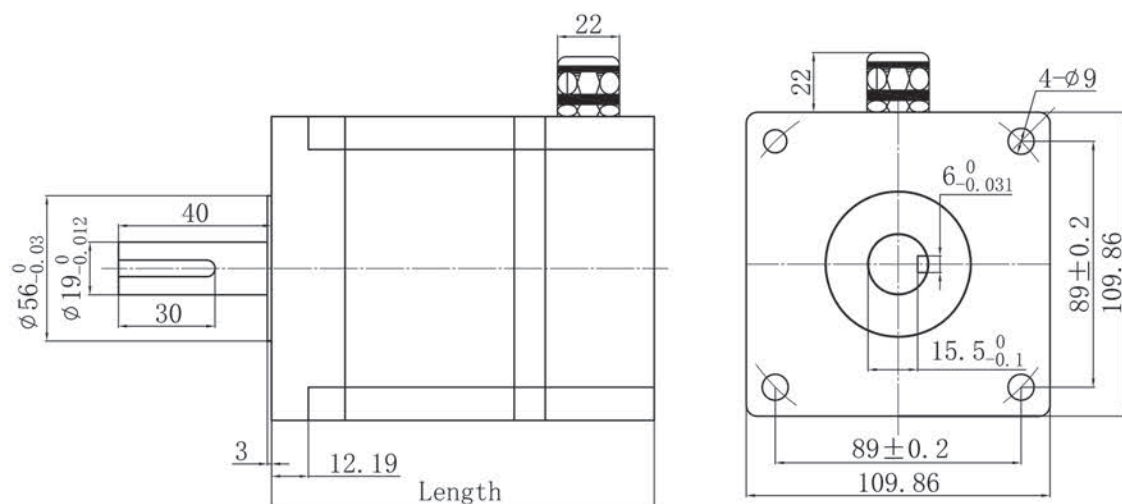
接线图 (Wiring Diagram)



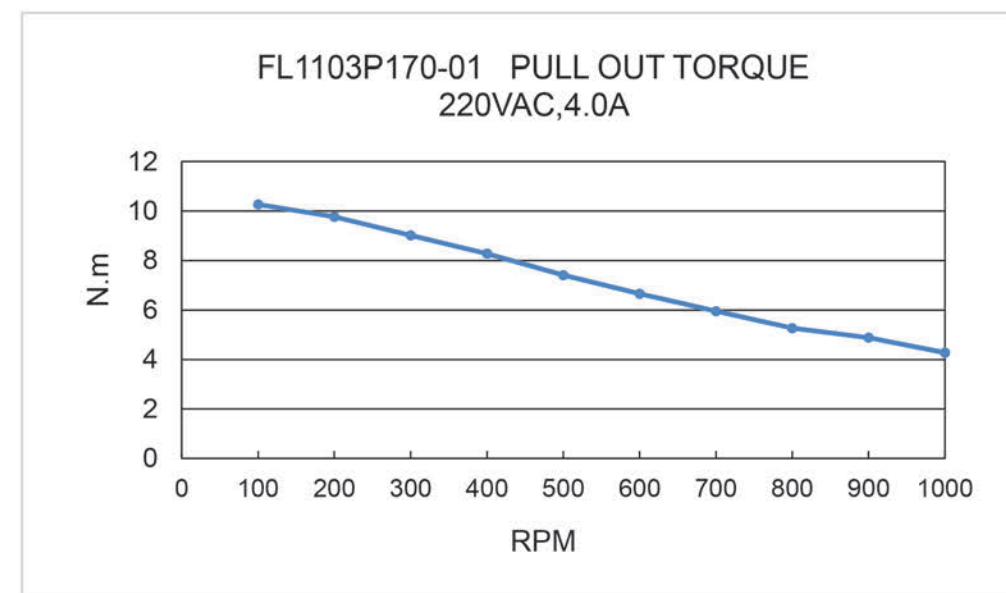
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g-cm ²	kg	mm
FL1103P170-01	4.1	1.96	18	13.92	1.01	6	10500	8	173±1

机械尺寸 (Dimension)



矩频曲线 (Pull out torque curve)

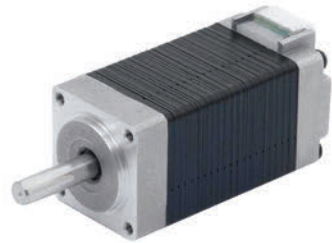


该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

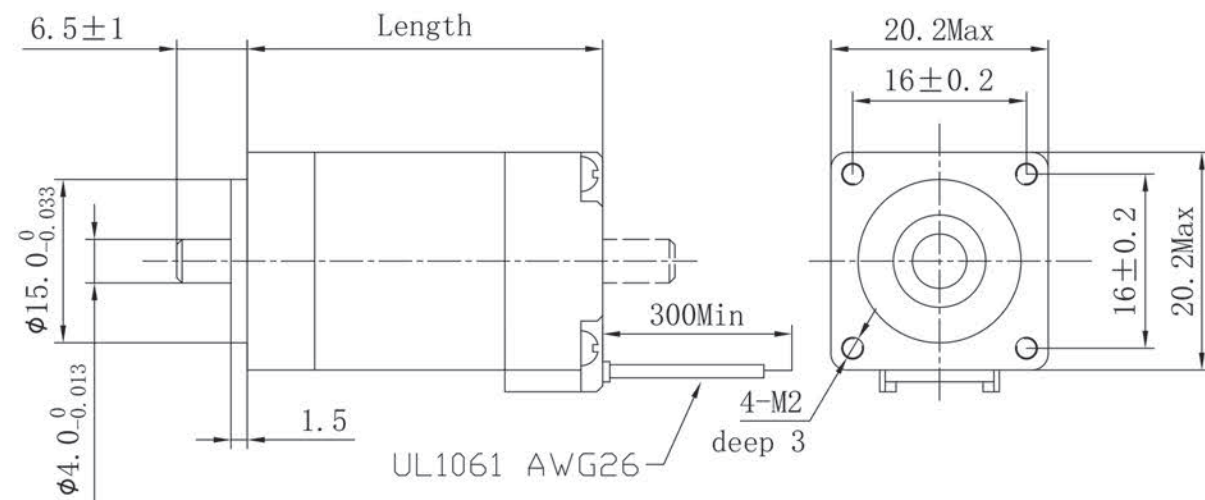


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	10N
最大轴向负载 (Max. axial force)	4N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

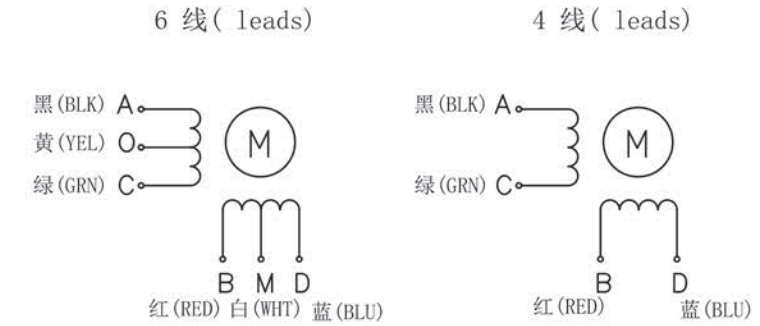
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL20STH30-0604A	0.6	6.5	1.7	0.018	0.002	4	2	0.06	30
FL20STH33-0604A	0.6	6.5	1.7	0.018	0.002	4	2	0.06	33
FL20STH42-0804A	0.8	5.4	1.5	0.03	0.002	4	3.6	0.08	42

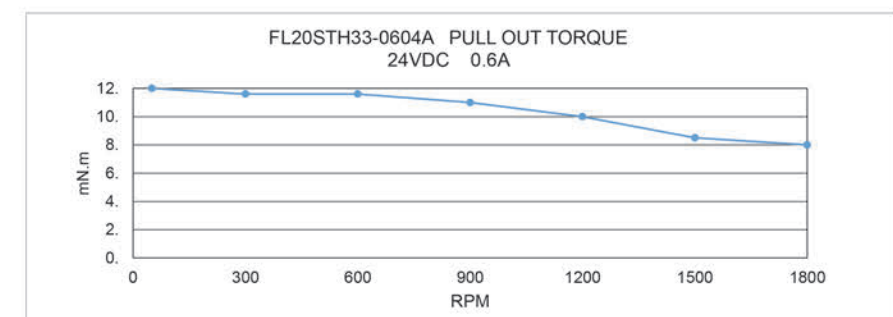
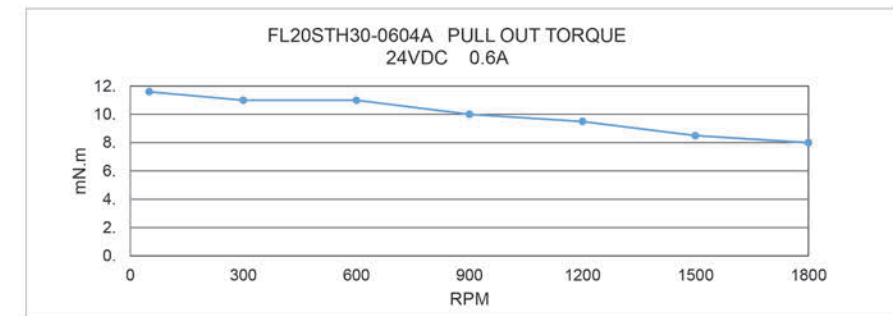
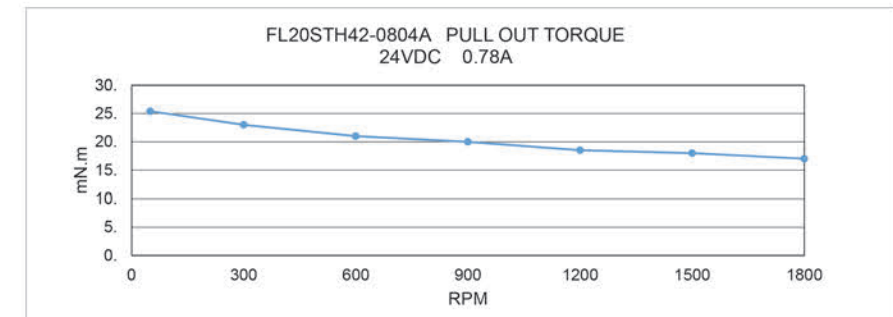
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options
Connector
接插件

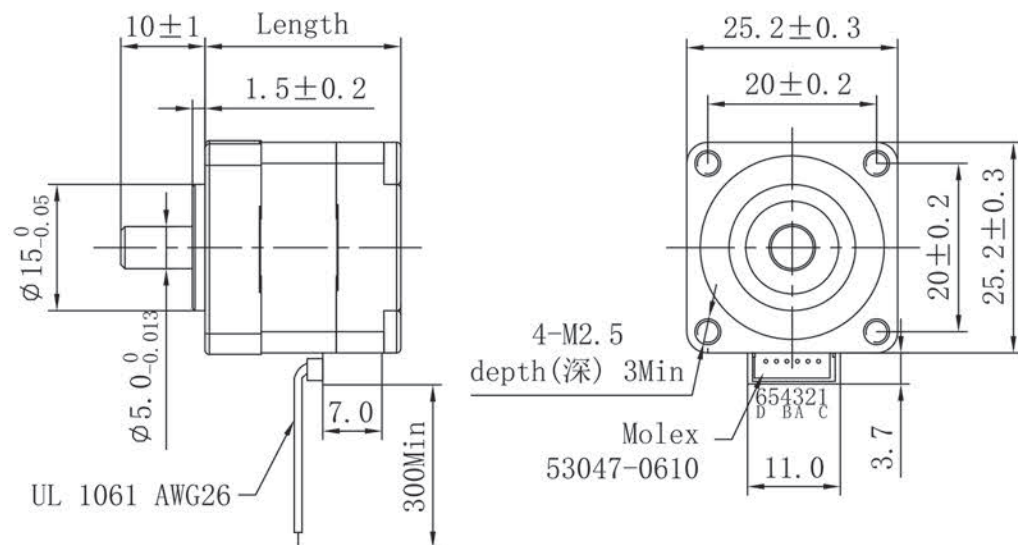


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	7N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

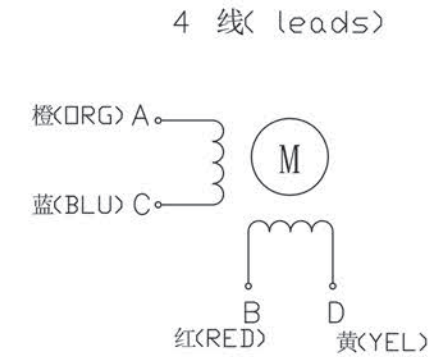
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL25STH23-0704A	0.7	4.0	2.4	0.033	0.003	4	2	0.055	24±1

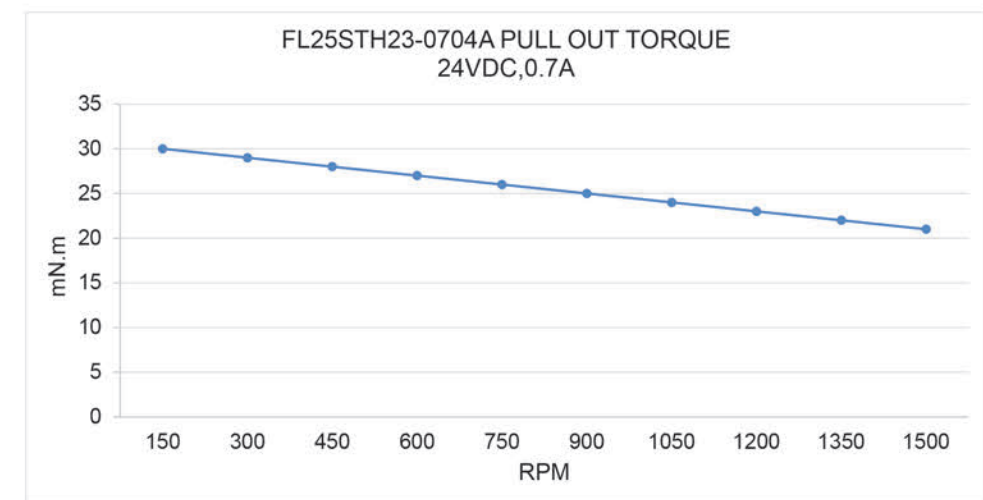
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)

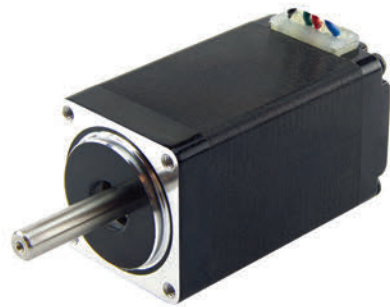


该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

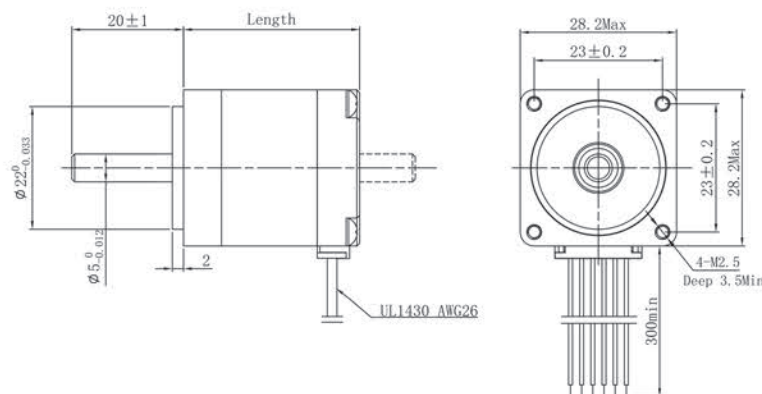


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@400 g
轴向间隙 (Axial Play)	0.08mm@400 g
最大径向负载 (Max. radial force)	28N 距法兰 5mm (5mm from the flange)
最大轴向负载 (Max. axial force)	7N
介电强度 (Dielectric Strength)	600VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL28STH32-0674A	0.67	5.6	3.4	0.060	0.005	4	9	0.11	32max
FL28STH32-0956A	0.95	2.8	1.0	0.043	0.005	6	9	0.11	32 max
FL28STH45-0674A	0.67	6.8	4.9	0.095	0.006	4	12	0.14	45 max
FL28STH45-0956A	0.95	3.4	1.2	0.075	0.006	6	12	0.14	45 max
FL28STH51-0674A	0.67	9.2	7.2	0.120	0.008	4	18	0.20	51 max
FL28STH51-0956A	0.95	4.6	1.8	0.090	0.008	6	18	0.20	51 max

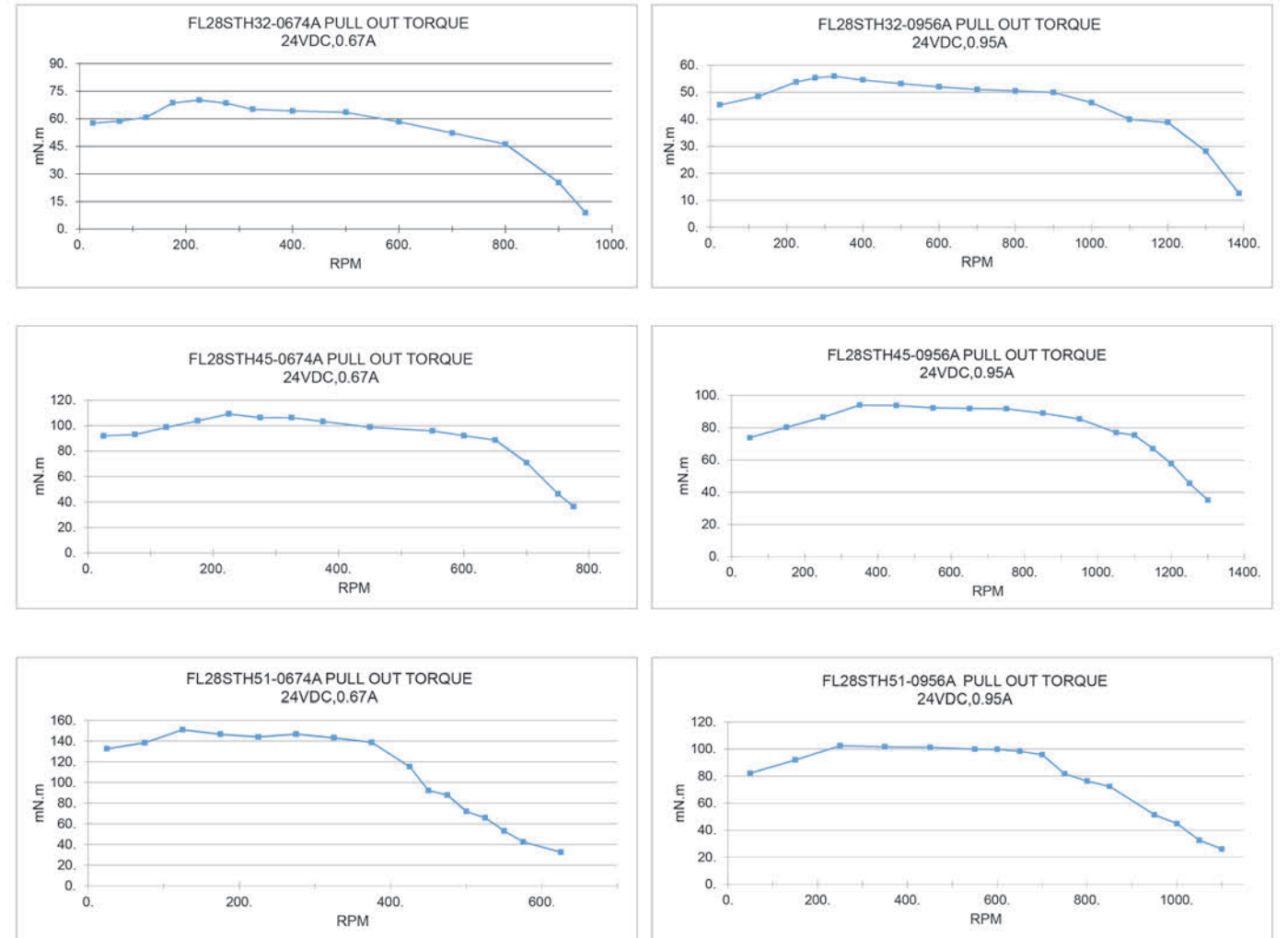
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)

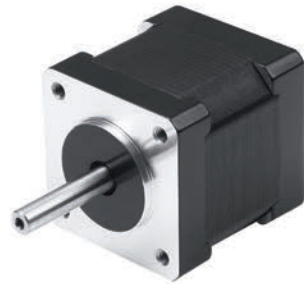


该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

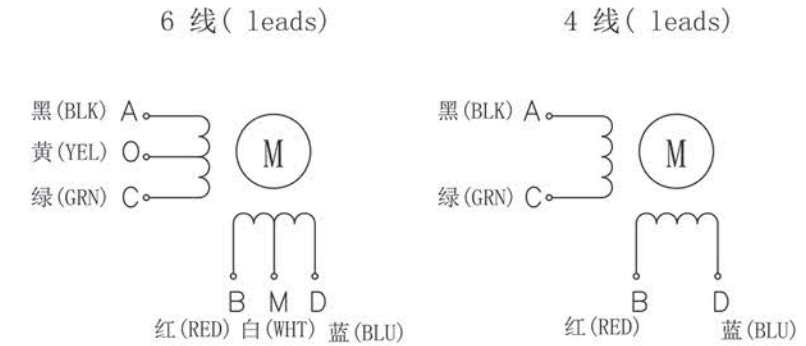
特性概要 (General specification)

选件 Options



项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	10N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

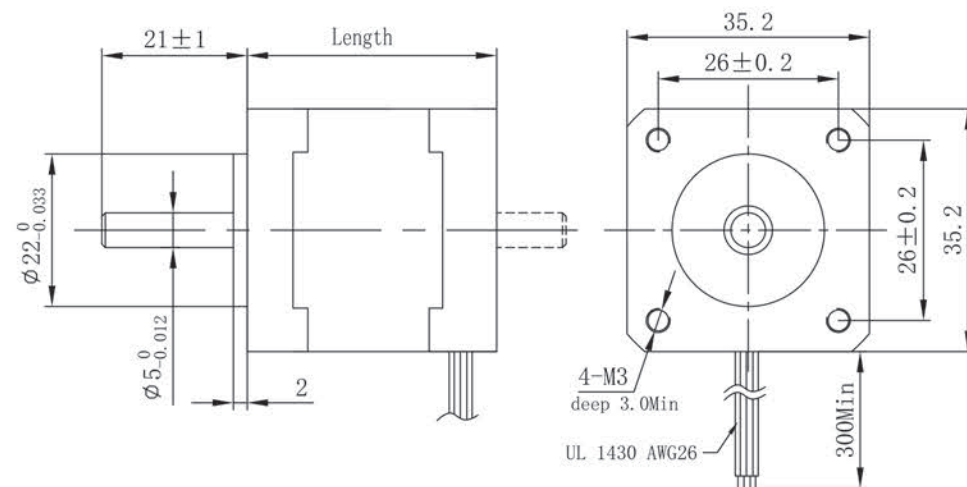
接线图 (Wiring Diagram)



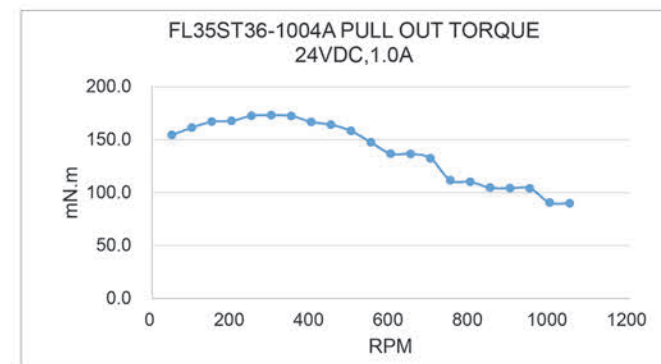
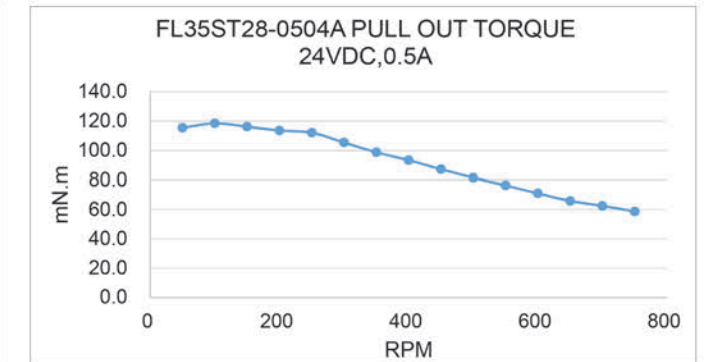
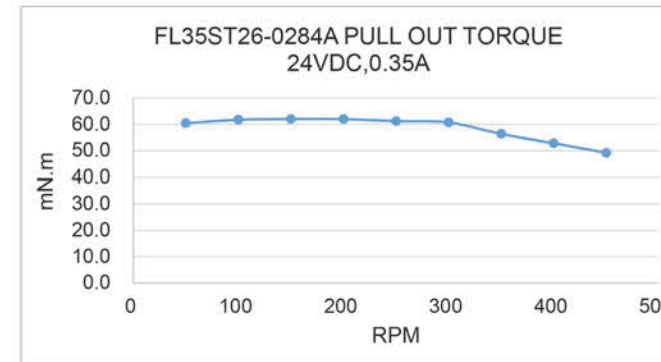
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相电流	Resistance /Phase 每相电阻	Inductance /Phase 每相电感	Holding Torque 保持转矩	Detent Torque 定位转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL35ST26-0284A	0.28	26	27	0.07	0.006	4	10	0.13	26±1
FL35ST28-0504A	0.5	20	14	0.1	0.008	4	11	0.14	28±1
FL35ST36-1004A	1.0	2.7	4.3	0.14	0.01	4	14	0.18	36±1

机械尺寸 (Dimension)



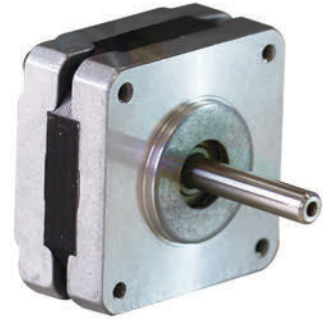
矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

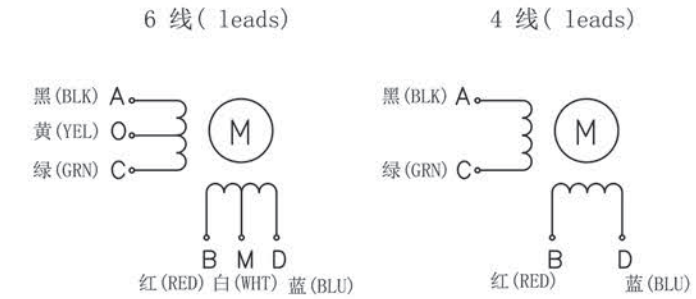
特性概要 (General specification)



选件 Options
 Connector 接插件
 Gearbox 齿轮箱

项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	10N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

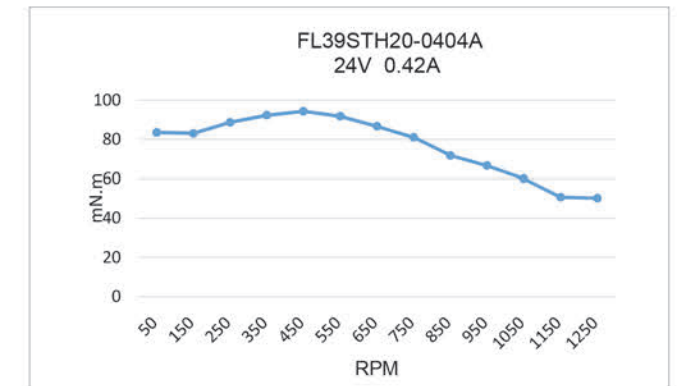
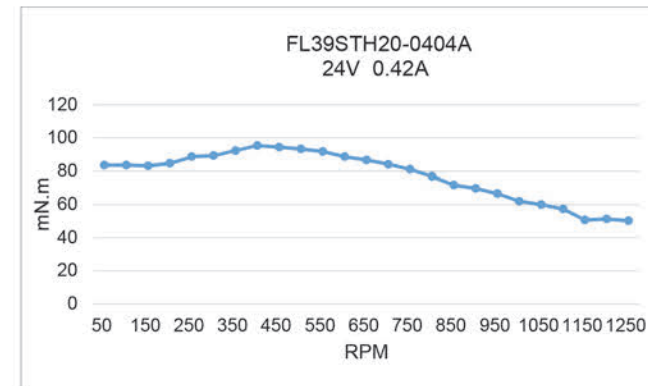
接线图 (Wiring Diagram)



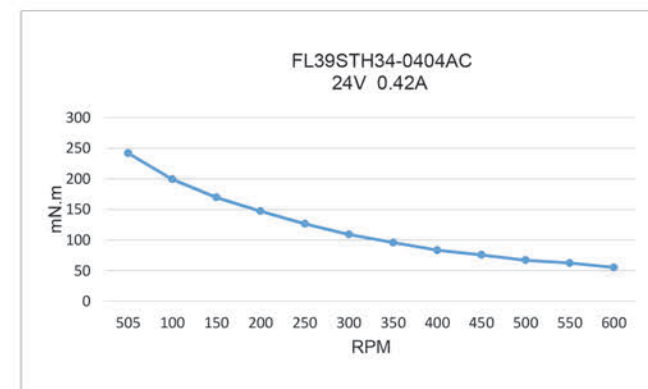
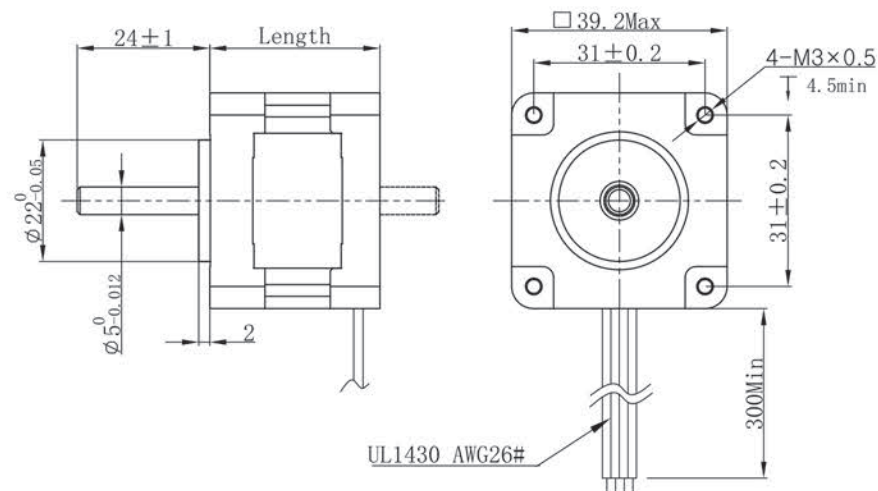
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL39STH20-0404A	0.4	6.6	7.0	0.085	0.008	15	0.12	50	20
FL39STH34-0306A	0.3	40	30	0.18	0.01	30	0.18	120	31
FL39STH38-0504A	0.5	24	50	0.36	0.012	44	0.2	180	38

矩频曲线 (Pull out torque curve)



机械尺寸 (Dimension)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

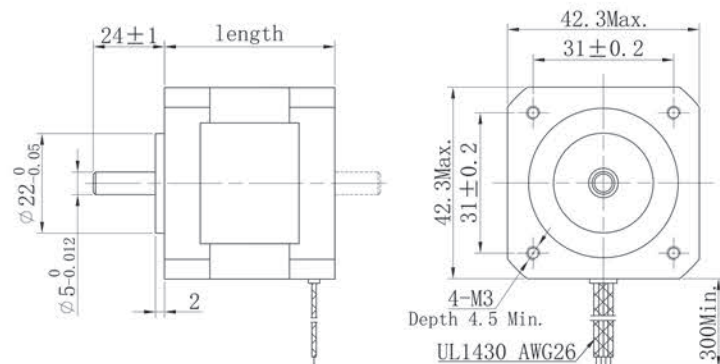


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	10N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

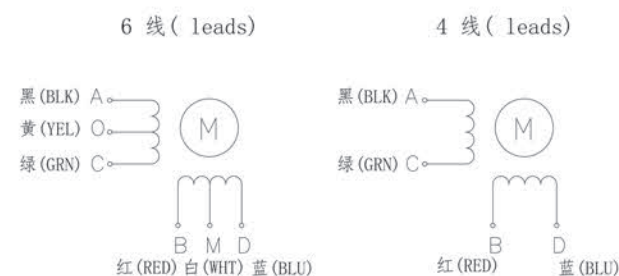
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL42STH25-0404A	0.4	24	30	0.17	0.0075	4	20	0.15	26±1
FL42STH33-0956A	0.95	4.2	2.5	0.16	0.012	6	35	0.22	33.5±1
FL42STH33-1334A	1.33	2.1	2.5	0.22		4			
FL42STH38-1206A	1.2	3.3	3.2	0.26	0.015	6	54	0.28	39.5±1
FL42STH38-1684A	1.68	1.65	3.2	0.36		4			
FL42STH47-1206A	1.2	3.3	2.8	0.317	0.02	6	68	0.35	47.5±1
FL42STH47-1684A	1.68	1.65	2.8	0.44		4			
FL42STH60-1206A	1.2	6	7	0.56	0.028	6	102	0.5	60±1

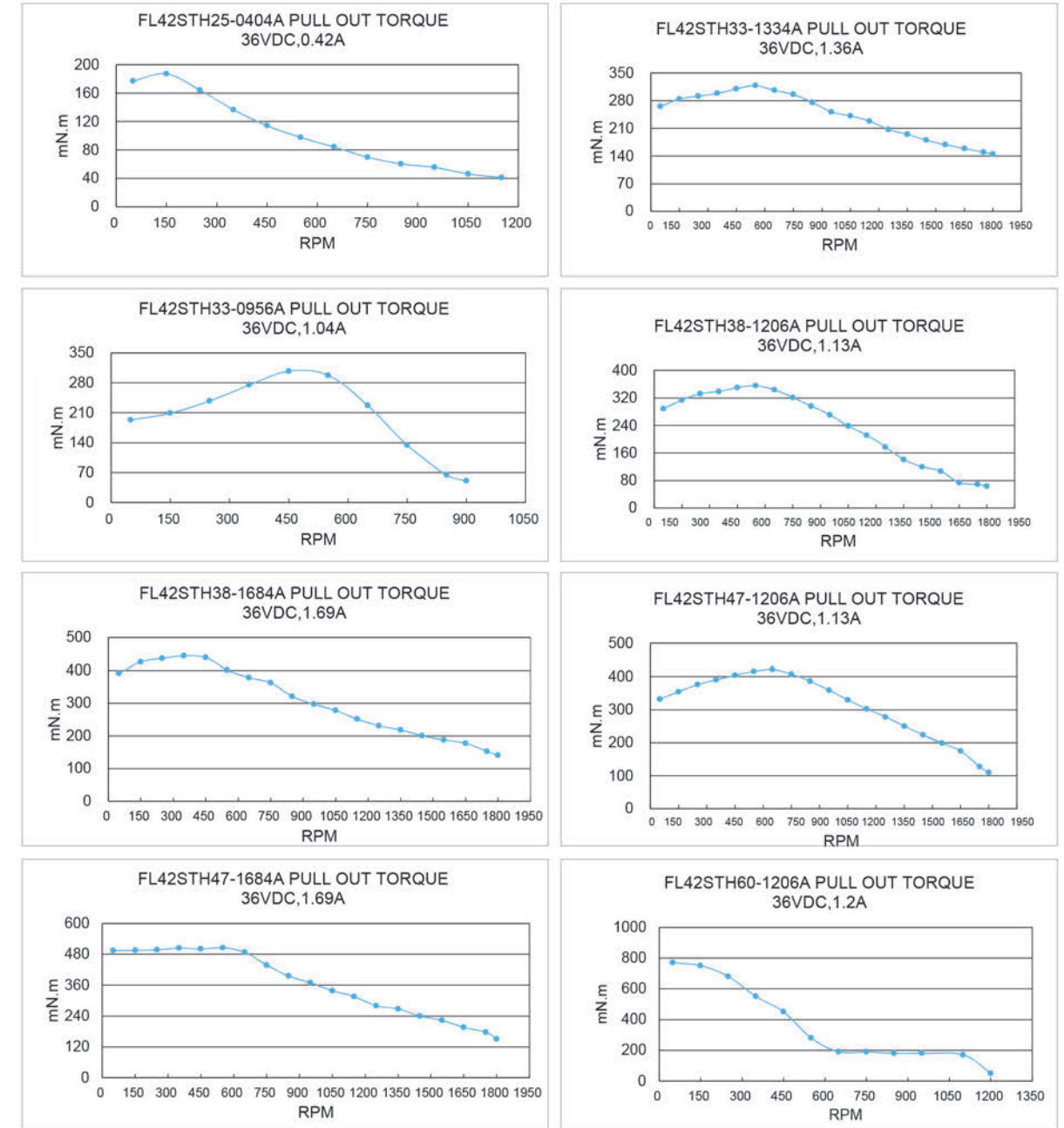
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



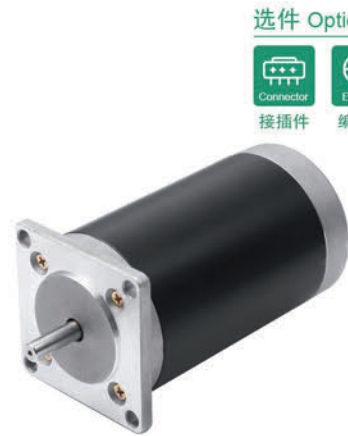
矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)



选件 Options

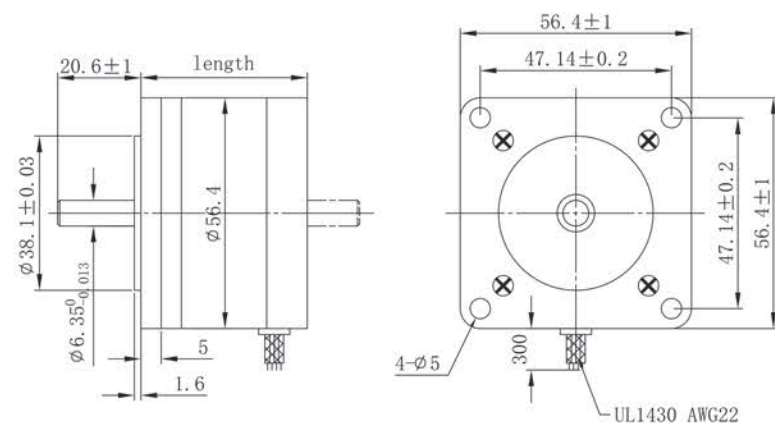


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	75N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	15N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

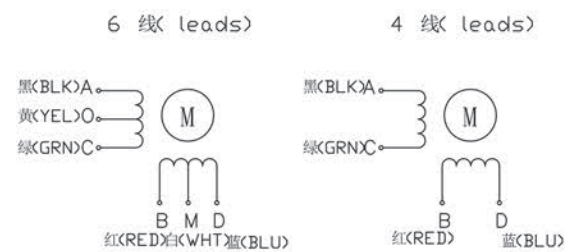
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL57ST41-1106A	1.1	3.6	4.0	0.28	0.018	6	57	0.54	41±1
FL57ST51-2804A	2.8	0.85	2.1	0.69	0.035	4	110	0.6	51±1
FL57ST56-2554A	2.55	1.1	3.6	0.84	0.042	4	135	0.65	56±1
FL57ST76-1506A	1.5	3.6	6.0	0.9	0.072	6	200	0.95	76±1

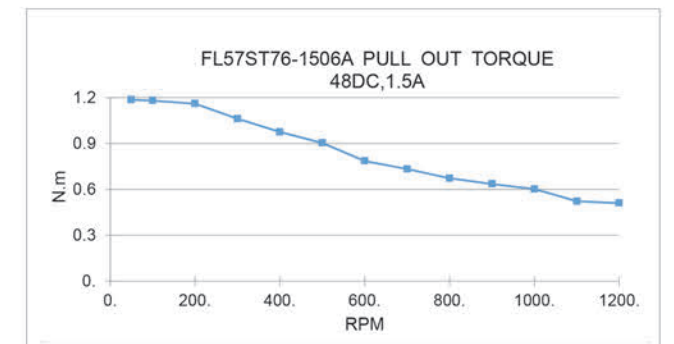
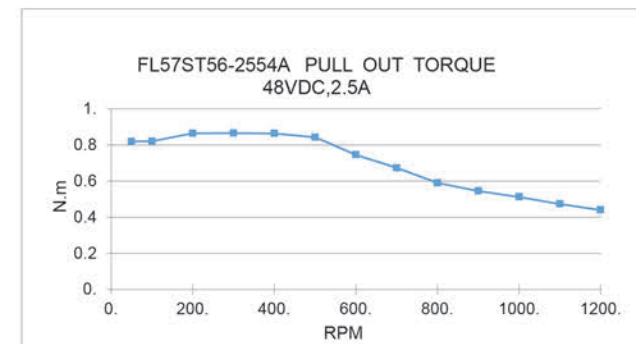
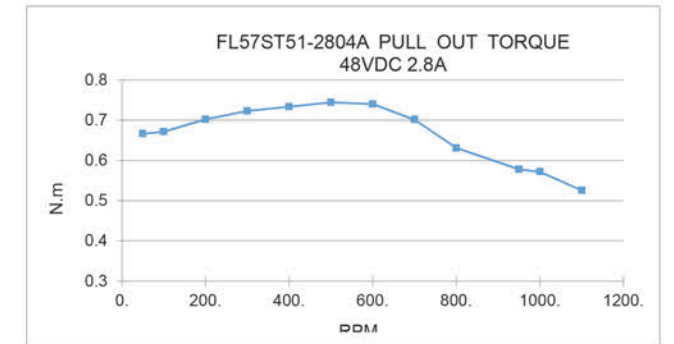
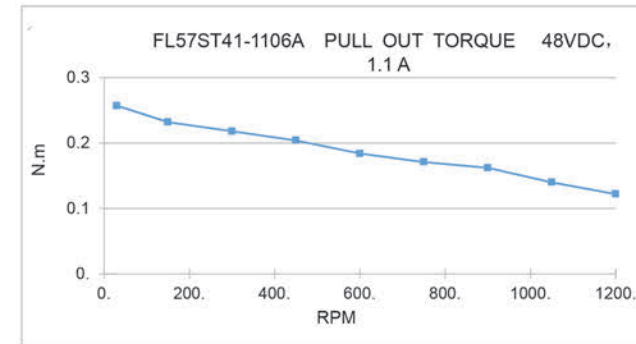
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

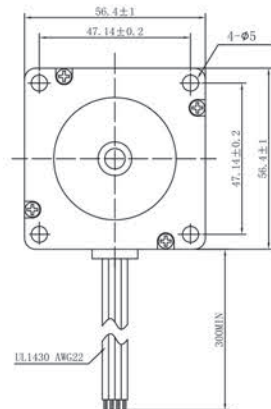
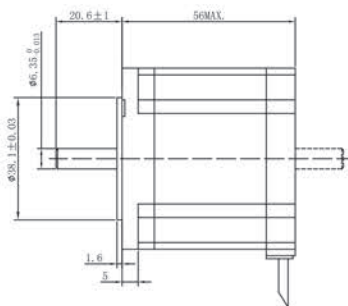


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步, 空载)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	75N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	15N
介电强度 (Dielectric Strength)	600VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20° C~+50° C
绝缘等级 (Insulation Class)	Class B

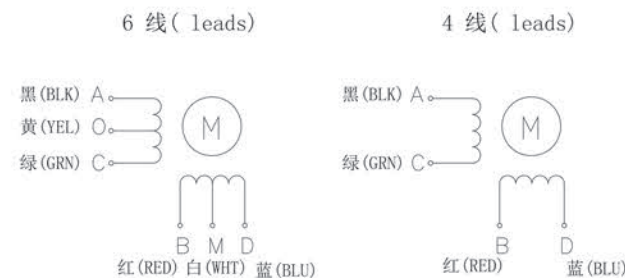
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g-cm ²	kg	mm
FL57STH41-2006A	2.0	1.4	1.4	0.39	0.02	6	120	0.45	40±1
FL57STH41-2804A	2.8	0.7	1.4	0.55	0.02	4	120	0.45	40±1
FL57STH51-2006A	2.0	1.65	2.2	0.72	0.035	6	275	0.65	50±1
FL57STH51-2804A	2.8	0.83	2.2	1.0	0.035	4	275	0.65	50±1
FL57STH56-2006A	2.0	1.8	2.5	0.9	0.04	6	300	0.7	54±1
FL57STH56-2804A	2.8	0.9	2.5	1.26	0.04	4	300	0.7	54±1
FL57STH76-2006A	2.0	2.25	3.6	1.35	0.068	6	480	1.0	75±1
FL57STH76-2804A	2.8	1.13	3.6	1.89	0.068	4	480	1.0	75±1
FL57STH115-2804A	2.8	2.1	10	3.0	0.1	4	650	1.8	115±1

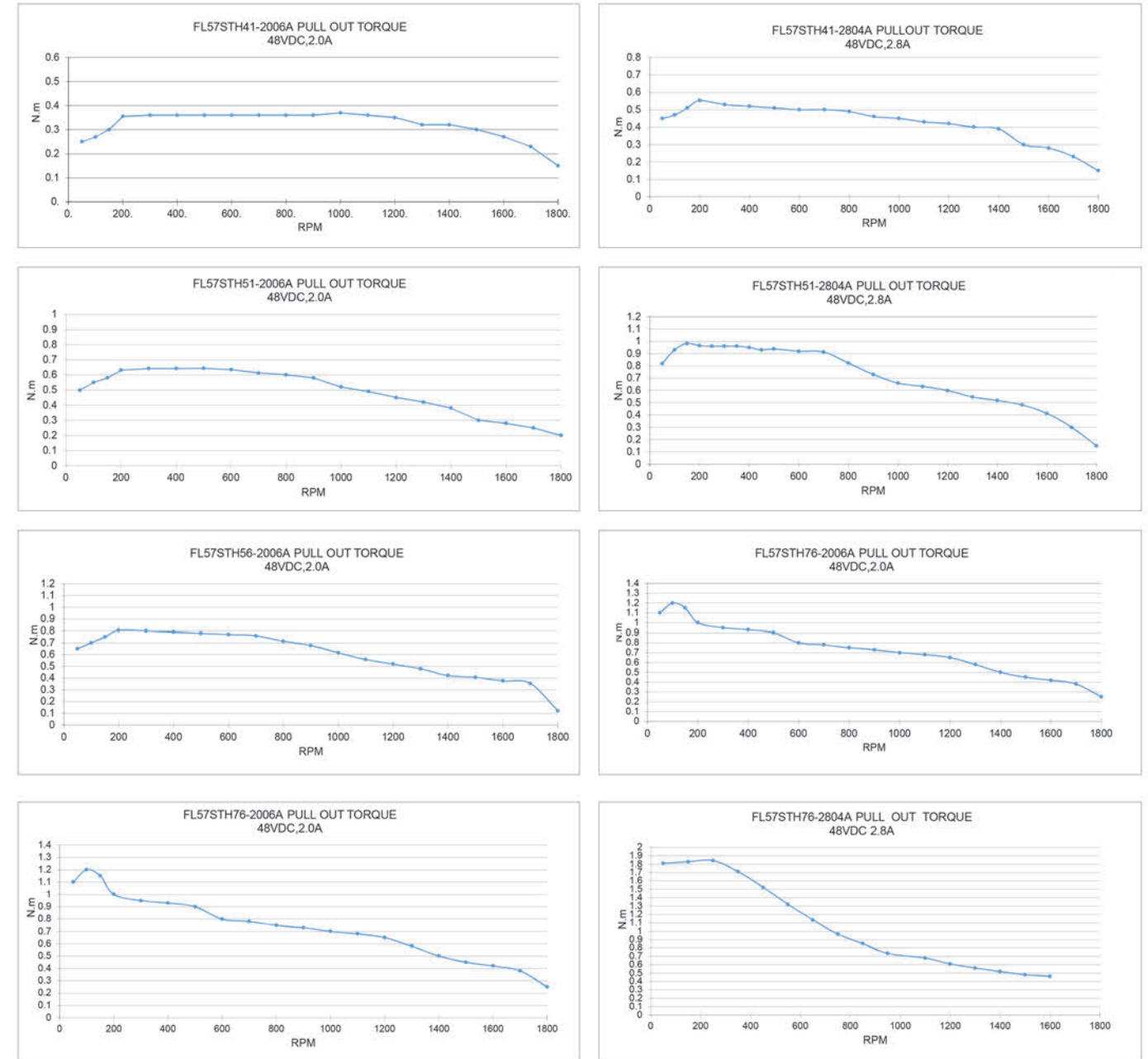
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

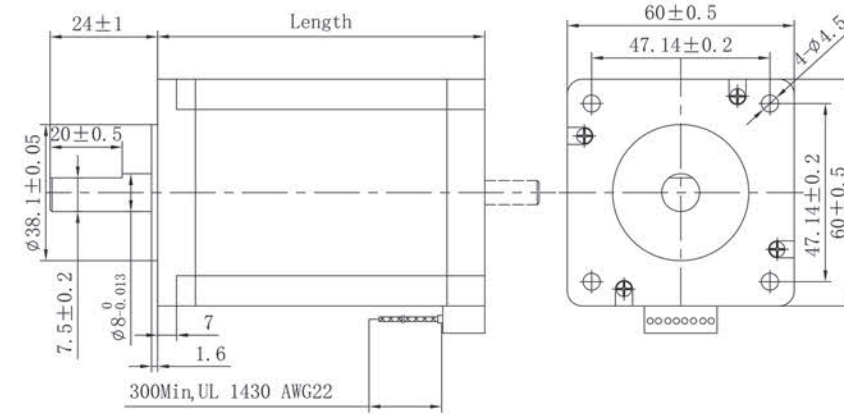
特性概要 (General specification)

选件 Options

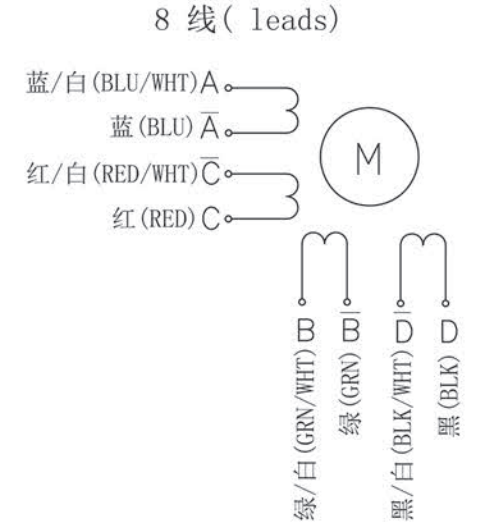


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	75N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	15N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20°C~+50°C
绝缘等级 (Insulation Class)	Class B

机械尺寸 (Dimension)



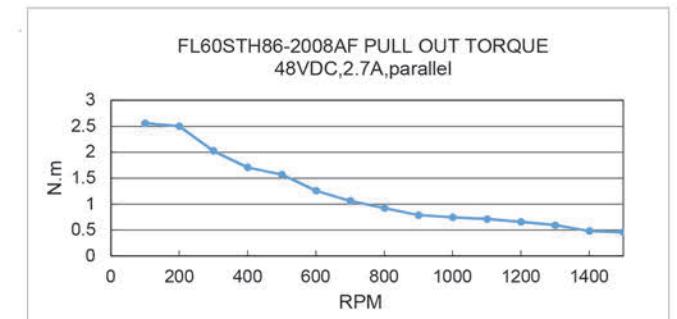
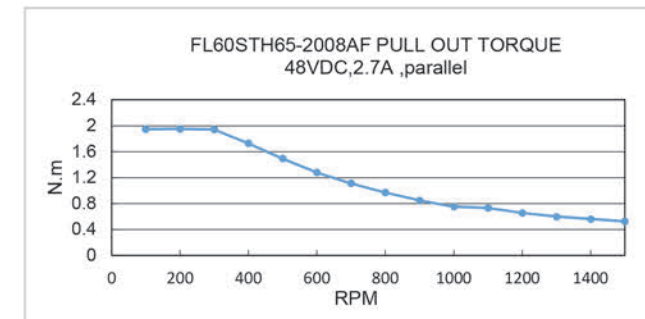
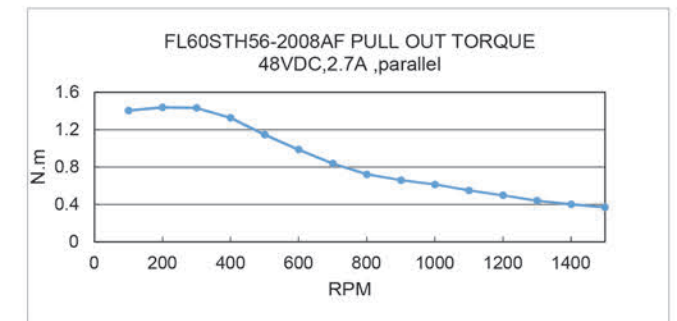
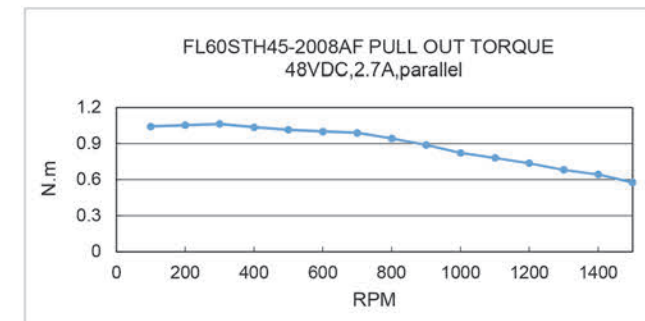
接线图 (Wiring Diagram)



电性能 (Electrical specifications)

型号 (Model No.)		Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
单轴(Single shaft)		A	Ω	mH	N.m	N.m	#	g-cm ²	kg	mm
FL60STH45-2008AF	单极性(unipolar)	2	1.5	2	0.78	0.05	8	275	0.6	47±1
	并联(parallel)	2.8	0.75	2	1.1					
	串联(series)	1.4	3.0	8	1.1					
FL60STH56-2008AF	单极性(unipolar)	2	1.8	3.6	1.17	0.07	8	400	0.77	56±1
	并联(parallel)	2.8	0.9	3.6	1.65					
	串联(series)	1.4	3.6	14.4	1.65					
FL60STH65-2008AF	单极性(unipolar)	2	2.4	4.6	1.5	0.09	8	570	1.2	67±1
	并联(parallel)	2.8	1.2	4.6	2.1					
	串联(series)	1.4	4.8	18.4	2.1					
FL60STH86-2008AF	单极性(unipolar)	2	3	6.8	2.1	0.12	8	840	1.4	88±1
	并联(parallel)	2.8	1.5	6.8	3.0					
	串联(series)	1.4	6	27.2	3.0					

矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

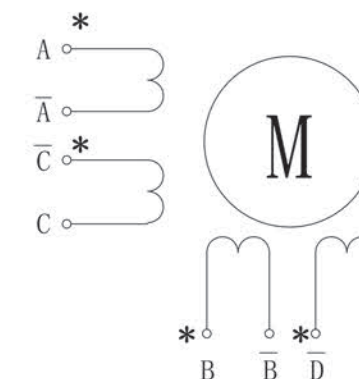
选件 Options



项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	220N 距法兰 20mm 220N @ 20mm from the flange
最大轴向负载 (Max. axial force)	60N
介电强度 (Dielectric Strength)	820VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

接线图 (Wiring Diagram)

- A: 橙 (ORG)
- \bar{A} : 橙白 (ORG/WHT)
- \bar{C} : 黑白 (BLK/WHT)
- C: 黑 (BLK)
- B: 红 (RED)
- \bar{B} : 红白 (RED/WHT)
- \bar{D} : 黄白 (YEL/WHT)
- D: 黄 (YEL)

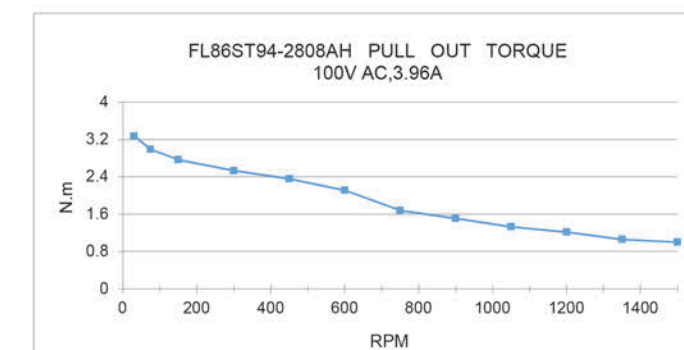
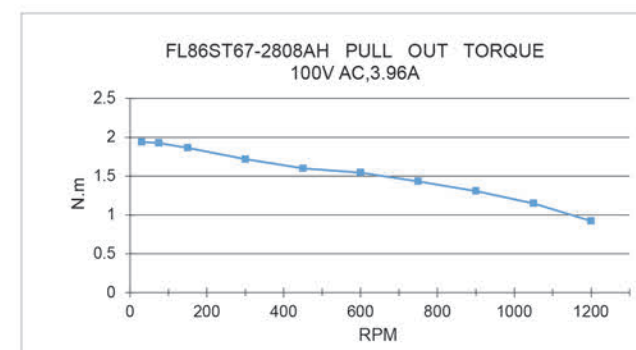


* start of the coil

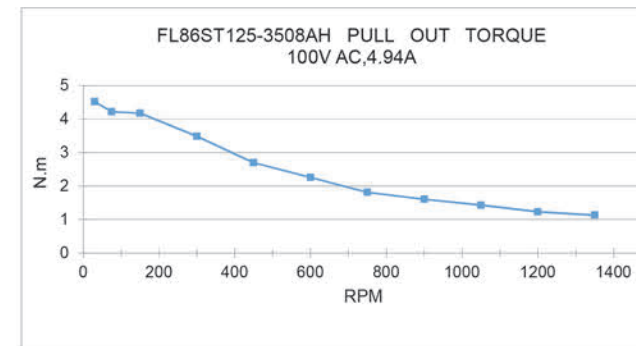
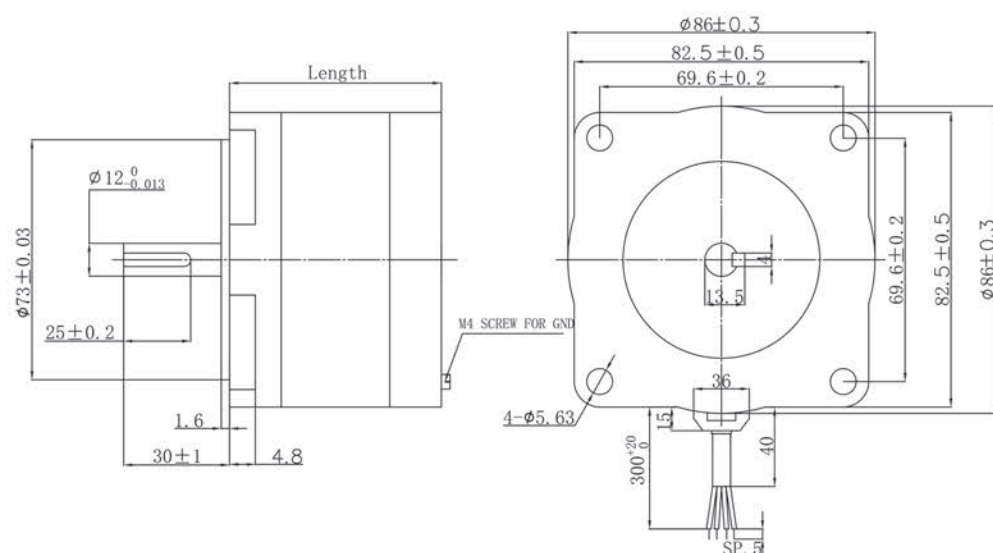
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g-cm ²	kg	mm
FL86ST67-2808AH	2.8	1.3	5.1	2.8	0.12	8	660	1.6	67±1
FL86ST94-2808AH	2.8	1.7	7.7	4.8	0.18	8	1200	2.4	94±1
FL86ST125-3508AH	3.5	1.42	7.9	7.6	0.23	8	1800	3.6	125±1

矩频曲线 (Pull out torque curve)



机械尺寸 (Dimension)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

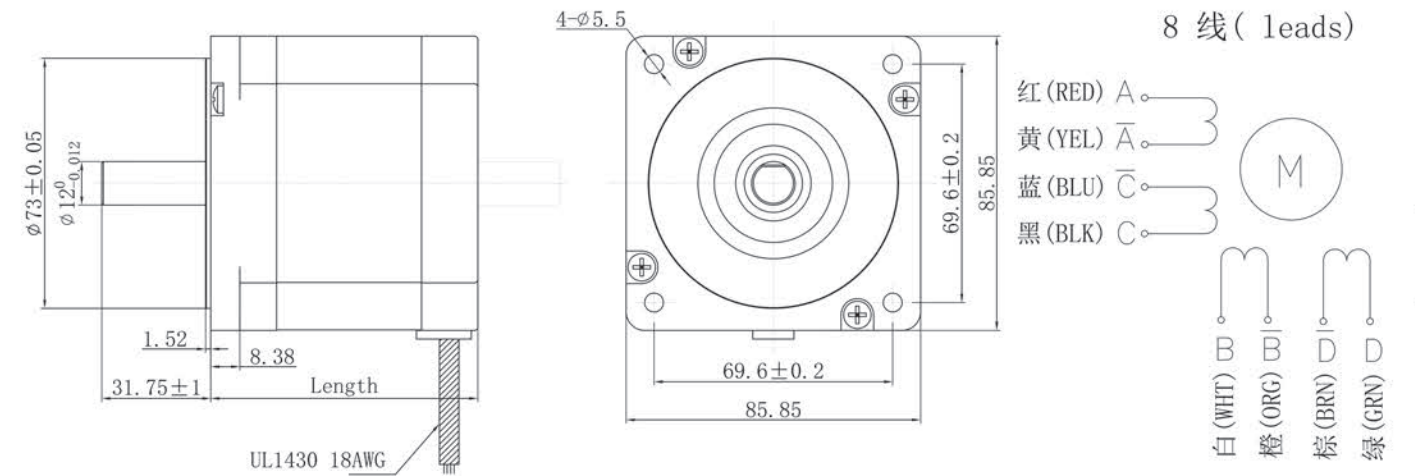


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	220N 距法兰 20mm 220N @ 20mm from the flange
最大轴向负载 (Max. axial force)	60N
介电强度 (Dielectric Strength)	1200VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

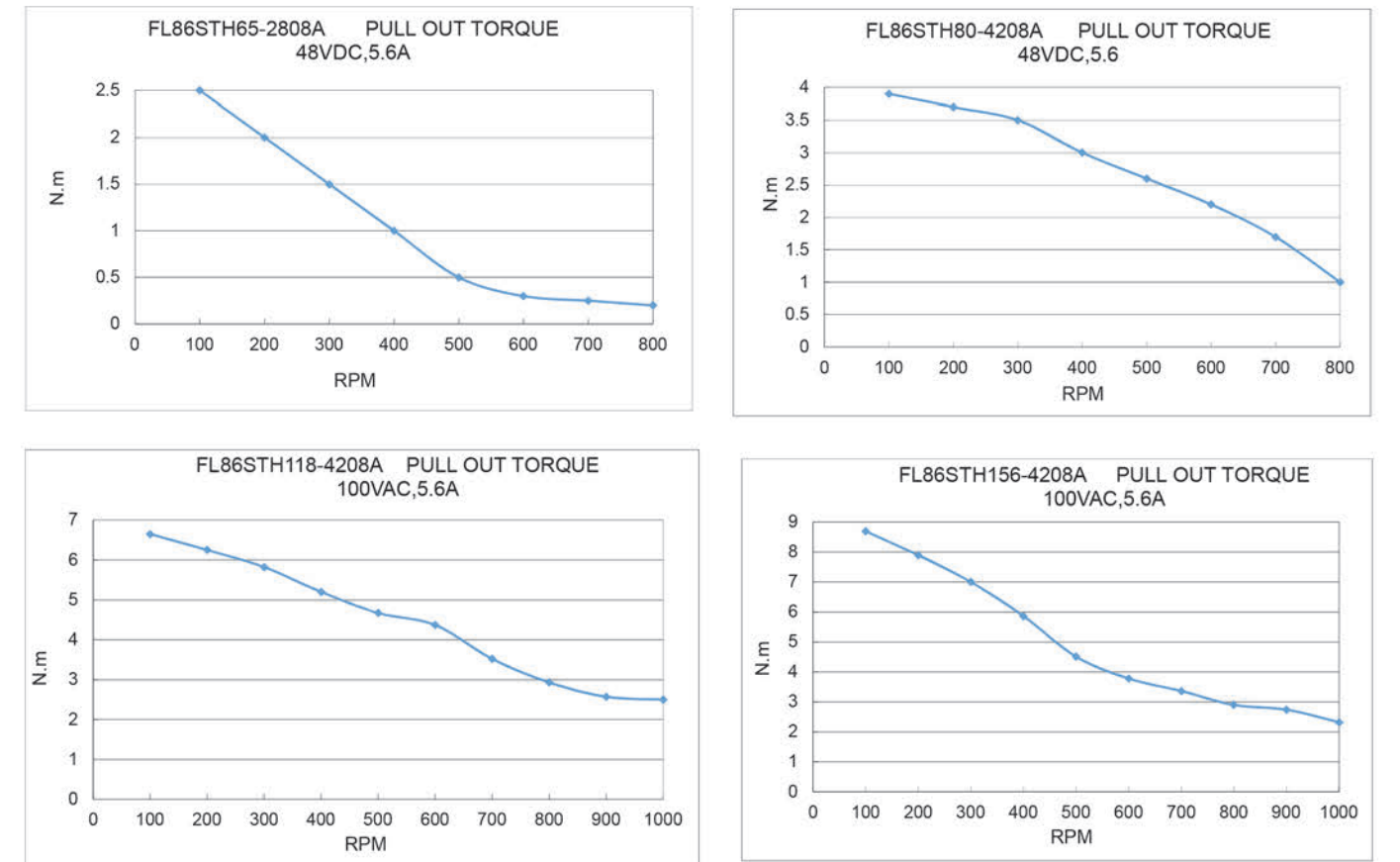
电性能 (Electrical specifications)

型号 (Model No.)		Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)		A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL86STH65-2808A	单极性 unipolar	2.8	1.3	3.9	2.2	0.08	8	1000	1.7	65
	串联 series	2	2.6	15.6	3.5					
	并联 parallel	4	0.65	3.9	3.5					
FL86STH80-4208A	单极性 unipolar	4.2	0.65	3	3.2	0.12	8	1400	2.3	80
	串联 series	3	1.3	12	4.5					
	并联 parallel	6	0.325	3	4.5					
FL86STH118-4208A	单极性 unipolar	4.2	0.99	6	6	0.24	8	2700	3.8	118
	串联 series	3	1.98	24	8.5					
	并联 parallel	6	0.495	6	8.5					
FL86STH156-4208A	单极性 unipolar	4.2	1.25	8	8.4	0.36	8	4000	5.3	156
	串联 series	3	2.5	32	12					
	并联 parallel	6	0.63	8	12					

机械尺寸 (Dimension)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

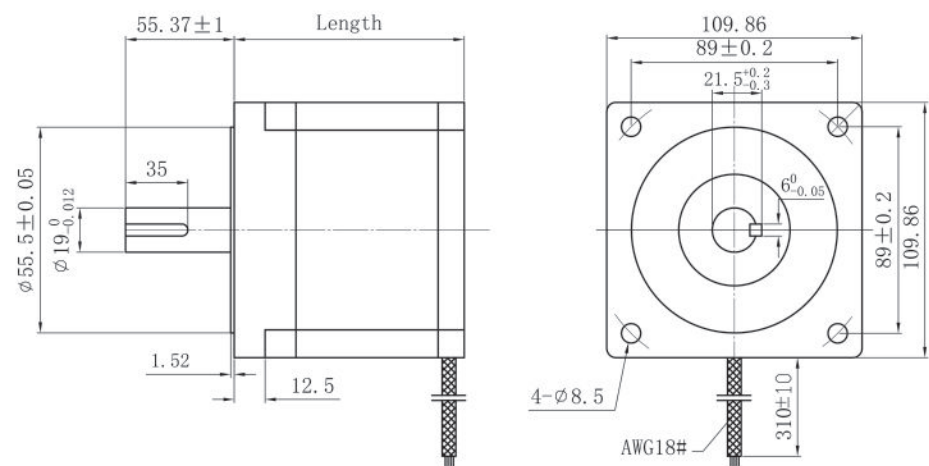


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	330N 距法兰 20mm 330N @ 20mm from the flange
最大轴向负载 (Max. axial force)	100N
介电强度 (Dielectric Strength)	1200VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20°C~+50°C
绝缘等级 (Insulation Class)	Class B

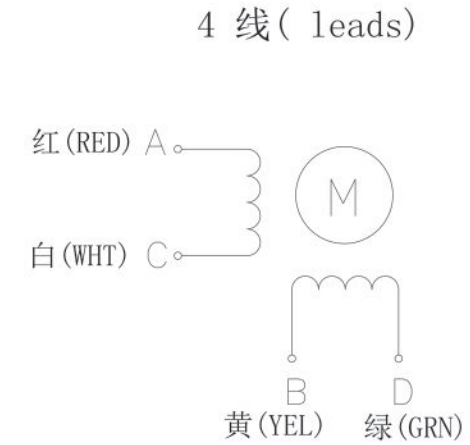
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
	A	Ω	mH	N.m	N.m	#	kg-cm	kg	mm
单轴(Single shaft)									
FL110STH99-5504A	5.5	0.7	9.8	11.2	0.55	4	3	5	99±1
FL110STH150-6504A	6.5	0.72	11.5	21	1.09	4	5.9	8.4	150±1
FL110STH201-8004A	8	0.67	12	28	1.62	4	7.5	11.7	201±1

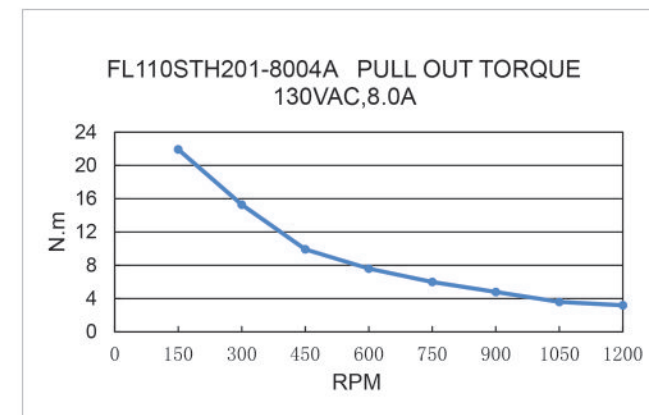
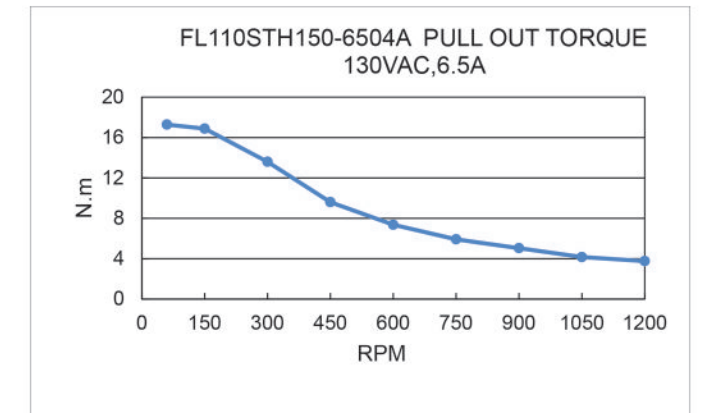
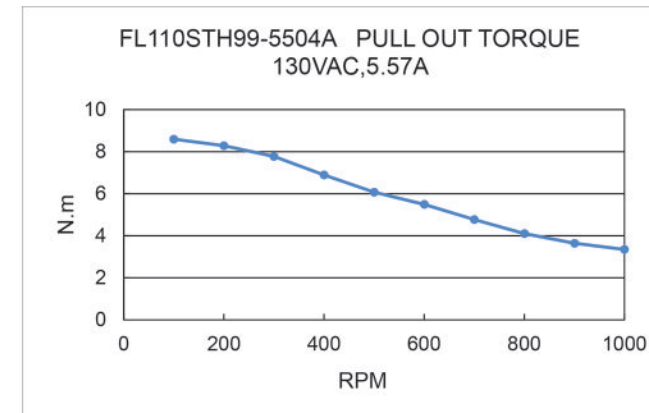
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)



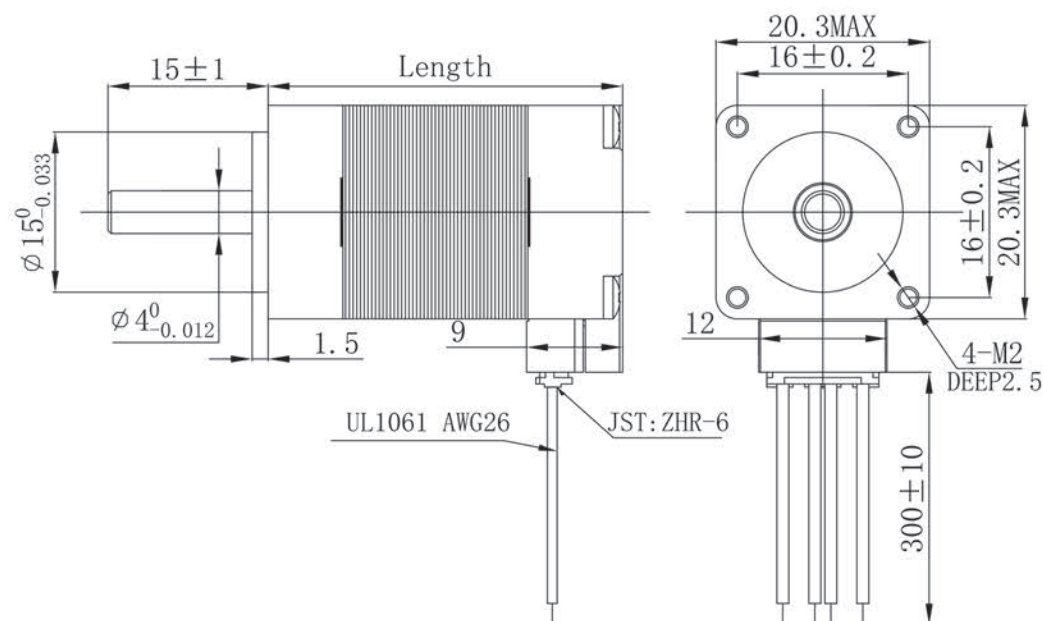
选件 Options
Connector 接插件
Gearbox 齿轮箱

项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	10N
最大轴向负载 (Max. axial force)	4N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

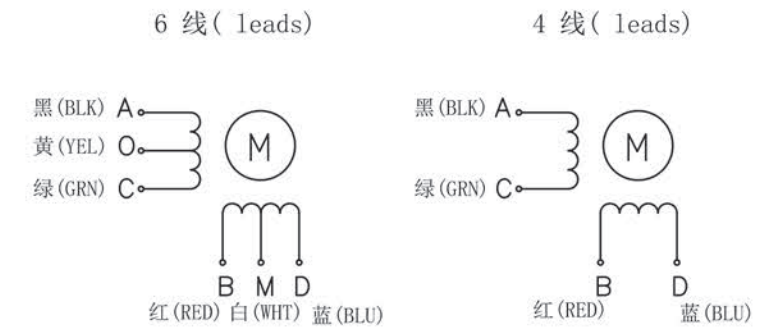
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL20STC33-0604A	0.6	6.4	2.6	0.022	0.002	4	2	0.06	33

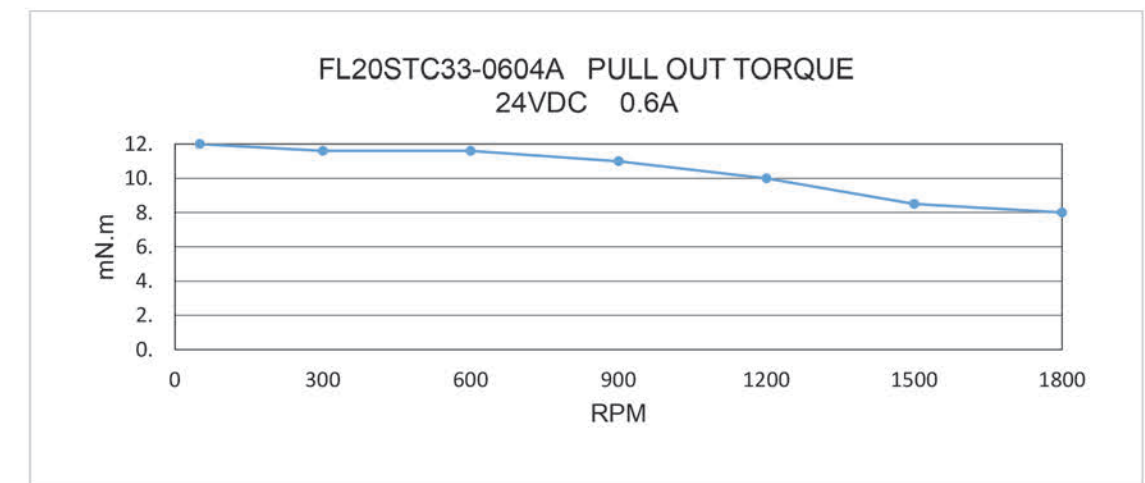
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)



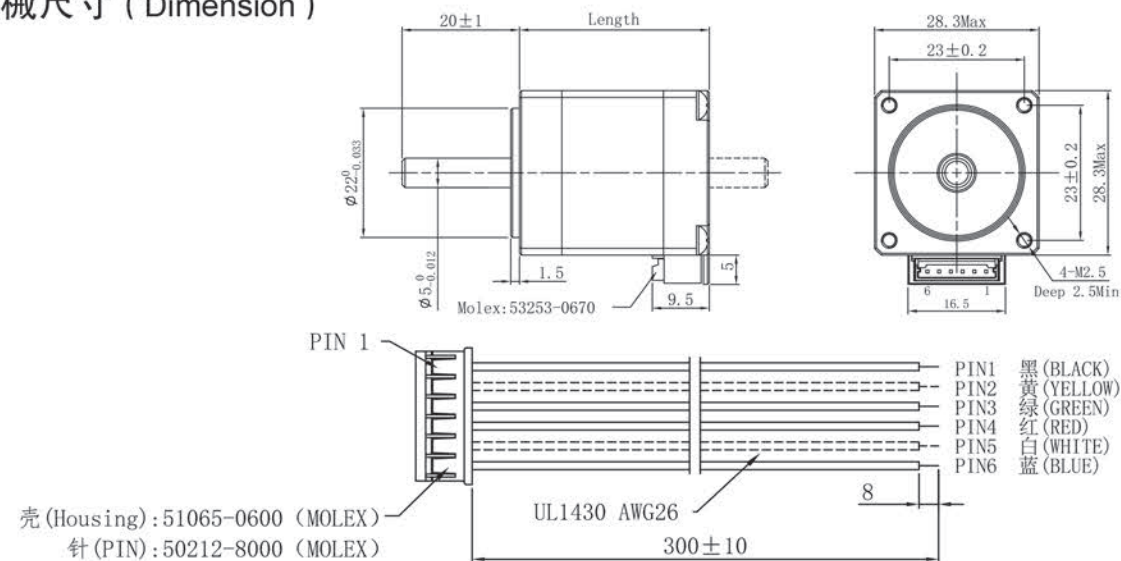
选件 Options
接插件 Connector
齿轮箱 Gearbox

项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@400 g
轴向间隙 (Axial Play)	0.08mm@400 g
最大径向负载 (Max. radial force)	28N 距法兰 5mm (5mm from the flange)
最大轴向负载 (Max. axial force)	7N
介电强度 (Dielectric Strength)	600VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

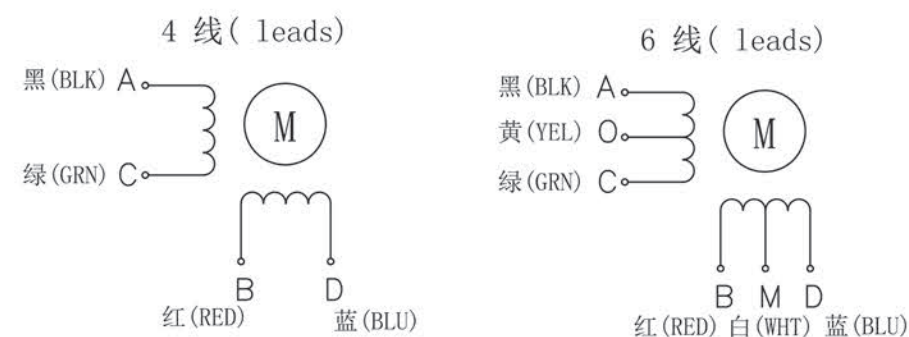
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL28STC32-0674A	0.67	5.6	4.0	0.065	0.005	4	9	0.11	32±1
FL28STC32-0956A	0.95	2.8	1.0	0.050	0.005	6	9	0.11	32±1
FL28STC40-0674A	0.67	6.8	4.8	0.097	0.006	4	12	0.14	40±1
FL28STC40-0956A	0.95	3.4	1.2	0.075	0.006	6	12	0.14	40±1
FL28STC51-0674A	0.67	9.2	5.6	0.120	0.008	4	18	0.20	51.5±1
FL28STC51-0956A	0.95	4.6	1.45	0.090	0.008	6	18	0.20	51.5±1

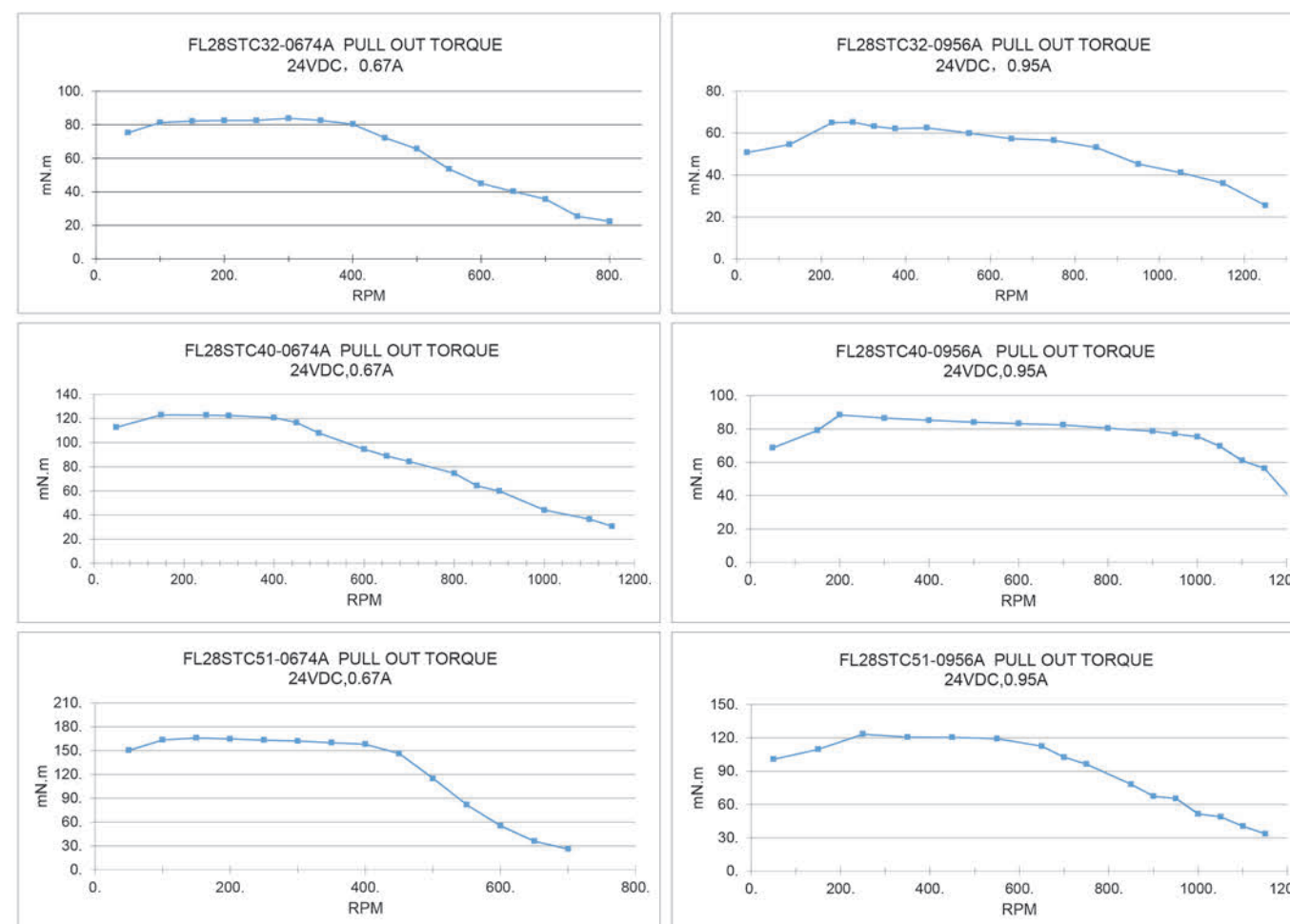
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)



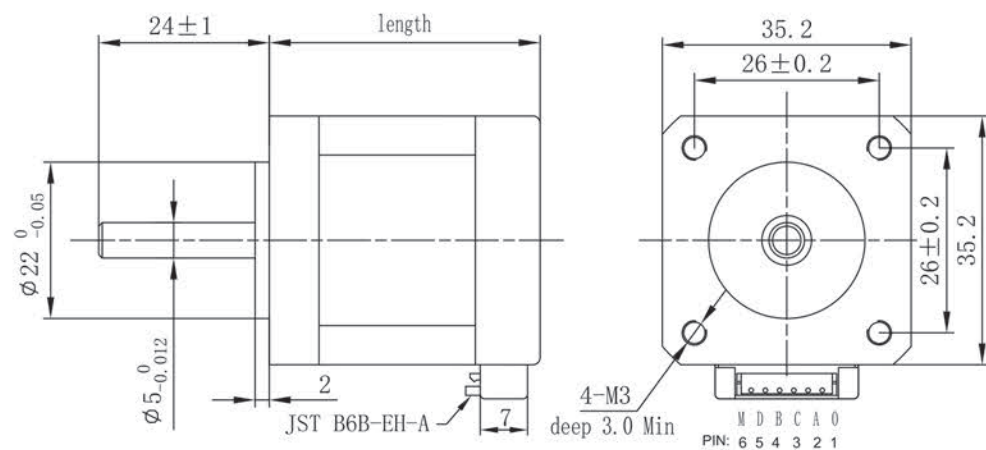
选件 Options
 Connector 接插件
 Gearbox 齿轮箱

项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	10N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

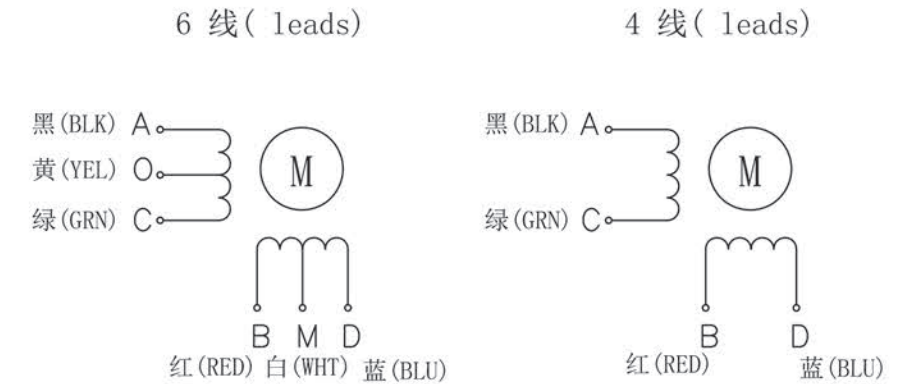
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相电流	Resistance /Phase 每相电阻	Inductance /Phase 每相电感	Holding Torque 保持转矩	Detent Torque 定位转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL35STC38-1204AC	1.2	3.2	4.0	0.23	0.018	4	20	0.21	38±1
FL35STC44-1204AC	1.2	3.2	5.2	0.28	0.02	4	28	0.23	44±1

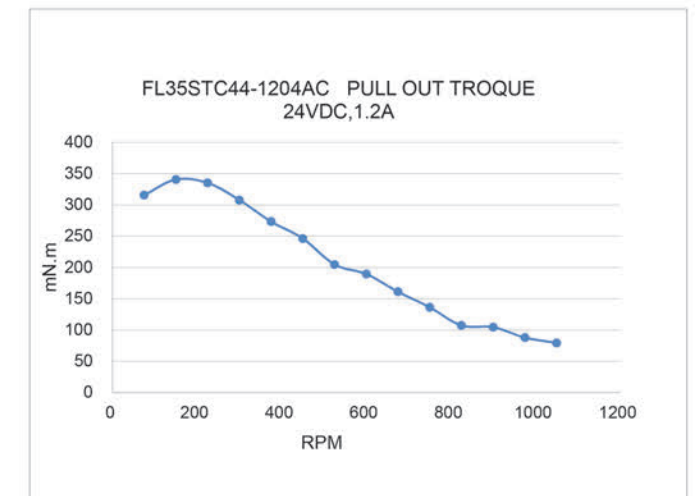
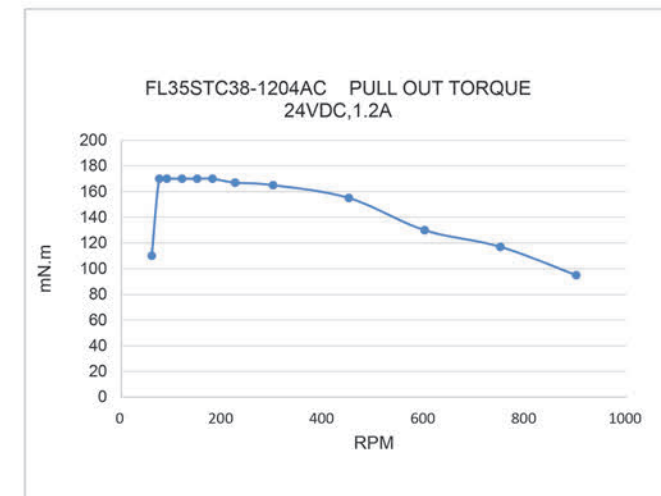
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



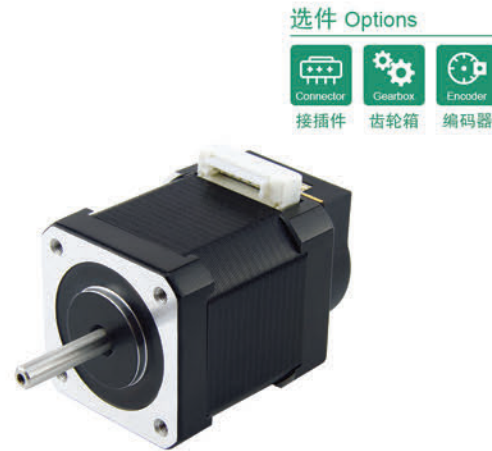
矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

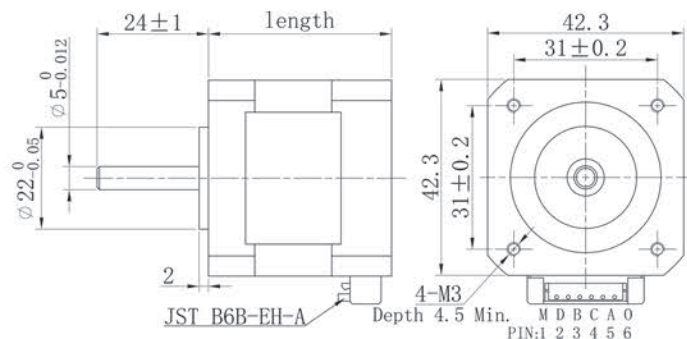


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	10N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

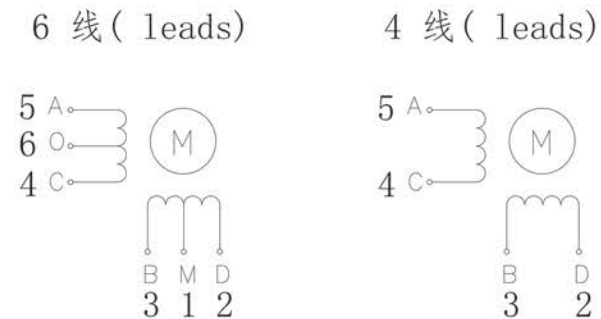
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL42STC33-0956A	0.95	4.2	2.5	0.16	0.012	6	35	0.22	33.5±1
FL42STC33-1334A	1.33	2.1	2.5	0.22		4			
FL42STC38-1206A	1.2	3.3	3.2	0.26	0.015	6	54	0.28	39.5±1
FL42STC38-1684A	1.68	1.65	3.2	0.36		4			
FL42STC47-1206A	1.2	3.3	2.8	0.317	0.02	6	68	0.35	47.5±1
FL42STC47-1684A	1.68	1.65	2.8	0.44		4			
FL42STC60-1206A	1.2	6	7	0.56	0.028	6	102	0.5	60±1

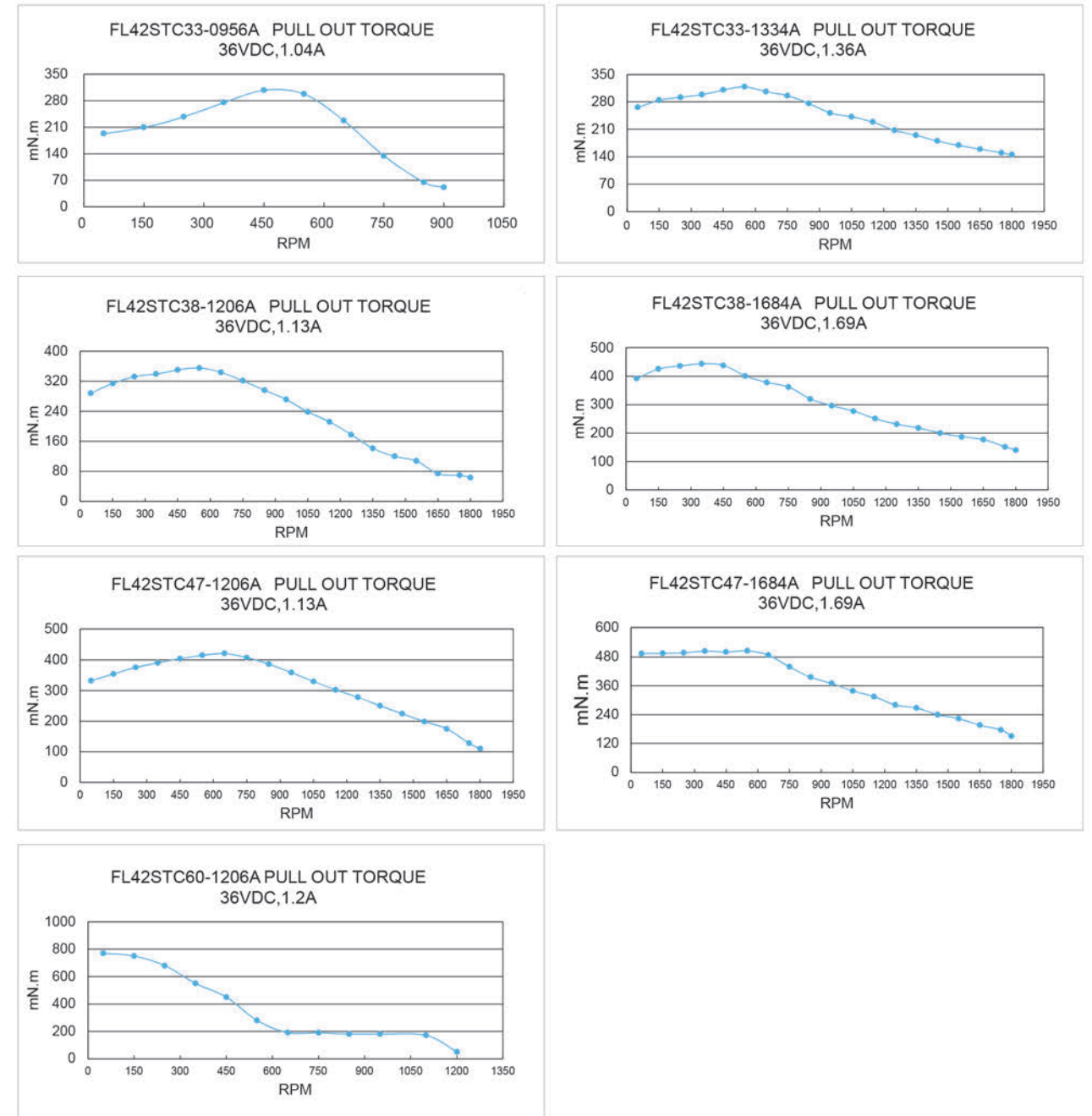
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



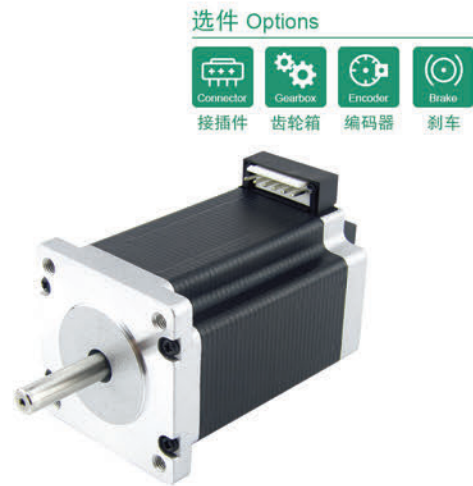
矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

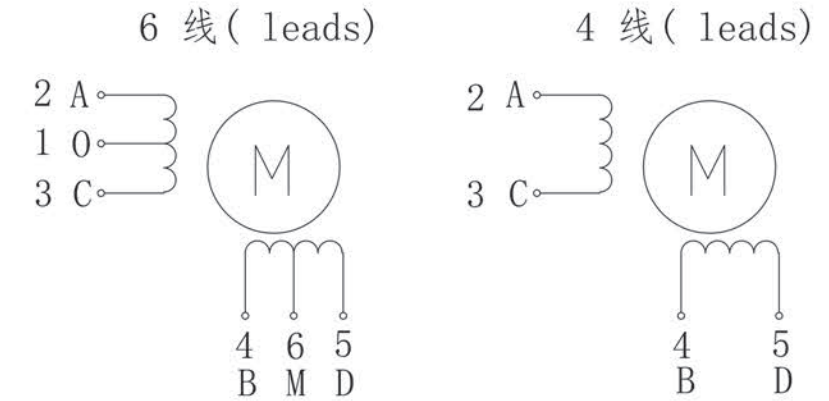
The motor can be designed & manufactured with customized request.

特性概要 (General specification)



项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	75N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	15N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20°C~+50°C
绝缘等级 (Insulation Class)	Class B

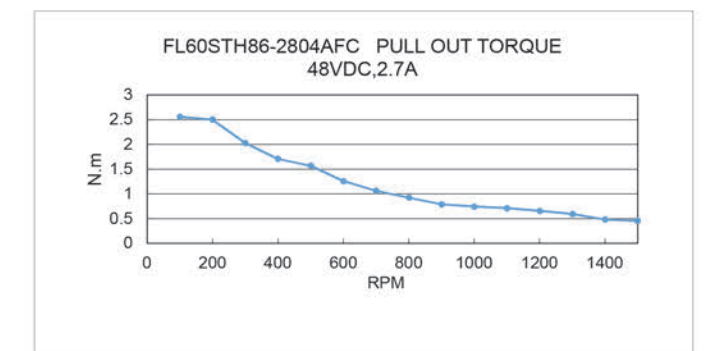
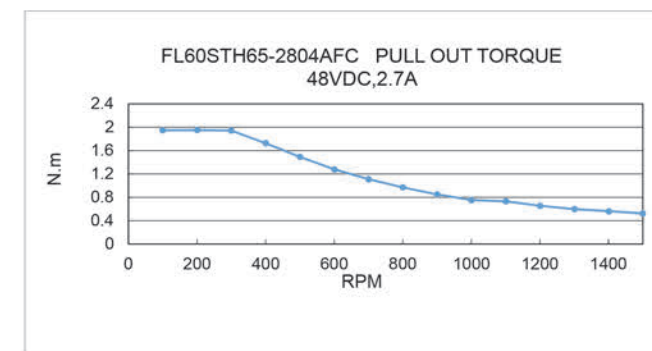
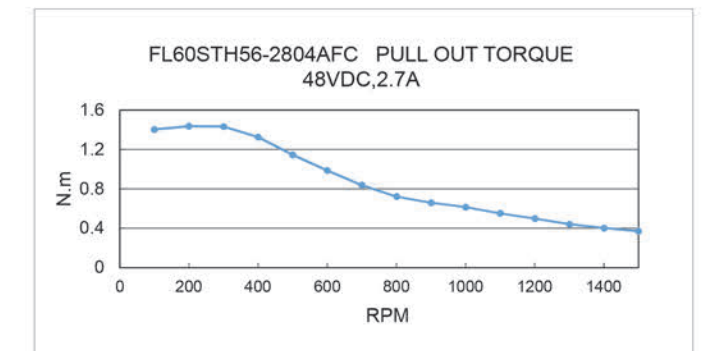
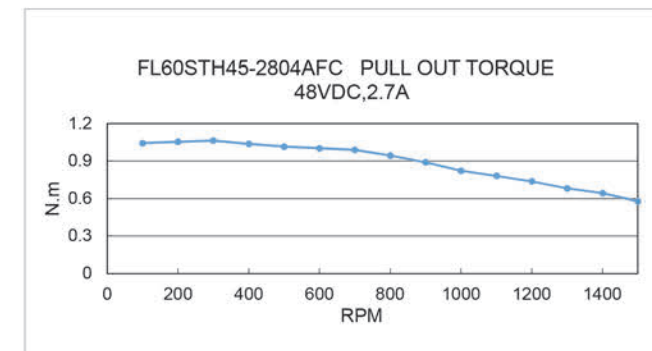
接线图 (Wiring Diagram)



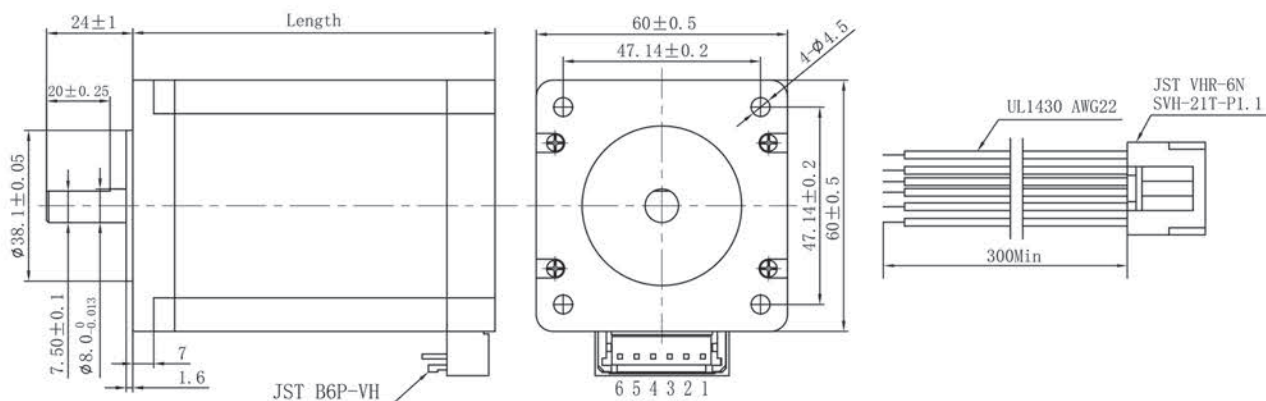
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
单轴(Single shaft)	A	Ω	mH	N.m	N.m	#	g-cm ²	kg	mm
FL60STH45-2804AFC	2.8	0.75	2	1.1	0.05	4	275	0.6	47±1
FL60STH56-2804AFC	2.8	0.9	3.6	1.65	0.07	4	400	0.77	56±1
FL60STH65-2804AFC	2.8	1.2	4.6	2.1	0.09	4	570	1.2	67±1
FL60STH86-2804AFC	2.8	1.5	6.8	3.0	0.12	4	840	1.4	88±1

矩频曲线 (Pull out torque curve)



机械尺寸 (Dimension)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

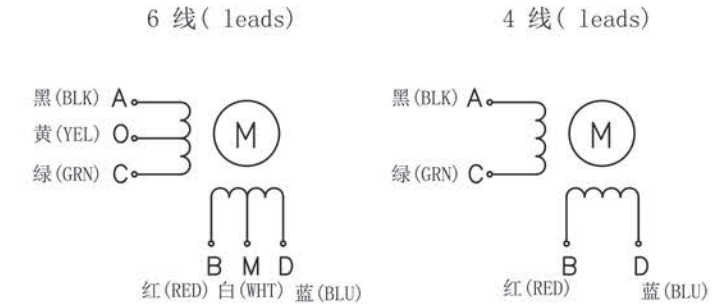
特性概要 (General specification)

选件 Options



项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	75N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	15N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

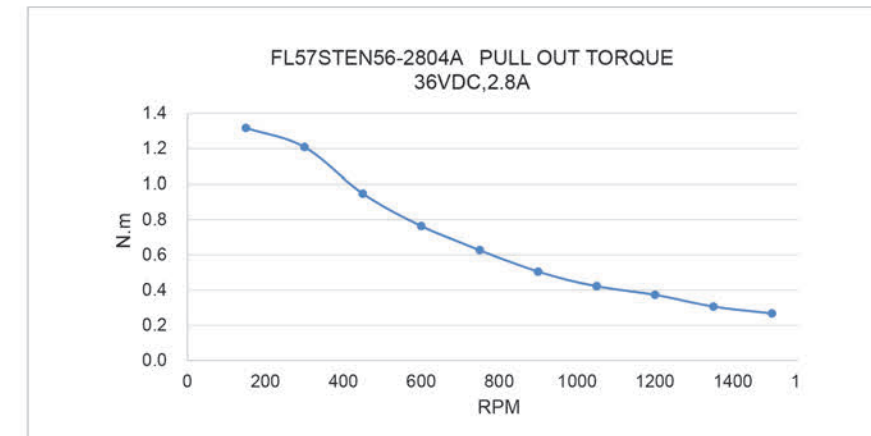
接线图 (Wiring Diagram)



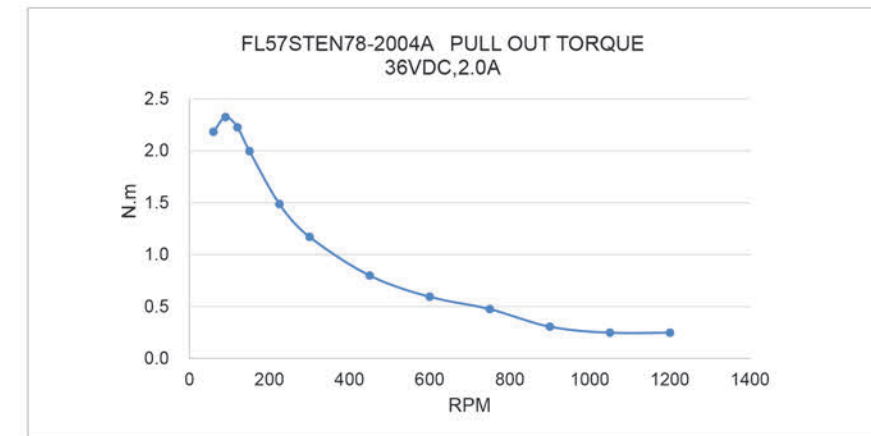
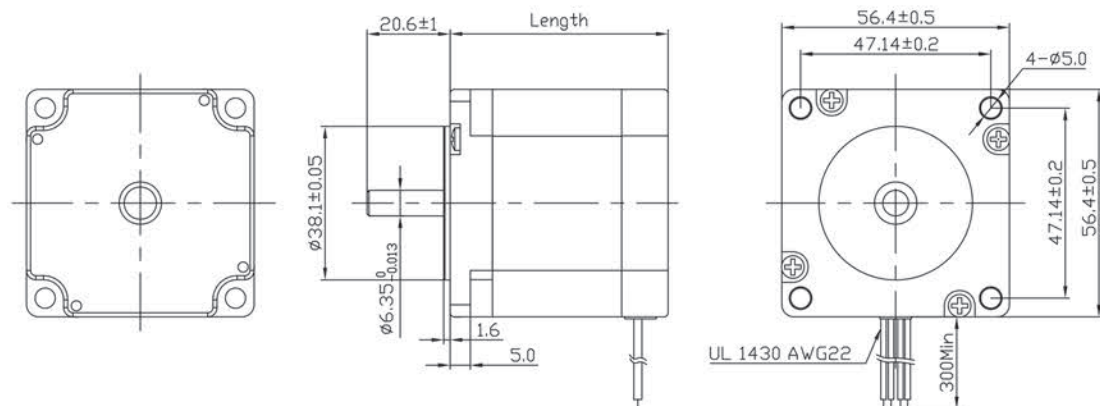
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL57STEN56-2804A	2.8	0.9	2.5	1.5	0.06	4	300	0.7	56Max
FL57STEN78-2004A	2.0	2.1	6.9	2.8	0.12	4	500	1.1	78±1

矩频曲线 (Pull out torque curve)



机械尺寸 (Dimension)

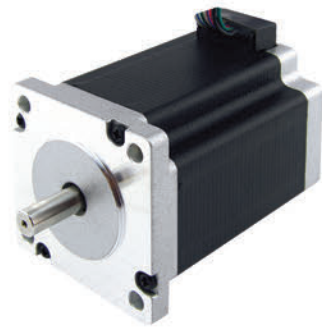


该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

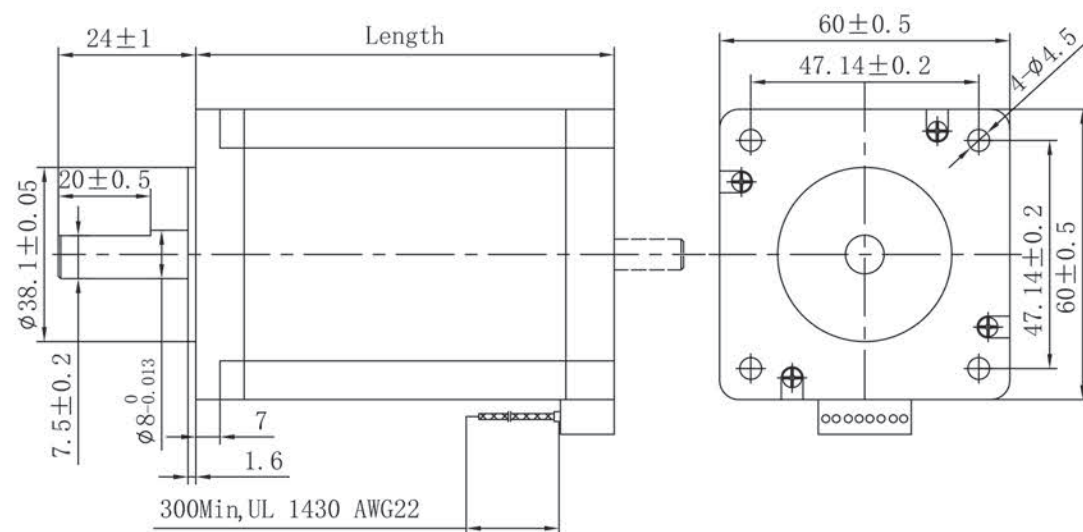


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	75N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	15N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20°C~+50°C
绝缘等级 (Insulation Class)	Class B

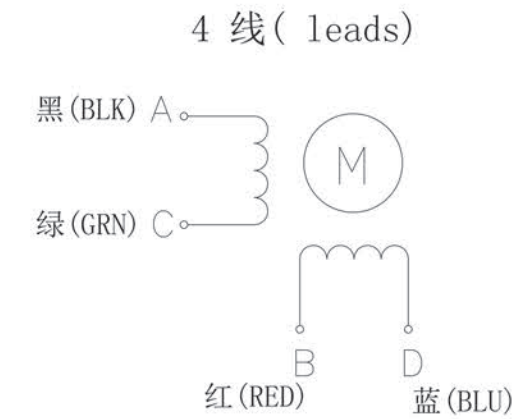
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g-cm ²	kg	mm
FL60STEN86-2804AF	2.8	1.47	4.5	3.6	0.24	4	920	1.5	88±1

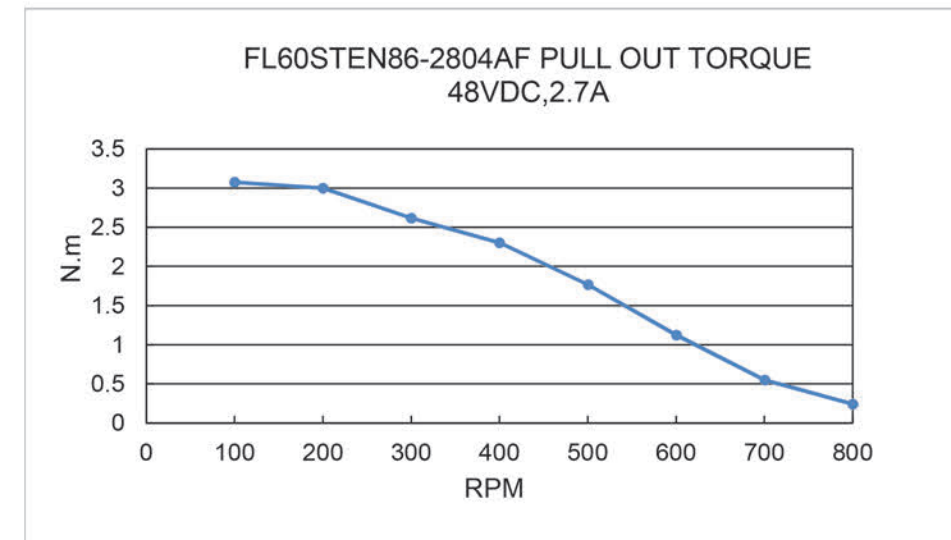
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

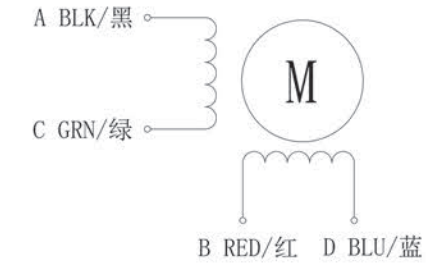
The motor can be designed & manufactured with customized request.

特性概要 (General specification)



项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步, 空载)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	75N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	15N
介电强度 (Dielectric Strength)	600VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20° C~+50° C
绝缘等级 (Insulation Class)	Class B
防护等级 (IP CODE)	IP65

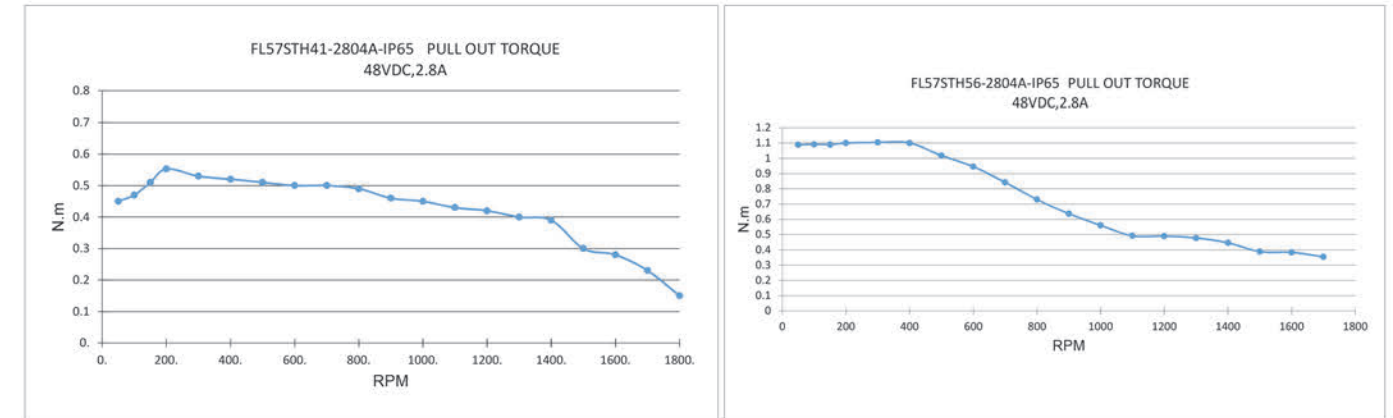
接线图 (Wiring Diagram)



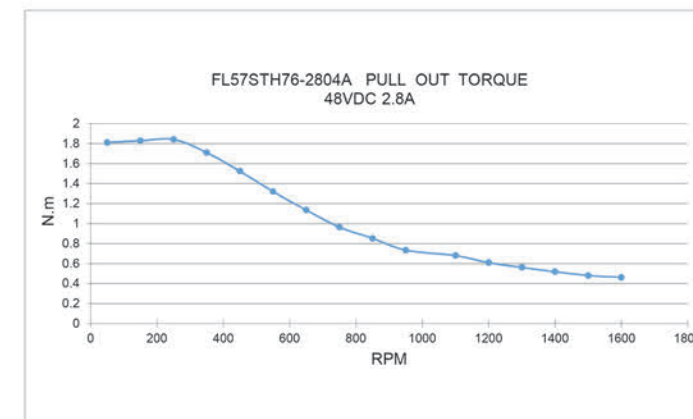
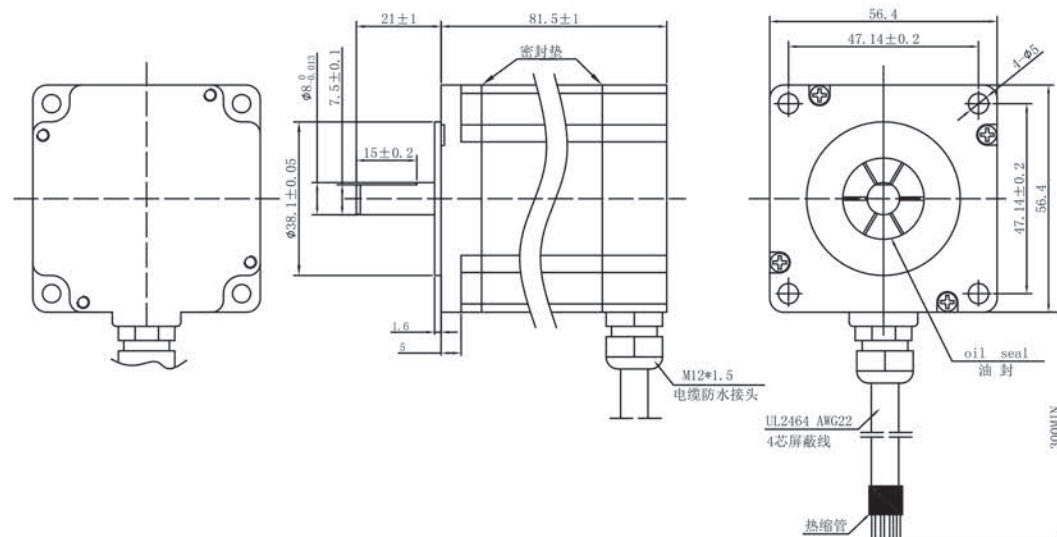
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL57STH41-2804A-IP65	2.8	0.7	1.4	0.55	0.02	4	120	0.6	46.5±1
FL57STH56-2804A-IP65	2.8	0.9	2.5	1.26	0.04	4	300	0.9	60.5±1
FL57STH76-2804A-IP65	2.8	1.13	3.6	1.89	0.068	4	480	1.2	81.5±1

矩频曲线 (Pull out torque curve)



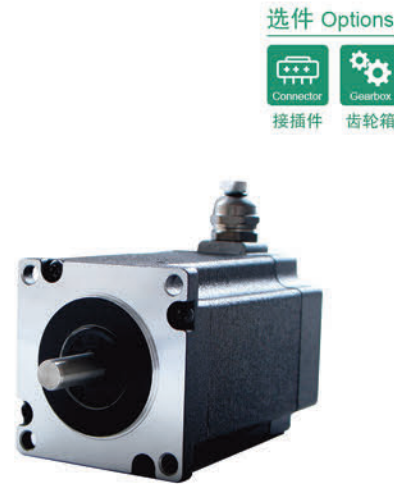
机械尺寸 (Dimension)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)



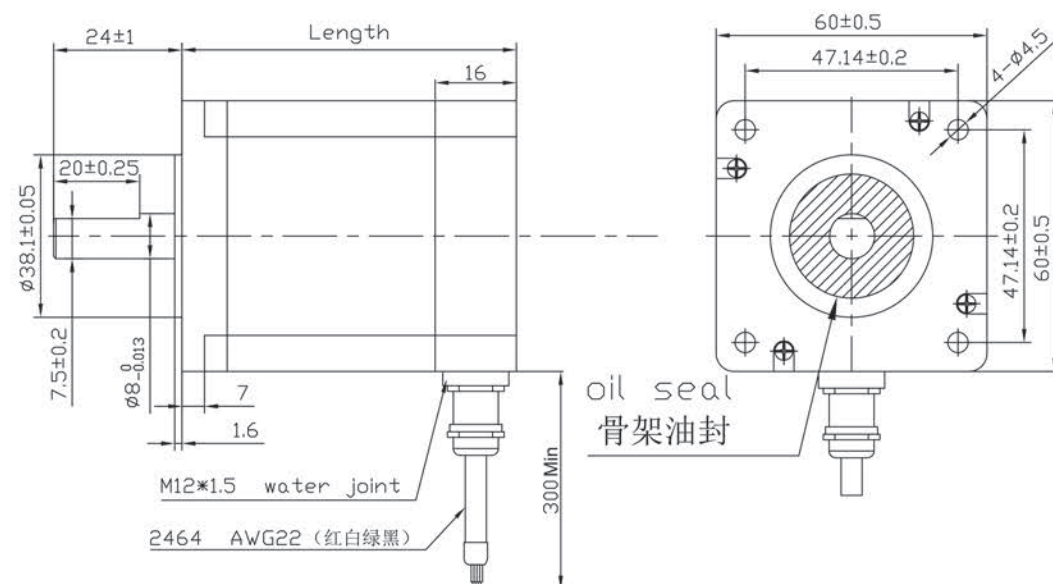
选件 Options
Connector 接插件
Gearbox 齿轮箱

项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步, 空载)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	75N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	15N
介电强度 (Dielectric Strength)	600VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20°C~+50°C
绝缘等级 (Insulation Class)	Class B
防护等级 (IP CODE)	IP65

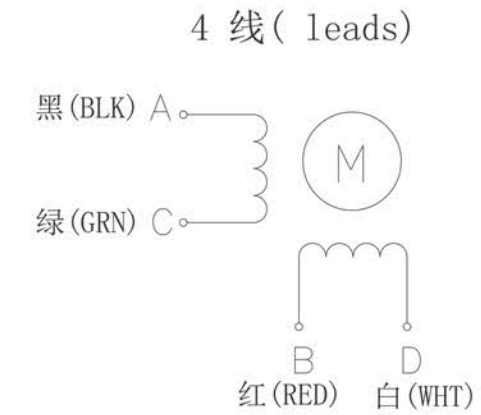
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
	A	Ω	mH	N.m	N.m	#	g-cm ²	kg	mm
Single shaft (单出轴) FL60STH86-2804AF-IP65	2.8	1.5	6.8	3.0	0.14	4	840	1.4	95±1

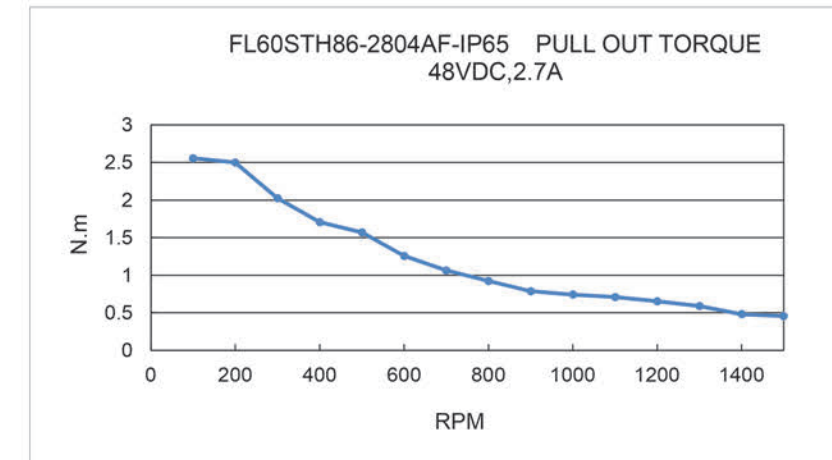
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)



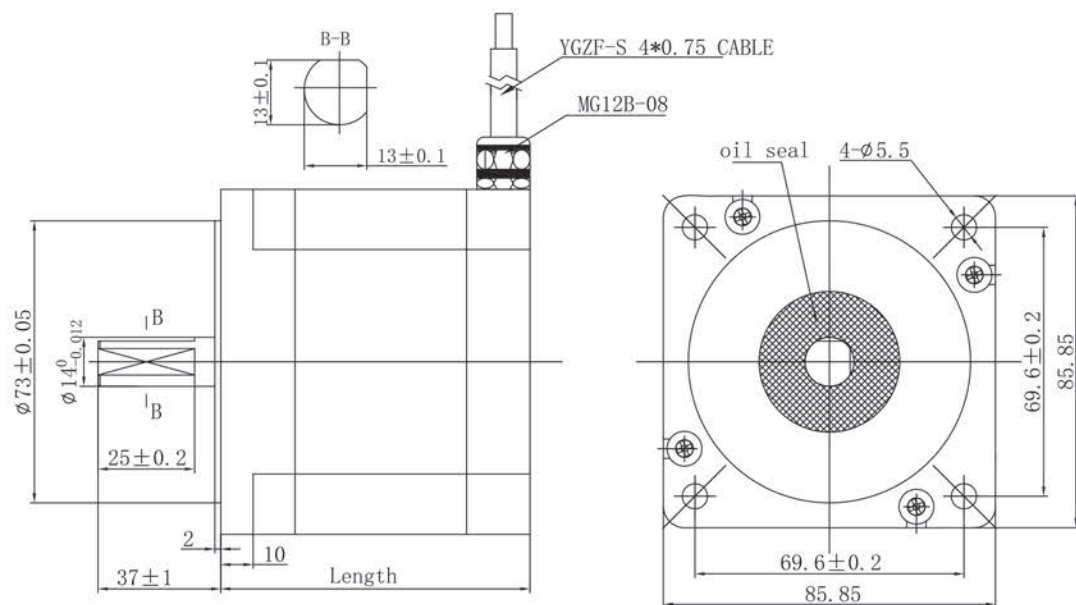
选件 Options
Connector 接插件
Gearbox 齿轮箱

项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	130N 距法兰 20mm 130N @ 20mm from the flange
最大轴向负载 (Max. axial force)	36N
介电强度 (Dielectric Strength)	900VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B
防护等级 (IP CODE)	IP65

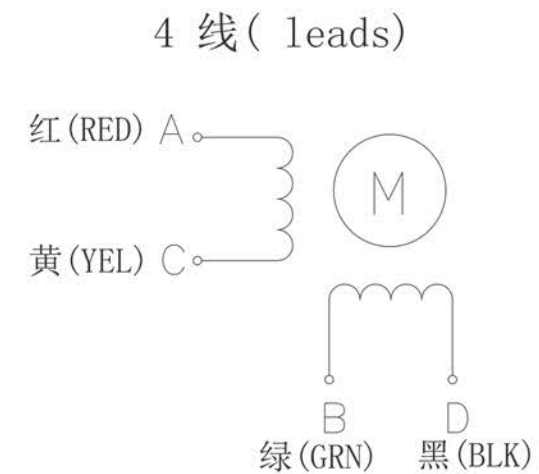
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
	A	Ω	mH	N.m	N.m	#	g-cm ²	kg	mm
Single shaft (单出轴) FL86STH126-7004A-IP65	7	0.48	4.4	9	0.4	4	3000	3.95	127

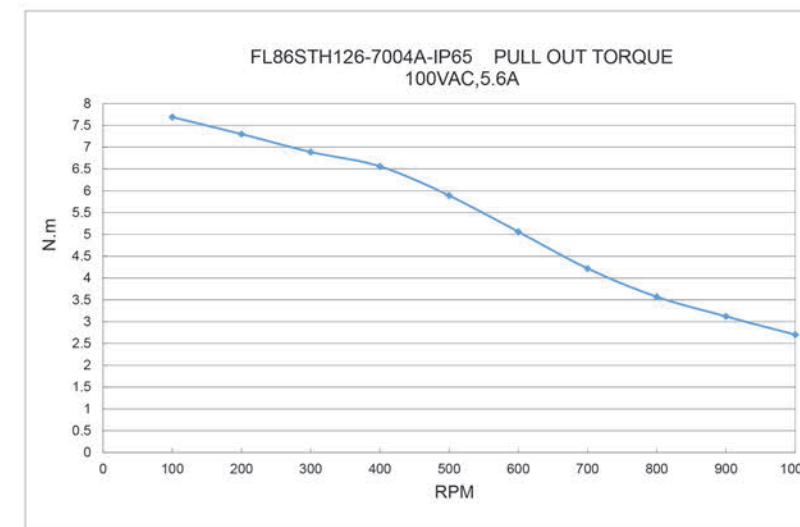
机械尺寸 (Dimension)



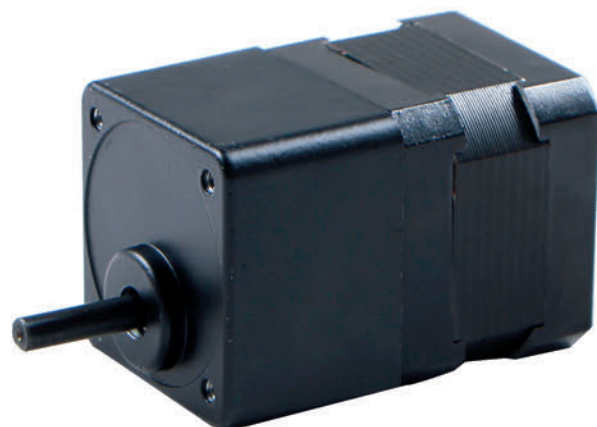
接线图 (Wiring Diagram)



矩频曲线 (Pull out torque curve)



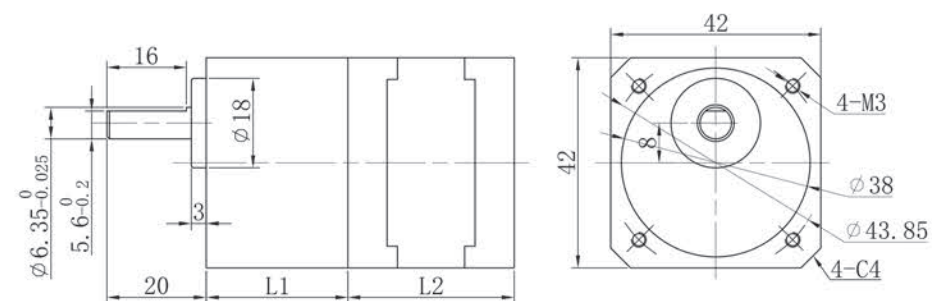
该款电机可以根据客户需求定制。
The motor can be designed & manufactured with customized request.



选件 Options



机械尺寸 (Dimension)



RATIO 减速比	L2(mm)		L1(mm)
	FL42STH33-42JB	FL42STH38-42JB	
3.6--36	33.5	39.5	28.5

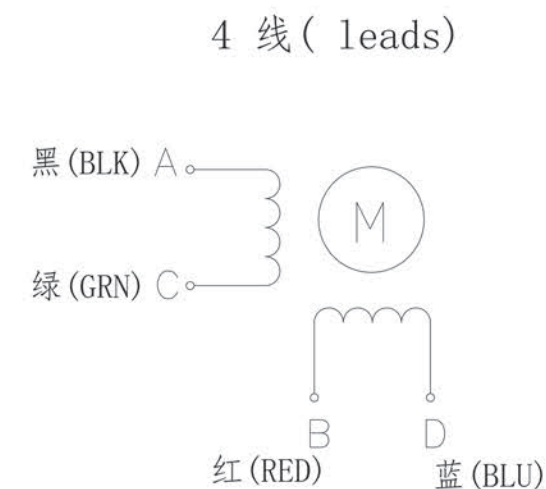
特性概要 (General specification)

Ratio 减速比	3.6	7.2	9	10	18	36
Weight 重量	0.1kg				0.125kg	0.15kg
Number of gear trains 减速级数	2				3	4
Nominal torque 额定转矩	2.5N.m					
Ultimate torque 极限转矩	3.0N.m					
Efficiency 效率	81%				72%	65%
Backlash 回差	0.6 deg				0.4deg	

齿轮箱电机性能 (Gear Motor Specifications)

Ratio 减速比		3.6	7.2	9	10	18	36
FL42STH33-42JB	Torque(N.m) (at 300rpm) 转矩(N.m) (在 300rpm)	0.5	1.1	1.3	1.45	2.3	-
	speed(rpm)转速(rpm)	83	41.5	33	30	16.5	-
FL42STH38-42JB	Torque(N.m) (at 300rpm) 转矩(N.m) (在 300rpm)	0.73	1.45	1.8	2.0	---	---
	speed(rpm)转速(rpm)	83	41	33	30	---	---

接线图 (Wiring Diagram)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.



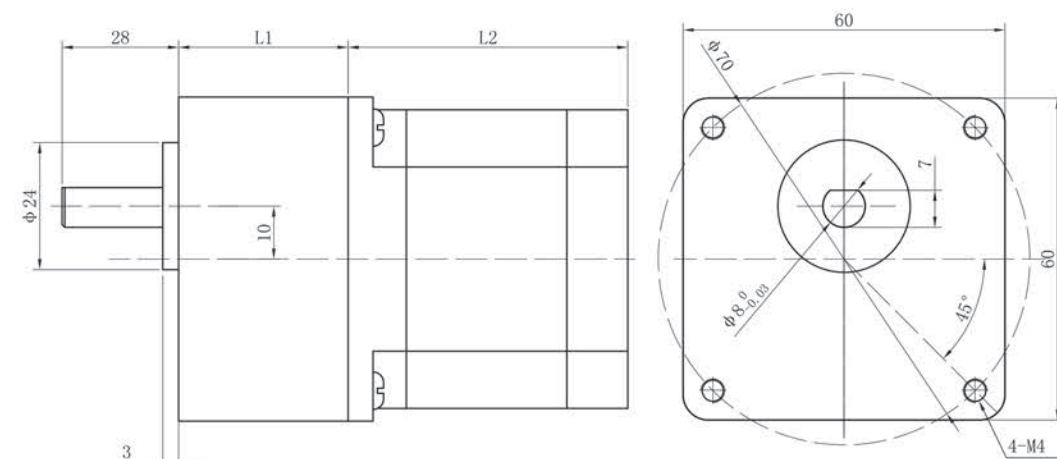
特性概要 (General specification)

Ratio 减速比	3	7.5	12.5	15	25	30	50	75	90	100	120	150
Weight (重量)	0.24kg			0.3kg								
Number of gear trains 减速级数	2			3			4					
Nominal torque 额定转矩	10N.m											
Ultimate torque 极限转矩	15N.m											
Efficiency 效率	81%			73%			66%					
Backlash 回差	4 deg			3.5deg			2.5deg					

齿轮箱电机性能 (Gear Motor Specifications)

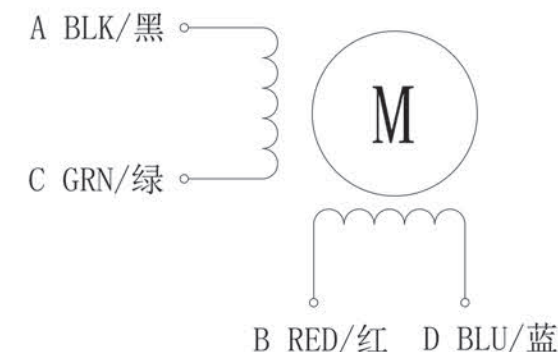
Ratio 减速比		3	7.5	12.5	15	25	30	50	75	90	100	120	150
FL57STH41-60JB	Torque(N.m) (at 300rpm) 转矩(N.m) (在 300rpm)	1.02	2.55	4.25	5.1	7.66	9.19	---	---	---	---	---	---
	speed(rpm)转速(rpm)	100	40	24	20	12	10	---	---	---	---	---	---
FL57STH51-60JB	Torque(N.m) (at 300rpm) 转矩(N.m) (在 300rpm)	1.78	4.25	7.08	8.5	---	---	---	---	---	---	---	---
	speed(rpm)转速(rpm)	100	40	24	20	---	---	---	---	---	---	---	---
FL57STH56-60JB	Torque(N.m) (at 300rpm) 转矩(N.m) (在 300rpm)	1.84	4.61	7.69	9.23	---	---	---	---	---	---	---	---
	speed(rpm)转速(rpm)	100	40	24	20	---	---	---	---	---	---	---	---
FL57STH76-60JB	Torque(N.m) (at 300rpm) 转矩(N.m) (在 300rpm)	2.91	7.29	---	---	---	---	---	---	---	---	---	---
	speed(rpm)转速(rpm)	100	40	---	---	---	---	---	---	---	---	---	---

机械尺寸 (Dimension)



RATIO 减速比	L2(mm)				L1(mm)
	FL57STH41-60JB	FL57STH51-60JB	FL57STH56-60JB	FL57STH76-60JB	
3---15	40	50	55	75	32
25---150					40

接线图 (Wiring Diagram)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.



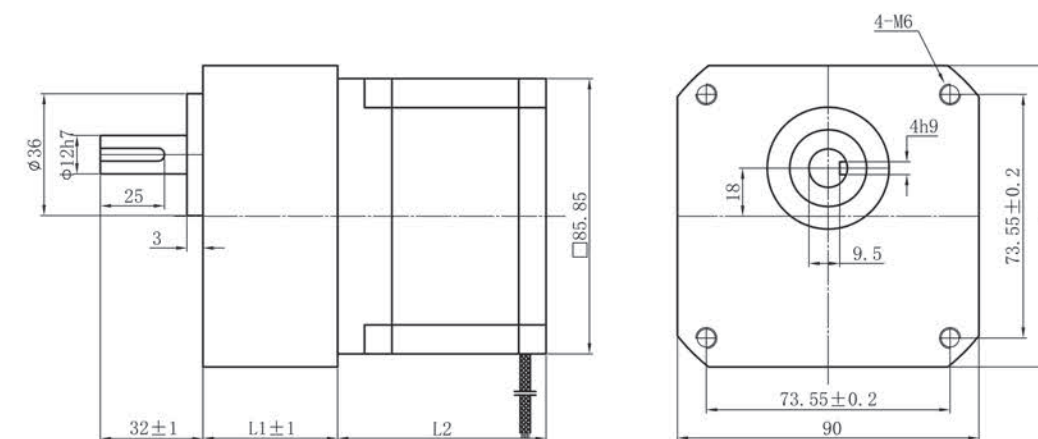
特性概要 (General specification)

Ratio 减速比	3	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120
Weight 重量	1.3kg										1.5kg									
Number of gear trains 减速级数	2					3					4									
Nominal torque 额定转矩											30N.m									
Ultimate torque 极限转矩											45N.m									
Efficiency 效率	81%					73%					66%									
Backlash 回差	4 deg					3.5deg					2.5deg									

齿轮箱电机性能 (Gear Motor Specifications)

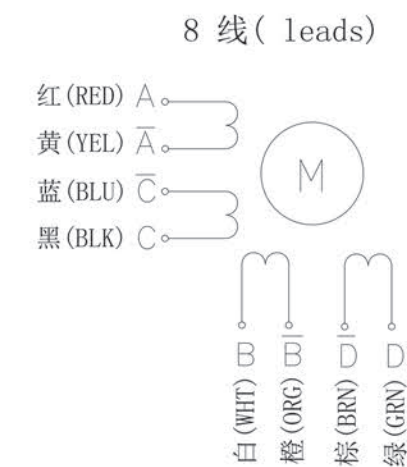
Ratio 减速比	3	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120
FL86STH65-90JB	Torque (N.m) 转矩 (N.m)	3.6	6	7.2	9.1	10.9	12.1	15.1	18.2	19.7	21.9	27.3	---	---	---	---	---	---	---	---
	speed(rpm) 转速 (rpm)	133	80	67	53	44	40	32	27	22	20	16	---	---	---	---	---	---	---	---
FL86STH80-90JB	Torque (N.m) 转矩 (N.m)	4.8	8.1	9.7	12.1	14.6	16.2	20.2	24.3	26.2	29.2	---	---	---	---	---	---	---	---	---
	speed(rpm) 转速 (rpm)	133	80	67	53	44	40	32	27	22	20	---	---	---	---	---	---	---	---	---
FL86STH118-90JB	Torque (N.m) 转矩 (N.m)	9.7	16.2	19.4	24.3	29.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	speed(rpm) 转速 (rpm)	133	80	67	53	44	---	---	---	---	---	---	---	---	---	---	---	---	---	---
FL86STH156-90JB	Torque (N.m) 转矩 (N.m)	12.1	20.2	24.3	30.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	speed(rpm) 转速 (rpm)	133	80	67	53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

机械尺寸 (Dimension)



RATIO	L2(mm)				L1(mm)
	FL86STH65-90JB	FL86STH80-90JB	FL86STH118-90JB	FL86STH156-90JB	
3---15	65	80	118	156	42
18---120					60

接线图 (Wiring Diagram)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

混合式步进行星齿轮减速电机(内齿圈材质: 金属) Planetary Gear Stepper Motor (Ring Gear Material: Metal)

FL20STH 22JMS20K

Φ22 行星减速器, 允许转矩范围: 0.6N.m~2.0N.m
22mm Planetary Gearbox
Permissible Load Range: 0.6N.m~2.0N.m

行星齿轮减速器 (Planetary Gearbox)

选件 Options

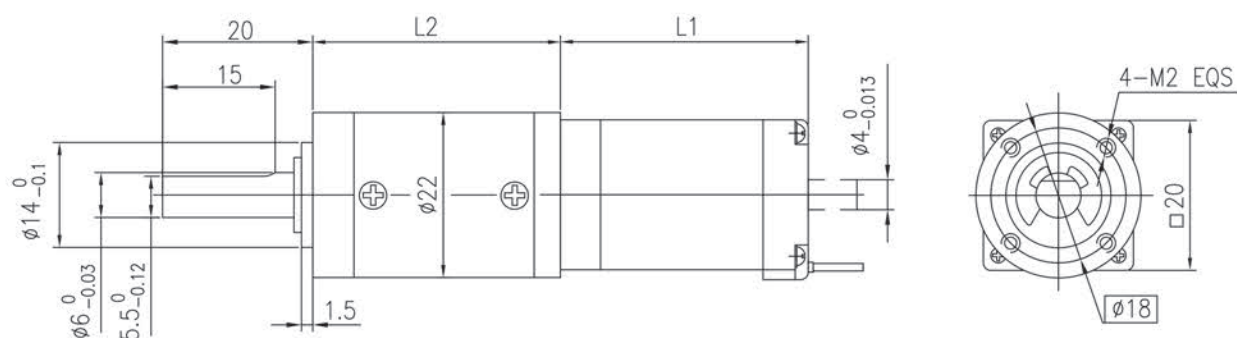


接插件



内齿圈材料 Ring material	金属 metal
输出轴轴承形式 Bearing at output	滚动轴承 Ball bearings
最大允许径向负载 (离法兰 10mm 处) Max. Radial load (10mm from flange)	50N
最大允许轴向负载 Max. shaft axial load	30N
径向间隙 (测量点尽量接近法兰) Radial play of shaft (near to flange)	≤0.08 mm
轴向间隙 Axial play of shaft	≤0.3 mm

外形和安装尺寸 (Dimensions)



FL20STH混合式步进电机性能 (FL20STH Hybrid Stepping Motor Specifications)

Model No.	额定电压	每相电流	每相电阻	每相电感	保持转矩	引出线数	转动惯量	重量	长度 L1	适配减速比
	Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Length L1	Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	g.cm		kg-m ²	g	mm	
FL20STH33-0604A	3.9	0.6	6.5	1.7	180	4	2.0x10 ⁻⁷	60	33	≤1:369
FL20STH42-0804A	4.32	0.8	5.4	1.5	300	4	3.6x10 ⁻⁷	80	42	≤1:264

行星减速器性能 (Planetary Gearbox Specifications)

减速比 Reduction ratio		3.71	5.18	14	19	27	51	71	100	139	189	264	369
精确减速比 Accurate Reduction Ratio		63/17	57/11	3969/289	3591/187	3249/121	250047/4913	228233/3179	204687/2057	185193/1331	538861/2857	1119000/4243	3661450/9929
减速级数 Number of gear trains		1		2			3			4			
减速器长度 (L2) Length(L2)	mm	23.4		30.0			36.4			42.8			
最大额定转矩 Max. rated torque	kg.cm	6		10			20			20			
瞬间允许转矩 Short time permissible torque	kg.cm	20		30			60			60			
效率 Efficiency	%	90%		81%			73%			66%			
背隙(无负载时) Backlash at no-load		0.6°		1.0°			1.5°			1.5°			
重量 Weight	g	31		37			43			49			

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

混合式步进行星齿轮减速电机(内齿圈材质: 金属) Planetary Gear Stepper Motor (Ring Gear Material: Metal)

FL28STH/28JMS40K

Φ28 行星减速器, 允许转矩范围: 1.2N.m~4.0N.m
28mm Planetary Gearbox
Permissible Load Range: 1.2N.m~4.0N.m

行星齿轮减速器 (Planetary Gearbox)

选件 Options

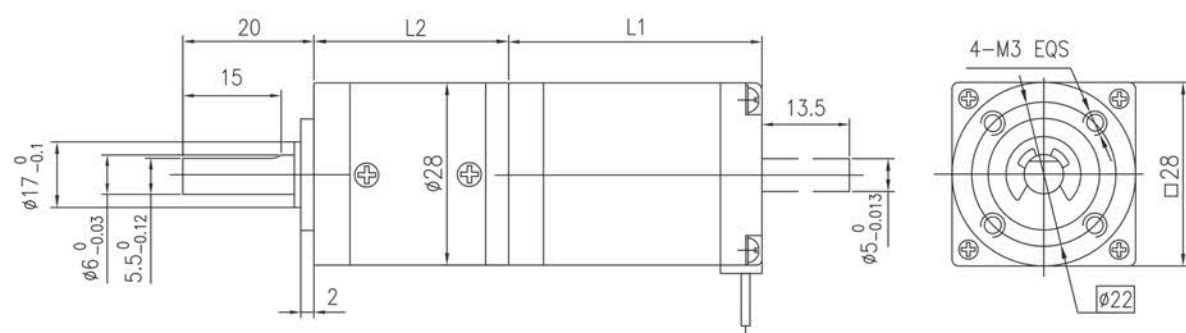


接插件



内齿圈材料 Ring material	金属 metal
输出轴轴承形式 Bearing at output	滚动轴承 Ball bearings
最大允许径向负载 (离法兰 10mm 处) Max. Radial load (10mm from flange)	100N
最大允许轴向负载 Max. shaft axial load	50N
径向间隙 (测量点尽量接近法兰) Radial play of shaft (near to flange)	≤0.07 mm
轴向间隙 Axial play of shaft	≤0.3 mm

外形和安装尺寸 (Dimensions)



FL28STH混合式步进电机性能 (FL28STH Hybrid Stepping Motor Specifications)

Model No.	额定电压	每相电流	每相电阻	每相电感	保持转矩	引出线数	转动惯量	重量	长度 L1	适配减速比
	Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Length L1	Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	g.cm		kg-m ²	g	mm	
FL28STH45-0956A	3.4	0.95	3.4	1.2	750	6	12x10 ⁻⁷	44.5	44.5	≤1:189
FL28STH51-0956A	4.4	0.95	4.6	1.8	900	6	18x10 ⁻⁷	50.5	50.5	≤1:189

行星减速器性能 (Planetary Gearbox Specifications)

减速比 Reduction ratio	3.71	5.18	14	19	27	51	72	100	139	189	264	369
精确减速比 Accurate Reduction Ratio	63/17	57/11	3969/289	3591/187	3249/121	250047/4913	228233/3179	204687/2057	185193/1331	538861/2857	1119000/4243	3661450/9929
减速级数 Number of gear trains	1		2		3			4				
减速器长度(L2) Length(L2)	mm	29.0	36.1		43.0			49.9				
最大额定转矩 Max. rated torque	kg.cm	12	20		40			40				
瞬间允许转矩 Short time permissible torque	kg.cm	40	60		120			120				
效率 Efficiency	%	90%	81%		73%			66%				
背隙(无负载时) Backlash at no-load		0.6°	1.0°		1.5°			1.5°				
重量 Weight	g	75	97		119			141				

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

混合式步进行星齿轮减速电机 (内齿圈材质: 金属和粉末金属) Planetary Gear Stepper Motor (Ring Gear Material: Metal and Powder Metal)

FL35ST/36JMS60K $\phi 36$ 行星减速器, 允许转矩范围: 1.8N.m~6.0N.m
FL35ST/36JMFS60K 36mm Planetary Gearbox
Permissible Load Range: 1.8N.m~6.0N.m

可在两种材料的内齿圈中进行选择: 金属 (型号36JMS60K), 粉末金属 (型号36JMFS60K)
Ring gear can be selected with the two materials: Metal (Type:36JMS60K), Powder metal (Type:36JMFS60K)

行星齿轮减速器 (Planetary Gearbox)

选件 Options

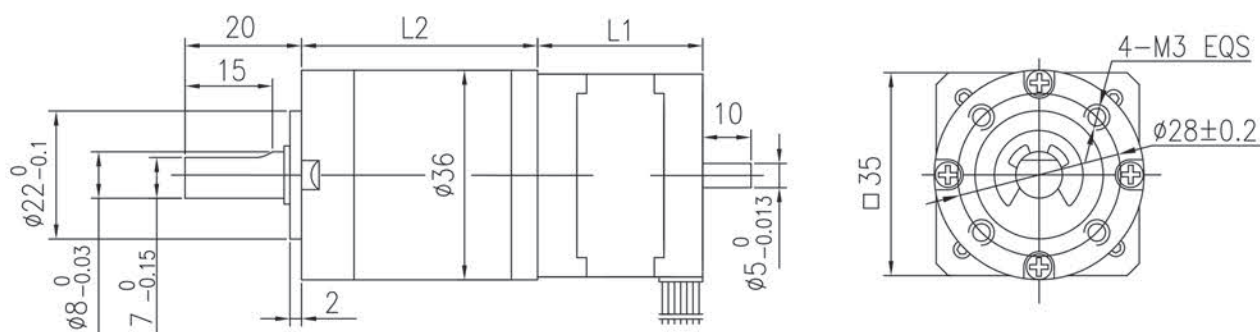


接插件



内齿圈材料 Ring material	金属 metal 金属粉末 Powder meta (F型)
输出轴承形式 Bearing at output	滚动轴承 Ball bearings
最大允许径向负载 (离法兰 10mm 处) Max. Radial load (10mm from flange)	100N
最大允许轴向负载 Max. shaft axial load	50N
径向间隙 (测量点尽量接近法兰) Radial play of shaft (near to flange)	≤ 0.07 mm
轴向间隙 Axial play of shaft	≤ 0.3 mm

外形和安装尺寸 (Dimensions)



FL35ST混合式步进电机性能 (FL35ST Hybrid Stepping Motor Specifications)

Model No.	额定电压	每相电流	每相电阻	每相电感	保持转矩	引出线数	转动惯量	重量	长度 L1	适配减速比
	Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Length L1	Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	g.cm		kg-m ²	g	mm	
FL35ST28-0504A	10	0.5	20	14	1000	4	11	140	28	1:264
FL35ST36-1004A	2.7	1.0	2.7	4.3	1400	4	14	180	36	1:189

行星减速器性能 (Planetary Gearbox Specifications)

减速比 Reduction ratio		3.71	5.18	14	19	27	51	72	100	139
精确减速比 Accurate Reduction Ratio		$63/17$	$57/11$	$3969/289$	$3591/187$	$3249/121$	$250047/4913$	$226233/3179$	$204687/2057$	$185193/1331$
减速级数 Number of gear trains		1			2			3		
减速器长度(L2) Length(L2)	mm	27.0			34.2			41.1		
最大额定转矩 Max. rated torque	kg.cm	20			30			60		
瞬间允许转矩 Short time permissible torque	kg.cm	60			90			180		
效率 Efficiency	%	90%			81%			73%		
背隙 (无负载时) Backlash at no-load		0.5°			1.0°			1.5°		
重量 Weight	g	134			173			212		

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

混合式步进行星齿轮减速电机 (内齿圈材质: 金属和粉末金属)

Planetary Gear Stepper Motor (Ring Gear Material: Metal and Powder Metal)

FL42STH/36JMS60K
FL42STH/36JMFS60K

Φ36 行星减速器, 允许转矩范围: 1.8N.m~6.0N.m
36mm Planetary Gearbox
Permissible Load Range: 1.8N.m~6.0N.m

可在两种材料的内齿圈中进行选择: 金属 (型号36JMS60K), 粉末金属 (型号36JMFS60K)
Ring gear can be selected with the two materials: Metal (Type:36JMS60K), Powder metal (Type:36JMFS60K)

行星齿轮减速器 (Planetary Gearbox)

选件 Options

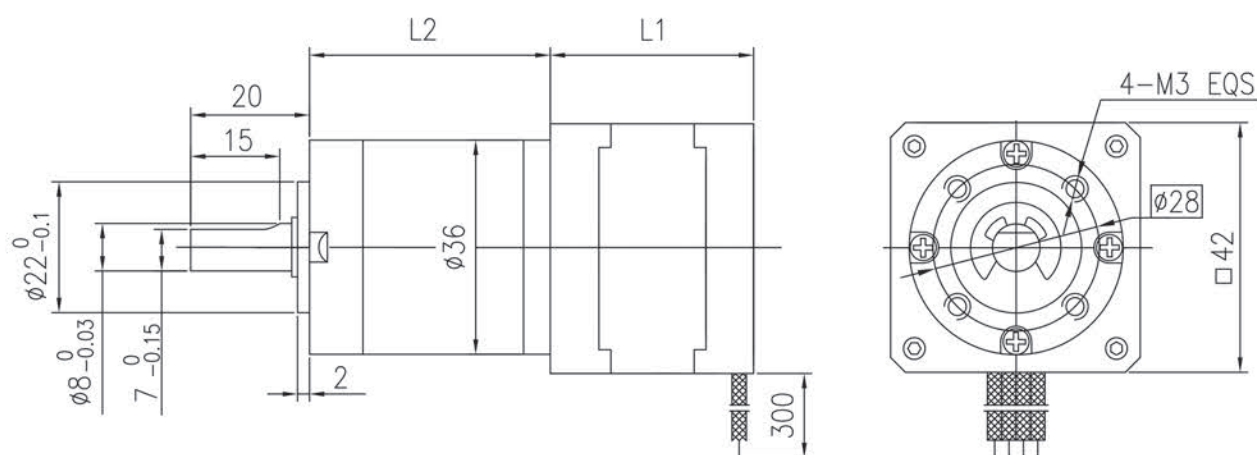


接插件 编码器



内齿圈材料 Ring material	金属 metal 金属粉末 Powder meta (F 型)
输出轴轴承形式 Bearing at output	滚动轴承 Ball bearings
最大允许径向负载 (离法兰 10mm 处) Max. Radial load (10mm from flange)	100N
最大允许轴向负载 Max. shaft axial load	50N
径向间隙 (测量点尽量接近法兰) Radial play of shaft (near to flange)	≤0.07 mm
轴向间隙 Axial play of shaft	≤0.3 mm

外形和安装尺寸 (Dimensions)



FL42STH混合式步进电机性能 (FL42ST Hybrid Stepping Motor Specifications)

Model No.	额定电压	每相电流	每相电阻	每相电感	保持转矩	引出线数	转动惯量	重量	长度 L1	适配减速比
	Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Length L1	Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	kg.cm		g-m ²	kg	mm	
FL42STH33-0316A	12	0.31	38.5	21	1.6	6	35	0.22	34	≤1:100
FL42STH33-1334A	2.8	1.33	2.1	2.5	2.2	4	35	0.22	34	≤1:71

行星减速器性能 (Planetary Gearbox Specifications)

减速比										
Reduction ratio		3.71	5.18	14	19	27	51	72	100	139
精确减速比										
Accurate Reduction Ratio		⁶³ / ₁₇	⁵⁷ / ₁₁	³⁹⁶⁹ / ₂₈₉	³⁵⁹¹ / ₁₈₇	³²⁴⁹ / ₁₂₁	²⁵⁰⁰⁴⁷ / ₄₉₁₃	²²⁶²³³ / ₃₁₇₉	²⁰⁴⁶⁸⁷ / ₂₀₅₇	¹⁸⁵¹⁹³ / ₁₃₃₁
减速级数 Number of gear trains		1			2			3		
减速器长度(L2)	mm	27.0			34.2			41.1		
最大额定转矩	kg.cm	20			30			60		
瞬间允许转矩	kg.cm	60			90			180		
效率 Efficiency	%	90%			81%			73%		
背隙 (无负载时)		0.5°			1.0°			1.5°		
重量 Weight	g	158			197			236		

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

混合式步进行星齿轮减速电机 (内齿圈材质: 金属) Planetary Gear Stepper Motor (Ring Gear Material: Metal)

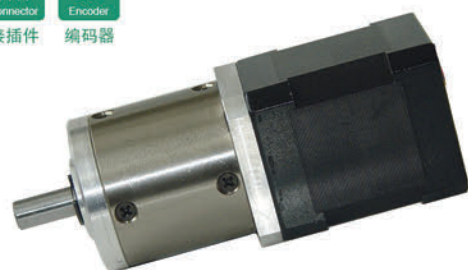
FL42STH/42JMGS100K Φ42 行星减速器, 允许转矩范围: 3N.m~10N.m
42mm Planetary Gearbox
Permissible Load Range: 3N.m~10N.m

行星齿轮减速器 (Planetary Gearbox)

选件 Options

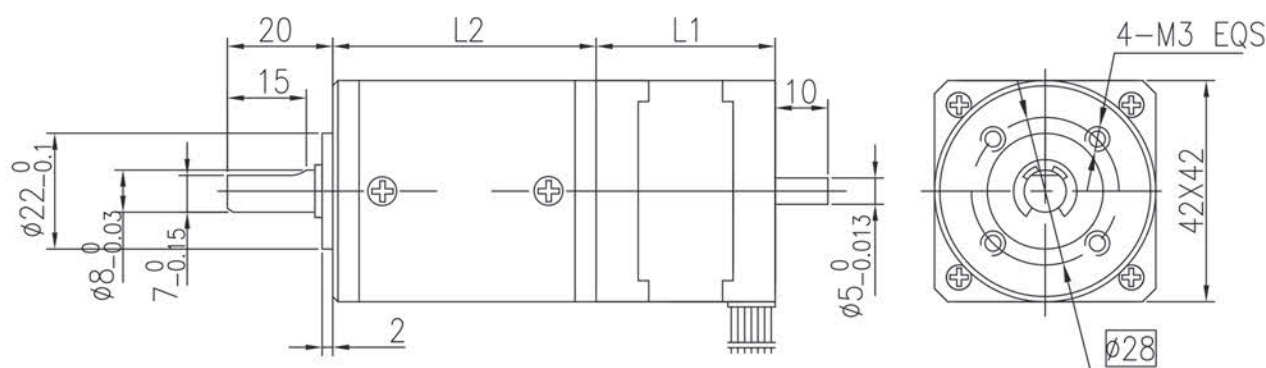


接插件 编码器



内齿圈材料 Ring material	金属 metal
输出轴承形式 Bearing at output	滚动轴承 Ball bearings
最大允许径向负载 (离法兰 10mm 处) Max. Radial load (10mm from flange)	100N
最大允许轴向负载 Max. shaft axial load	50N
径向间隙 (测量点尽量接近法兰) Radial play of shaft (near to flange)	≤0.07 mm
轴向间隙 Axial play of shaft	≤0.3 mm

外形和安装尺寸 (Dimensions)



FL42STH混合式步进电机性能 (FL42ST Hybrid Stepping Motor Specifications)

Model No.	额定电压	每相电流	每相电阻	每相电感	保持转矩	引出线数	转动惯量	重量	长度 L1	适配减速比
	Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Length L1	Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	kg.cm		g-m ²	kg	mm	
FL42STH33-1334A	2.8	1.33	2.1	2.5	2.2	4	35	0.22	34	≤1:118
FL42STH38-1684A	2.8	1.68	1.65	3.2	3.6	4	54	0.28	40	≤1:91

行星减速器性能 (Planetary Gearbox Specifications)

减速比 Reduction ratio		3.82	4.88	15	19	24	56	71	91	116	213	271	346
精确减速比 Accurate Reduction Ratio		42/11	39/8	1764/121	819/44	1521/64	74088/1331	17199/242	31941/352	59319/512	411889/1938	361179/1331	670761/1936
减速级数 Number of gear trains		1	2	3	4								
减速器长度(L2) Length(L2)	mm	36.9	47.4	57.7	68.0								
最大额定转矩 Max. rated torque	kg.cm	30	50	100	100								
瞬间允许转矩 Short time permissible torque	kg.cm	90	150	300	300								
效率 Efficiency	%	90%	81%	73%	66%								
背隙(无负载时) Backlash at no-load		0.5°	1.0°	1.5°	1.5°								
重量 Weight	g	229	300	371	442								

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

混合式步进行星齿轮减速电机 (内齿圈材质: 金属和粉末金属) Planetary Gear Stepper Motor (Ring Gear Material: Metal and Powder Metal)

FL42STH/42JMS100K $\Phi 42$ 行星减速器, 允许转矩范围: 3N.m~10N.m
FL42STH/42JMFS100K 42mm Planetary Gearbox
Permissible Load Range: 3N.m~10N.m

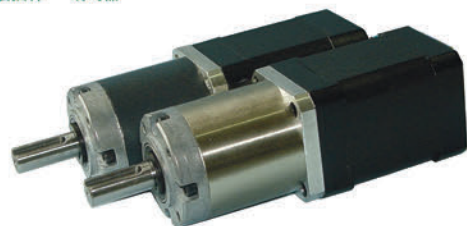
可在两种材料的内齿圈中进行选择: 金属 (型号42JMS100K), 粉末金属 (型号42JMFS100K)
Ring gear can be selected with the two materials: Metal (Type:42JMS100K), Powder metal (Type:42JMFS100K)

行星齿轮减速器 (Planetary Gearbox)

选件 Options

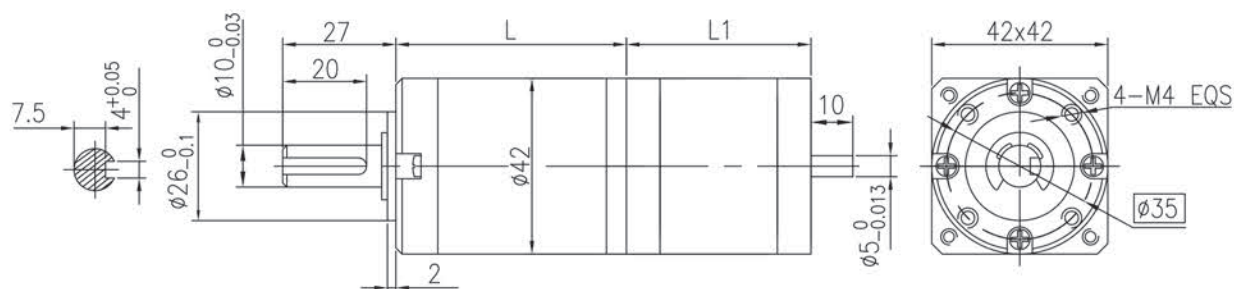


接插件 编码器



内齿圈材料 Ring material	金属 metal 金属粉末 Powder meta(F 型)
输出轴承形式 Bearing at output	滚动轴承 Ball bearings
最大允许径向负载 (离法兰 12mm 处) Max. Radial load (12mm from flange)	200N
最大允许轴向负载 Max. shaft axial load	100N
径向间隙 (测量点尽量接近法兰) Radial play of shaft (near to flange)	≤ 0.06 mm
轴向间隙 Axial play of shaft	≤ 0.3 mm

外形和安装尺寸 (Dimensions)



FL42STH混合式步进电机性能 (FL42ST Hybrid Stepping Motor Specifications)

Model No.	额定电压	每相电流	每相电阻	每相电感	保持转矩	引出线数	转动惯量	重量	长度 L1	适配减速比
	Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Length L1	Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	kg.cm		$g \cdot m^2$	kg	mm	
FL42STH33-1334A	2.8	1.33	2.1	2.5	2.2	4	35	0.22	34	$\leq 1:189$
FL42STH38-1684A	2.8	1.68	1.65	3.2	3.6	4	54	0.28	40	$\leq 1:71$

行星减速器性能 (Planetary Gearbox Specifications)

减速比 Reduction ratio	3.71	5.18	14	19	27	51	71	100	139	189	264	369
精确减速比 Accurate Reduction Ratio	$63/17$	$57/11$	$3969/289$	$3591/187$	$3249/121$	$250047/4913$	$226233/3179$	$204687/2057$	$185193/1331$	$538861/2857$	$1119000/4243$	$3661450/9929$
减速级数 Number of gear trains	1		2		3			4				
减速器长度(L2) Length(L2)	mm	31.5	42.1		52.5			62.9				
最大额定转矩 Max. rated torque	kg.cm	30	50		100			100				
瞬间允许转矩 Short time permissible torque	kg.cm	90	150		300			300				
效率 Efficiency	%	90%	81%		73%			66%				
背隙(无负载时) Backlash at no-load		0.6°	0.5°		1.0°			1.5°				
重量 Weight	g	208	290		372			454				

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

混合式步进行星齿轮减速电机 (内齿圈材质: 金属) Planetary Gear Stepper Motor (Ring Gear Material: Metal)

FL42STH/42JXGS200K

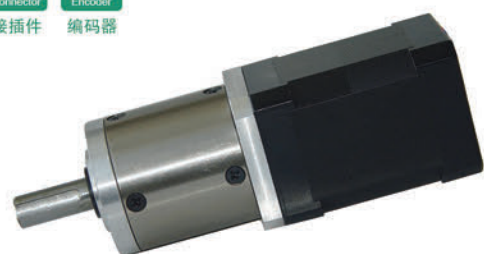
Φ42 行星减速器, 允许转矩范围: 6N.m~20N.m
42mm Planetary Gearbox
Permissible Load Range: 6N.m~20N.m

行星齿轮减速器 (Planetary Gearbox)

选件 Options

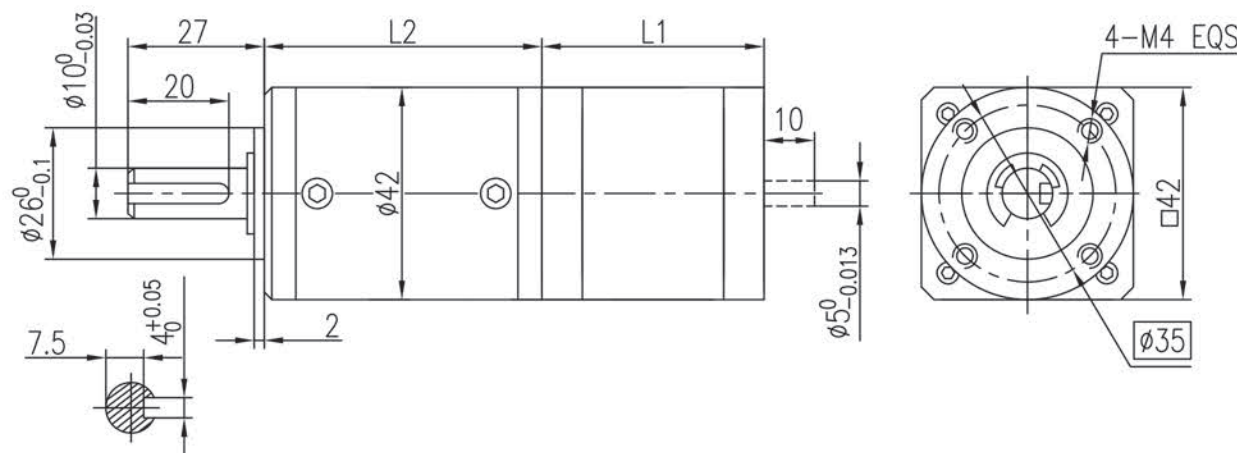


接插件 编码器



内齿圈材料 Ring material	金属 metal
输出轴轴承形式 Bearing at output	滚动轴承 Ball bearings
最大允许径向负载 (离法兰 12mm 处) Max. Radial load (12mm from flange)	200N
最大允许轴向负载 Max. shaft axial load	100N
径向间隙 (测量点尽量接近法兰) Radial play of shaft (near to flange)	≤0.06 mm
轴向间隙 Axial play of shaft	≤0.3 mm

外形和安装尺寸 (Dimensions)



FL42STH混合式步进电机性能 (FL42ST Hybrid Stepping Motor Specifications)

Model No.	额定电压	每相电流	每相电阻	每相电感	保持转矩	引出线数	转动惯量	重量	长度 L1	适配 减速比
	Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Length L1	Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	kg.cm		g-m ²	kg	mm	
FL42STH38-1684A	2.8	1.68	1.65	3.2	3.6	4	54	0.28	40	≤1:247
FL42STH47-1684A	2.8	1.68	1.65	2.8	4.4	4	68	0.35	48	≤1:106

行星减速器性能 (Planetary Gearbox Specifications)

减速比 Reduction ratio		4.44	17	22	65	83	106	247	316	403	515
精确减速比 Accurate Reduction Ratio		40/9	560/33	43329/2000	7840/121	82719/1000	845/8	748328/3025	38220/121	17745/44	32955/64
减速级数 Number of gear trains		1	2		3			4			
减速器长度(L2) Length(L2)	mm	39.2	49.7		60.0			70.3			
最大额定转矩 Max. rated torque	kg.cm	60	100		200			200			
瞬间允许转矩 Short time permissible torque	kg.cm	180	300		600			600			
效率 Efficiency	%	90%	81%		73%			66%			
背隙(无负载时) Backlash at no-load		0.5°	1.0°		1.5°			1.5°			
重量 Weight	g	261	340		419			498			

该款电机可以根据客户需求定制。

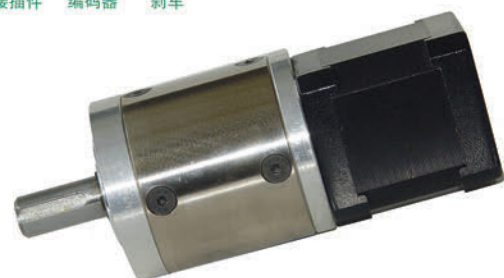
The motor can be designed & manufactured with customized request.

混合式步进行星齿轮减速电机 (内齿圈材质: 金属) Planetary Gear Stepper Motor (Ring Gear Material: Metal)

FL42STH/52JMS300K $\phi 52$ 行星减速器, 允许转矩范围: 9N.m~30N.m
52mm Planetary Gearbox
Permissible Load Range: 9N.m~30N.m

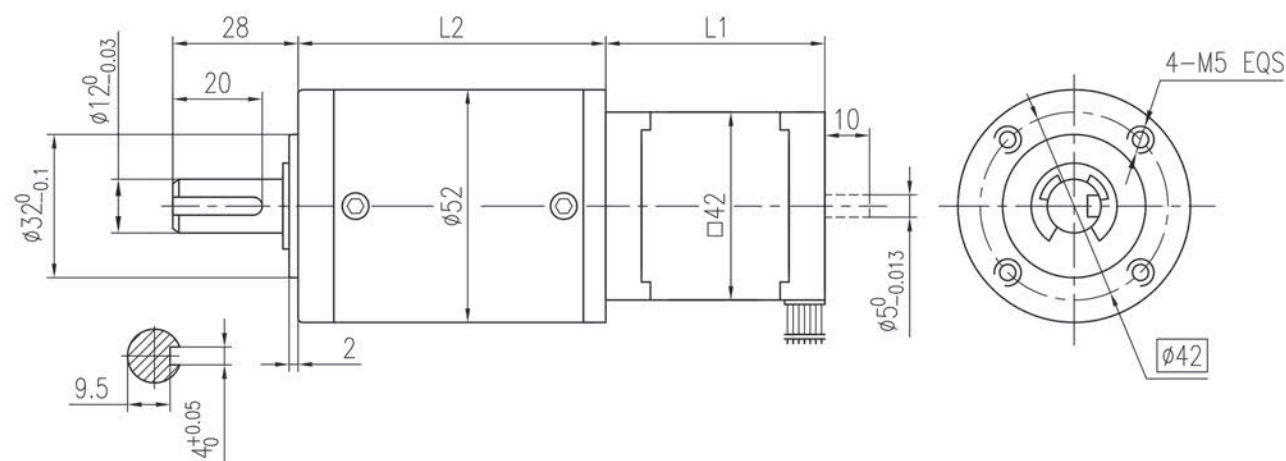
行星齿轮减速器 (Planetary Gearbox)

选件 Options



内齿圈材料 Ring material	金属 metal
输出轴轴承形式 Bearing at output	滚动轴承 Ball bearings
最大允许径向负载 (离法兰 12mm 处) Max. Radial load (12mm from flange)	300N
最大允许轴向负载 Max. shaft axial load	200N
径向间隙 (测量点尽量接近法兰) Radial play of shaft (near to flange)	≤ 0.08 mm
轴向间隙 Axial play of shaft	≤ 0.3 mm

外形和安装尺寸 (Dimensions)



FL42STH混合式步进电机性能 (FL42ST Hybrid Stepping Motor Specifications)

Model No.	额定电压	每相电流	每相电阻	每相电感	保持转矩	引出线数	转动惯量	重量	长度 L1	适配减速比
	Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Length L1	Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	kg.cm		$g \cdot m^2$	kg	mm	
FL42STH47-1684A	2.8	1.68	1.65	2.8	4.4	4	102	0.50	60	$\leq 1:187$
FL42STH60-1206A	7.2	1.2	6	7	5.6	6	102	0.50	60	$\leq 1:187$

行星减速器性能 (Planetary Gearbox Specifications)

减速比 Reduction ratio	3.60	4.25	13	15	18	23	47	55	65	77	96	121	154	187
精确减速比 Accurate Reduction Ratio	$18/5$	$17/4$	$324/25$	$153/10$	$289/16$	$68/3$	$5932/125$	$1337/25$	$2601/40$	$4913/64$	$289/3$	$1088/8$	$30277/197$	$23328/125$
减速级数 Number of gear trains	1		2			2				4				
减速器长度(L2) Length(L2)	mm		45.7			57.2			68.5			79.8		
最大额定转矩 Max. rated torque	kg.cm		90			150			300			300		
瞬间允许转矩 Short time permissible torque	kg.cm		270			450			900			900		
效率 Efficiency	%		90%			81%			73%			66%		
背隙 (无负载时) Backlash at no-load			0.5°			1.0°			1.5°			1.5°		
重量 Weight	g		428			554			680			810		

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

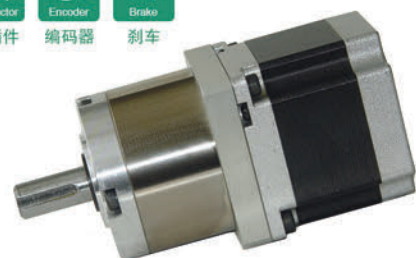
混合式步进行星齿轮减速电机 (内齿圈材质: 金属) Planetary Gear Stepper Motor (Ring Gear Material: Metal)

FL57STH/ 56JMS300K

Φ56 行星减速器, 允许转矩范围: 9N.m~30N.m
56mm Planetary Gearbox
Permissible Load Range: 9N.m~30N.m

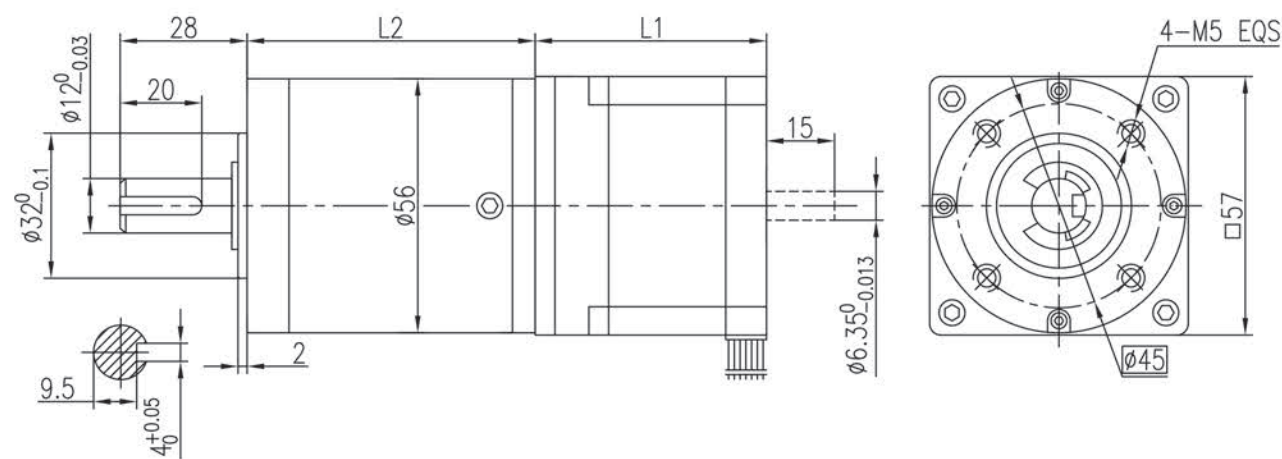
行星齿轮减速器 (Planetary Gearbox)

选件 Options



内齿圈材料 Ring material	金属 metal
输出轴承形式 Bearing at output	滚动轴承 Ball bearings
最大允许径向负载 (离法兰 12mm 处) Max. Radial load (12mm from flange)	300N
最大允许轴向负载 Max. shaft axial load	200N
径向间隙 (测量点尽量接近法兰) Radial play of shaft (near to flange)	≤0.08 mm
轴向间隙 Axial play of shaft	≤0.4 mm

外形和安装尺寸 (Dimensions)



57STH混合式步进电机性能 (57STH Hybrid Stepping Motor Specifications)

Model No.	额定电压	每相电流	每相电阻	每相电感	保持转矩	引出线数	转动惯量	重量	长度 L1	适配减速比
	Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Length L1	Max. Gear Ratio
单轴 Single Shaft	V	A	Ω	mH	kg.cm		g-m ²	kg	mm	
FL57STH51-2804A	2.3	2.8	0.83	2.2	10.1	4	275	0.65	51	≤1:77
FL57STH56-2804A	2.5	2.8	0.9	2.5	12.6	4	300	0.70	56	≤1:77

行星减速器性能 (Planetary Gearbox Specifications)

减速比 Reduction ratio	3.60	4.25	13	15	18	23	47	55	65	77	96	121	154	187
精确减速比 Accurate Reduction Ratio	18/5	17/4	324/25	153/10	289/16	68/3	5932/125	1337/25	2601/40	4913/64	289/3	1088/8	30277/197	23328/125
减速级数 Number of gear trains	1		2			2			4					
减速器长度(L2) Length(L2)	mm		37.8			49.4			60.8			71.9		
最大额定转矩 Max. rated torque	kg.cm		90			150			300			300		
瞬间允许转矩 Short time permissible torque	kg.cm		270			450			900			900		
效率 Efficiency	%		90%			81%			73%			66%		
背隙 (无负载时) Backlash at no-load			0.5°			0.5°			1.0°			1.5°		
重量 Weight	g		455			610			765			920		

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

混合式步进行星齿轮减速电机 (内齿圈材质: 金属) Planetary Gear Stepper Motor (Ring Gear Material: Metal)

FL60STH/60JMS300K

Φ60 行星减速器, 允许转矩范围: 9N.m~30N.m
60mm Planetary Gearbox
Permissible Load Range: 9N.m~30N.m

行星齿轮减速器 (Planetary Gearbox)

选件 Options

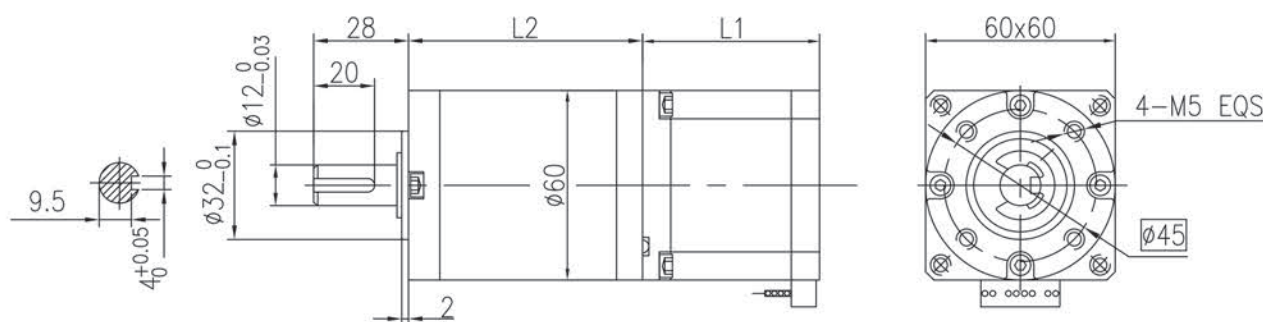


接插件 编码器 刹车



内齿圈材料 Ring material	金属 metal
输出轴轴承形式 Bearing at output	滚动轴承 Ball bearings
最大允许径向负载 (离法兰 12mm 处) Max. Radial load (12mm from flange)	300N
最大允许轴向负载 Max. shaft axial load	200N
径向间隙 (测量点尽量接近法兰) Radial play of shaft (near to flange)	≤0.08 mm
轴向间隙 Axial play of shaft	≤0.4 mm

外形和安装尺寸 (Dimensions)



FL60STH混合式步进电机性能 (FL60STH Hybrid Stepping Motor Specifications)

Model No.		额定电压	每相电流	每相电阻	每相电感	保持转矩	引出线数	转动惯量	重量	长度 L1	适配减速比
		Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Length L1	Max. Gear Ratio
单轴 Single Shaft		V	A	Ω	mH	kg.cm		g-m ²	kg	mm	
FL60STH45-2008AF	并联	2.1	2.8	0.75	2	11	8	275	0.6	47	≤1:115
FL60STH56-2008AF	并联	2.52	2.8	0.9	3.6	16.5	8	300	0.77	56	≤1:77

行星减速器性能 (Planetary Gearbox Specifications)

减速比 Reduction ratio		3.60	4.25	13	15	18	23	47	55	65	77	96	121
精确减速比 Accurate Reduction Ratio		18/5	17/4	324/25	153/10	289/16	68/3	5932/125	1337/25	2601/40	4913/64	289/3	1088/8
减速级数 Number of gear trains		1			2			3					
减速器长度(L2) Length(L2)	mm	37.8			49.4			60.8					
最大额定转矩 Max. rated torque	kg.cm	90			150			300					
瞬间允许转矩 Short time permissible torque	kg.cm	270			450			900					
效率 Efficiency	%	90%			81%			73%					
背隙 (无负载时) Backlash at no-load		0.5°			1.0°			1.5°					
重量 Weight	g	500			688			876					

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

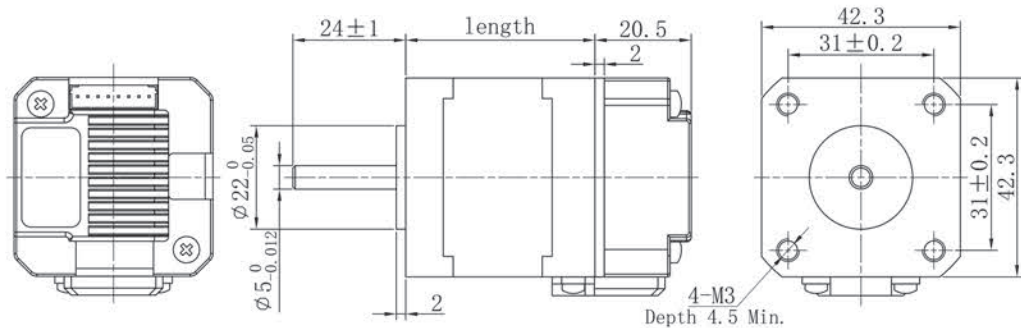


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步, 空载)(full step, no load)
径向间隙 (Shaft Radial Play)	0.02mm@450 g-load
轴向间隙 (Shaft Axial Play)	0.08mm@450 g-load
最大径向负载 (Max. radial force)	28N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	10N
介电强度 (Dielectric Strength)	600VAC /1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20° C~+50° C
绝缘等级 (Insulation Class)	Class B

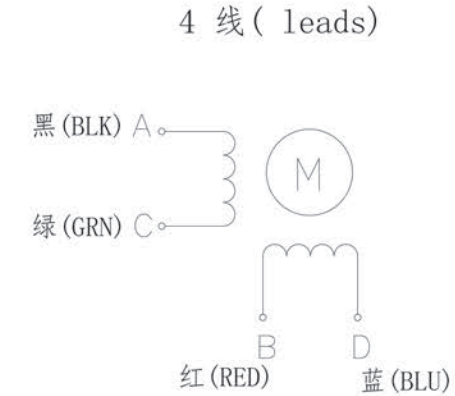
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
单出轴 (Single SHAFT)	A	Ω	mH	N.m	N.m	#	g-cm ²	kg	mm
FL42STH33-1334A-IE2	1.33	2.1	2.5	0.22	0.012	4	35	0.22	33.5±1
FL42STH38-1684A-IE4	1.68	1.65	3.2	0.36	0.015	4	54	0.28	39.5±1
FL42STH47-1684A-IE4	1.68	1.65	2.8	0.44	0.02	4	68	0.35	47.5±1

机械尺寸 (Dimension)



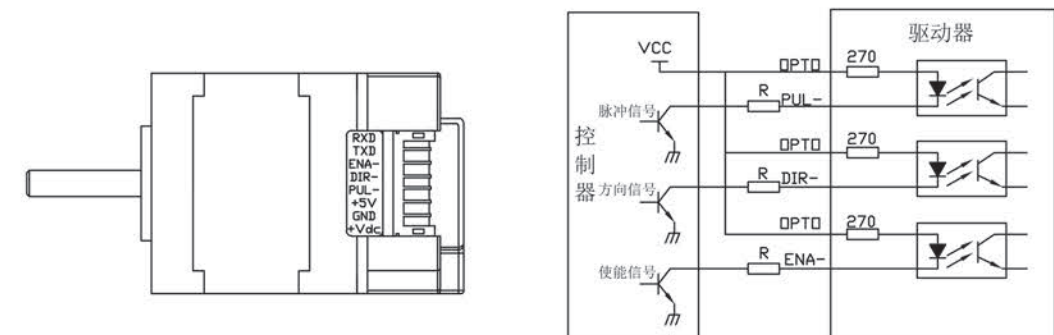
接线图 (Wiring Diagram)



驱动器电气指标 (Drive electrical indicator)

说明 (Specifications)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Unit)
输入电压 (直流) / Input voltage (DC)	12	24	32	Vdc
输出电流 (峰值) / Output current (peak)	0.5	-	2.2	A
步进脉冲频率 / Step pulse frequency	0	-	200	KHz
脉冲电压 / Pulse voltage	-	5	5	Vdc
控制信号输入电流 / Control signal input current	7	10	16	mA
绝缘电阻 / Insulation resistance	100	-	-	MΩ

系统连接框图 (System connection diagram)



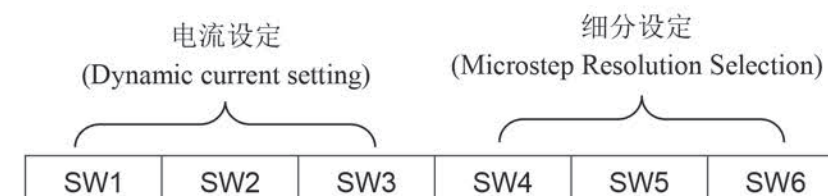
该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

控制信号输入端接口 (Control signal input interface)

引脚说明 (Pin description)	功能 (Function)
+Vdc	电源电压：12~32 Vdc，包括电压波动和 EMF 电压。 Power supply: 12~32 Vdc, Including voltage fluctuation and EMF voltage.
GND	接地 (Power Ground)
OPTO+ (+5V)	脉冲控制信号：脉冲上升沿有效；PUL-高电平时 4~5V，低电平时 0~0.5V。为了可靠响应脉冲信号，脉冲宽度应大于 2.5 如采用+12V 或+24V 时需串电阻。
PUL-	Pulse control signal: pulse rising edge is valid; PUL-high level is 4~5V, low level is 0~0.5V. In order to respond reliably to pulse signals, the pulse width should be greater than 2.5. If +12V or +24V is used, string resistance is required.
OPTO+ (+5V)	方向信号：高/低电平信号，为保证电机可靠换向，方向信号应先于脉冲信号至少 5μs 建立。电机的初始运行方向与电机的接线有关，互换任一相绕组（如 A+、A- 交换）可以改变电机初始运行的方向，DIR-高电平时 4~5V，低电平时 0~0.5V。
DIR-	Direction signal: High/low level signal. To ensure reliable commutation of the motor, the direction signal should be established before the pulse signal is at least 5μs. The initial running direction of the motor is related to the wiring of the motor. Interchanging any phase winding (such as A+, A-exchange) can change the direction of the initial running of the motor, DIR-high level 4~5V, low level 0~0.5V.
OPTO+ (+5V)	使能信号：此输入信号用于使能或禁止。ENA+ 接+5V，ENA-接低电平（或内部光耦导通）时，驱动器将切断电机各相的电流使电机处于自由状态，此时步进脉冲不被响应。当不需用此功能时，使能信号端悬空即可。
ENA- (ENA)	Enable signal: This input signal is used to enable or disable. When ENA+ is connected to +5V and ENA- is connected to low level (or internal optocoupler is on), the driver will cut off the current of each phase of the motor to make the motor free, and the step pulse will not be responded. When this function is not needed, the enable signal is left floating.
TXD	RS232 transmit
RXD	RS232 receive

开关设定 (Switch setting)



动态电流设定 (Dynamic current setting)

输出峰值电流 Peak Current	输出有效值电流 RMS Current	SW1	SW2	SW3
Default 0.5A 【PK】		ON	ON	ON
0.7A	0.5A	OFF	ON	ON
1.0A	0.7A	ON	OFF	ON
1.2A	0.85A	OFF	OFF	ON
1.5A	1.0A	ON	ON	OFF
1.8A	1.28A	OFF	ON	OFF
2.0A	1.42A	ON	OFF	OFF
2.2A	1.58A	OFF	OFF	OFF

细分设定 (Microstep Resolution Selection)

步数/转 Steps/rev.	SW4	SW5	SW6
Default (400)	ON	ON	ON
800	OFF	ON	ON
1600	ON	OFF	ON
3200	OFF	OFF	ON
4000	ON	ON	OFF
5000	OFF	ON	OFF
6400	ON	OFF	OFF
12800	OFF	OFF	OFF

该款电机可以根据客户需求定制。

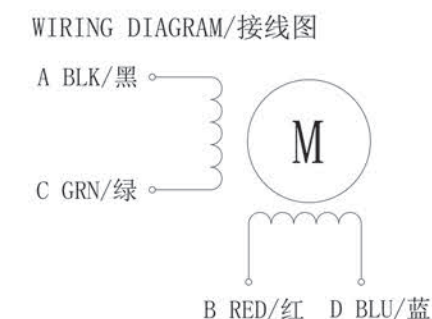
The motor can be designed & manufactured with customized request.

特性概要 (General specification)



项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步, 空载)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	75N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	15N
介电强度 (Dielectric Strength)	600VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20° C~+50° C
绝缘等级 (Insulation Class)	Class B

接线图 (Wiring Diagram)



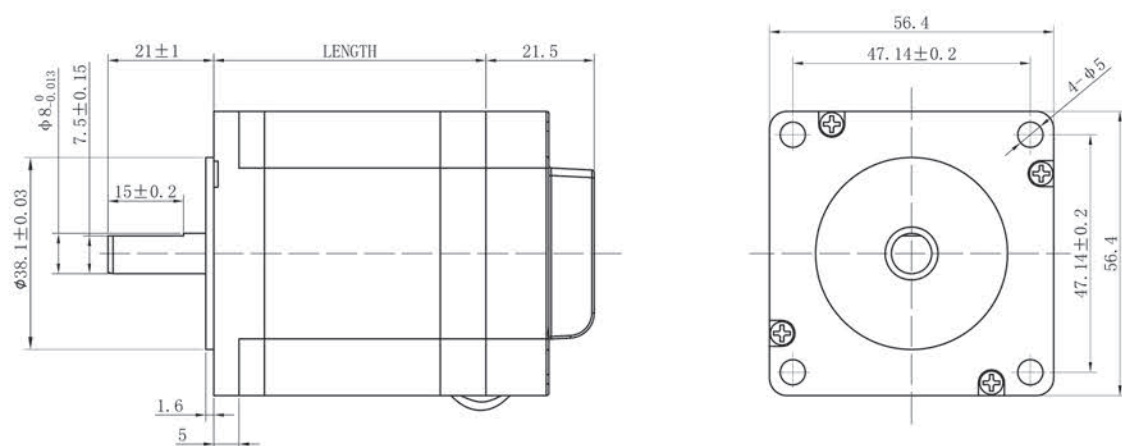
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase /每相电流	Resistance /Phase /每相电阻	Inductance /Phase /每相电感	Holding Torque /保持转矩	Detent Torque /定位转矩	# of Leads /引出线数	Rotor Inertia /转动惯量	Weight /重量	Length /机身长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g-cm ²	kg	mm
IO57-10	2.8	0.9	2.5	1.26	0.04	4	300	0.9	54±1
IO57-22	5.6	0.4	1.8	2.2	0.07	4	500	1.5	80±1

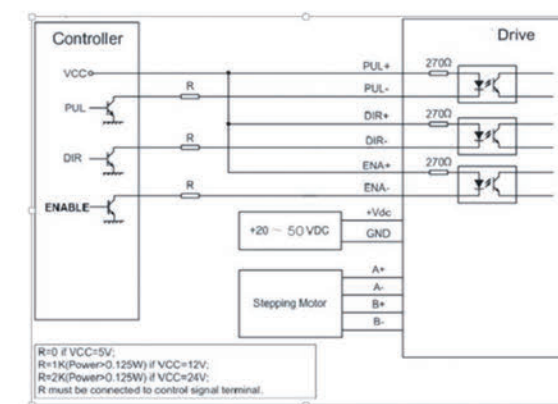
驱动器电气指标 (Drive electrical indicator)

说明 (Specifications)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Unit)
输入电压 (直流) / Input voltage (DC)	20	36	50	Vdc
输出电流 (峰值) / Output current (peak)	1.5	-	5.6	A
步进脉冲频率 / Step pulse frequency	0	-	200	KHz
脉冲电压 / Pulse voltage	-	5	-	Vdc
控制信号输入电流 / Control signal input current	7	10	16	mA
绝缘电阻 / Insulation resistance	100	-	-	MΩ

机械尺寸 (Dimension)



系统连接框图 (System connection diagram)



该款电机可以根据客户需求定制。
The motor can be designed & manufactured with customized request.

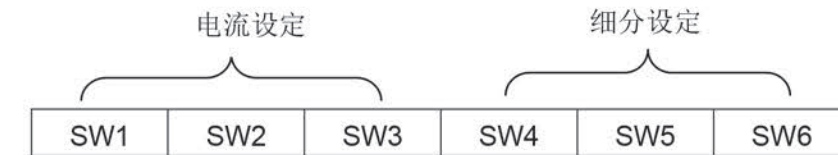
■ 控制信号输入端接口 (Control signal input interface)

引脚说明 (Pin description)	功能 (Function)
+Vdc	电源电压：0~50 Vdc，包括电压波动和 EMF 电压。 Power supply, 20~50 Vdc, including voltage fluctuation and EMF voltage.
GND	接地(Power Ground)
PUL+ (+5V)	脉冲控制信号：脉冲上升沿有效；PUL-高电平时 4~5V，低电平时 0~0.5V。为了可靠响应脉冲信号，脉冲宽度应大于 2.5 如采用+12V 或+24V 时需串电阻。 Pulse control signal: pulse rising edge is valid; PUL-high level is 4~5V, low level is 0~0.5V. In order to respond reliably to pulse signals, the pulse width should be greater than 2.5. If +12V or +24V is used, string resistance is required.
PUL- (PUL)	
DIR+ (+5V)	方向信号：高/低电平信号，为保证电机可靠换向，方向信号应先于脉冲信号至少 5μs 建立。电机的初始运行方向与电机的接线有关，互换任一相绕组（如 A+、A-交换）可以改变电机初始运行的方向，DIR-高电平时 4~5V，低电平时 0~0.5V。 Direction signal: High/low level signal. To ensure reliable commutation of the motor, the direction signal should be established before the pulse signal is at least 5μs. The initial running direction of the motor is related to the wiring of the motor. Interchanging any phase winding (such as A+, A-exchange) can change the direction of the initial running of the motor, DIR-high level 4~5V, low level 0~0.5V.
DIR- (DIR)	
ENA+ (+5V)	使能信号：此输入信号用于使能或禁止。ENA+ 接+5V，ENA-接低电平（或内部光耦导通）时，驱动器将切断电机各相的电流使电机处于自由状态，此时步进脉冲不被响应。当不需用此功能时，使能信号端悬空即可。 Enable signal: This input signal is used to enable or disable. When ENA+ is connected to +5V and ENA- is connected to low level (or internal optocoupler is on), the driver will cut off the current of each phase of the motor to make the motor free, and the step pulse will not be responded. When this function is not needed, the enable signal is left floating.
ENA- (ENA)	

■ 电机引线接口引脚说明 (Motor lead interface pin description)

引脚(Pin)	功能说明(Function description)
A+	两相步进电机 A+相(Motor Phase A+)
A-	两相步进电机 A-相(Motor Phase A-)
B+	两相步进电机 B+相(Motor Phase B+)
B-	两相步进电机 B-相(Motor Phase B-)

■ 开关设定 (Switch setting)



动态电流设定 (Dynamic current setting)

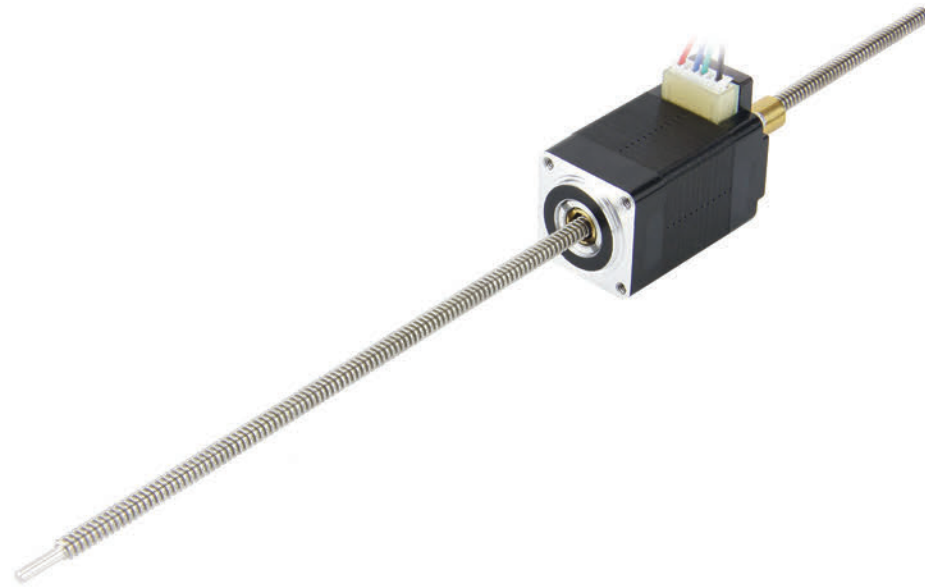
输出峰值电流 Peak Current	输出有效值电流 RMS Current	SW1	SW2	SW3
Default 1.5A 【PK】		ON	ON	ON
2.1A	1.5A	OFF	ON	ON
2.7A	1.9A	ON	OFF	ON
3.2A	2.3A	OFF	OFF	ON
3.8A	2.7A	ON	ON	OFF
4.3A	3.1A	OFF	ON	OFF
4.9A	3.5A	ON	OFF	OFF
5.6A	4.0A	OFF	OFF	OFF

细分设定 (Microstep Resolution Selection)

步数/转 (1.8°电机) Steps/rev. (for 1.8°motor)	SW4	SW5	SW6
Default (400)	ON	ON	ON
800	OFF	ON	ON
1600	ON	OFF	ON
3200	OFF	OFF	ON
4000	ON	ON	OFF
5000	OFF	ON	OFF
6400	ON	OFF	OFF
12800	OFF	OFF	OFF

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.



选件 Options



型号 (VERSIONS)

型号(Type)	推力 Force N	速度 Speed mm/s	相电流 Current Per Winding A	分辨率 Resolution μm/步(step)	相电阻 Resistance per Winding Ohm	相电感 Inductance per Winding mH	丝杆直径 Thread Diameter mm	导程 Thread Lead mm	机身长度 Length "A" mm	衬套长度 Socket Length "L" mm	重量 Weight kg
LA201S06-A-TDBA	46	40	0.6	5	6.4	2.6	3.5	1	33	8	0.054
LA201S06-B-TDBA	46	40	0.6	5	6.4	2.6	3.5	1	33	8	0.054

配件 (ACCESSORIES)

- ZST3,5-1-200-1 带梯形螺纹的丝杆 (Lead Screw with Trapezoidal Thread)
- ZST3,5-1-500 带梯形螺纹的丝杆 (Lead Screw with Trapezoidal Thread)
- NANOLUBE-50G 润滑剂 (Lubricant)

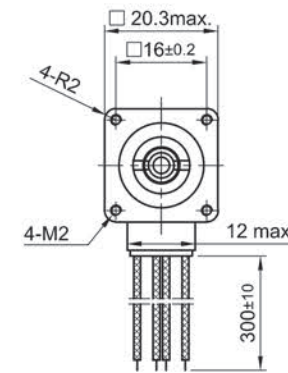
警告 (CAUTION)

数据表中指定的力和额定功率基10%至 20% 的占空比，必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。
The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

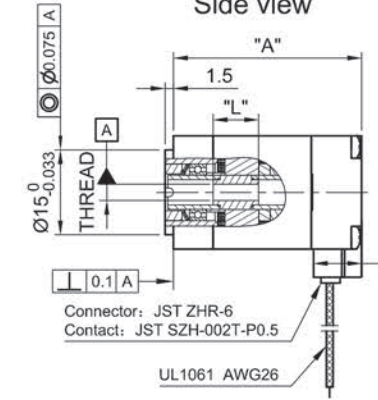
机械尺寸 (VERSIONS)

LA20-A

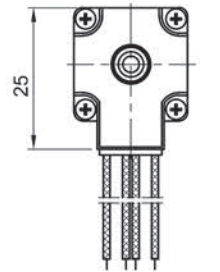
Front view and mounting



Side view

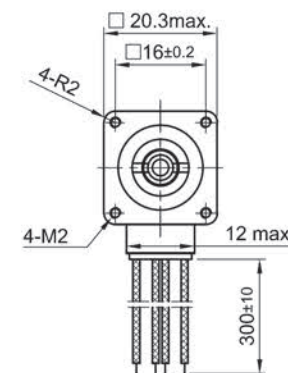


Rear view

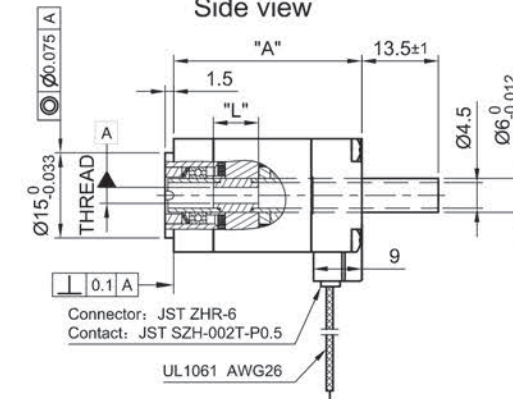


LA20-B

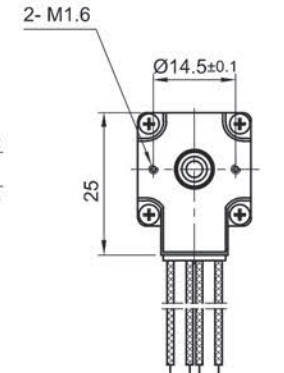
Front view and mounting



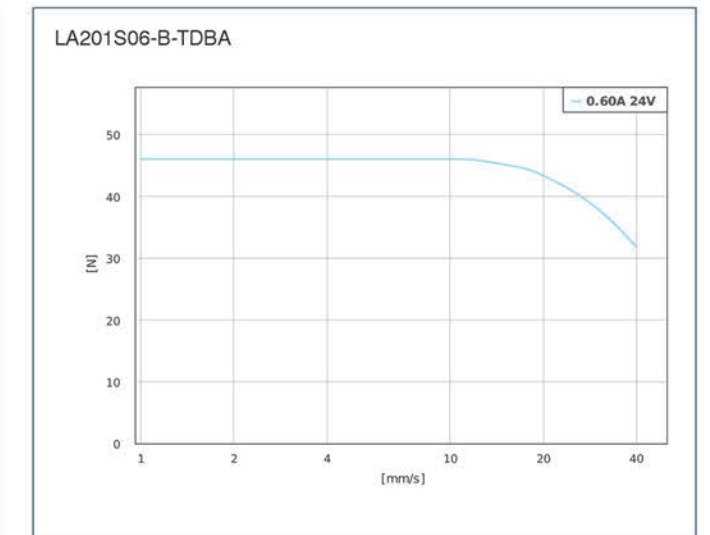
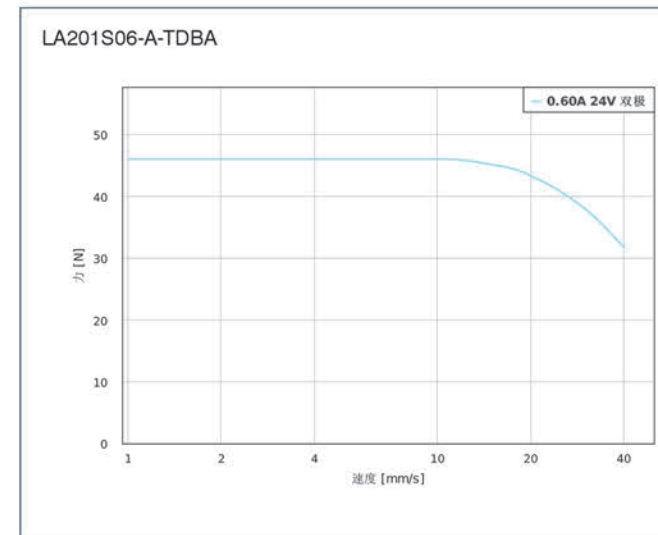
Side view



Rear view



速度推力曲线 (FORCE-VELOCITY CURVES)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

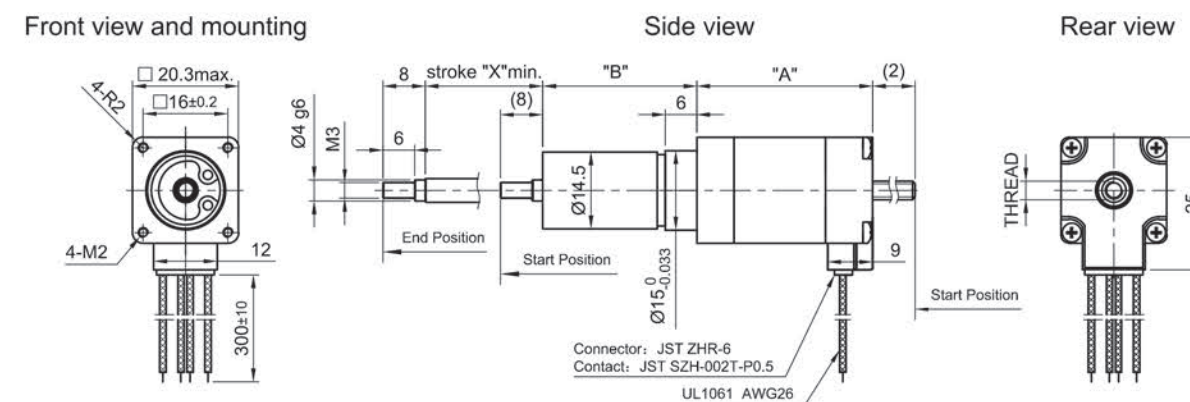


选件 Options



机械尺寸 (VERSIONS)

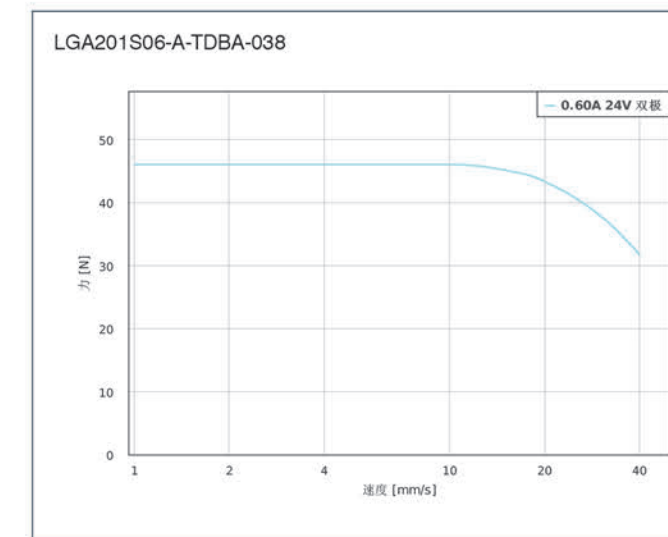
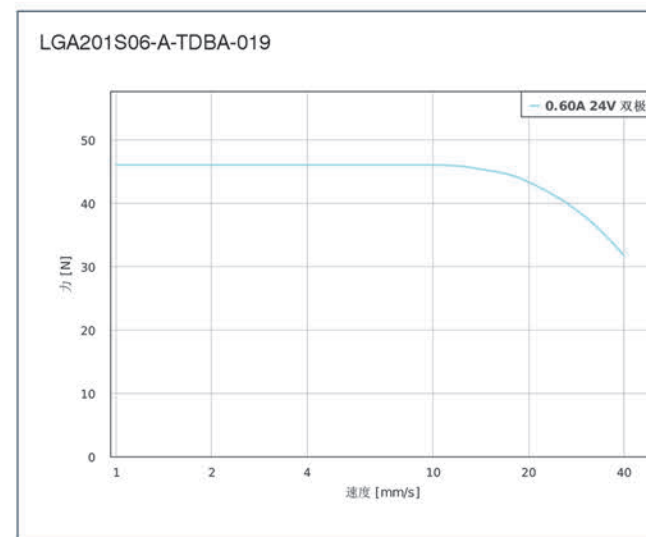
LGA20-A



速度推力曲线 (FORCE-VELOCITY CURVES)

型号 (VERSIONS)

型号(Type)	推力 Force	速度 Speed mm/s	相电流 Current per Winding A	分辨率 Resolution µm/步(step)	相电阻 Resistance per Winding Ohm	相电感 Inductance per Winding m H	丝杆直径 Thread Diameter mm	导程 Thread Lead mm	机身长度 Length "A" mm	行程长度 Stroke Length "X" mm	重量 Weight kg
LGA201S06-A-TDBA-019	46	40	0.6	5	6.4	2.6	3.5	1	33	19.05	0.054
LGA201S06-A-TDBA-038	46	40	0.6	5	6.4	2.6	3.5	1	33	38.1	0.15



配件 (ACCESSORIES)

NANOLUBE-50G润滑剂 (Lubricant)

警告 (CAUTION)

数据表中指定的力和额定功率基于 10%至 20% 的占空比，必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。

The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.



选件 Options



型号 (VERSIONS)

型号(Type)	推力 Force	速度 Speed mm/s	相电流 Current per Winding A	分辨率 Resolution $\mu\text{m}/\text{步}(\text{step})$	相电阻 Resistance per winding Ohm	相电感 Inductance per winding Mh	丝杆直径 Thread Diameter mm	导程 Thread Lead mm	丝杆长度 Screw Length "L" mm	机身长度 Length "A" mm	重量 Weight kg
LSA201S06-A-TDBA-102	46	40	0.6	5	6.4	2.6	3.5	1	102	33	0.054
LSA201S06-B-TDBA-102	46	40	0.6	5	6.4	2.6	3.5	1	102	33	0.054

配件 (ACCESSORIES)

LSNUT-AAAA-TDBA 螺纹螺母(Threaded Nut) – POM
 LSNUT-ZERO3,5X1
 预装螺纹螺母(Loaded Threaded Nut) -PEEK
 NANOLUBE-50G 润滑剂(Lubricant)

警告 (CAUTION)

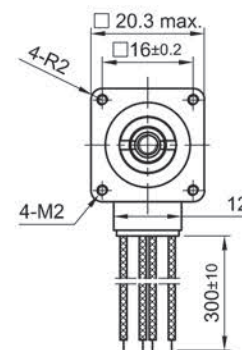
数据表中指定的力和额定功率基于 10%至 20% 的占空比，必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。

The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

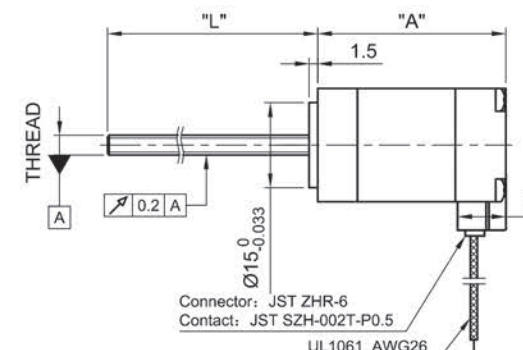
机械尺寸 (VERSIONS)

LSA20-A

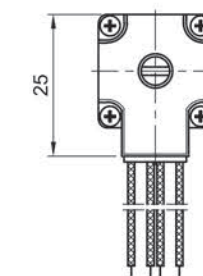
Front view and mounting



Side view

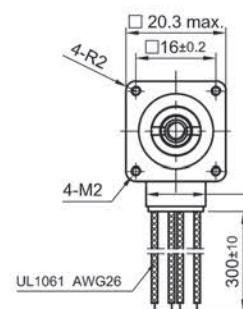


Rear view

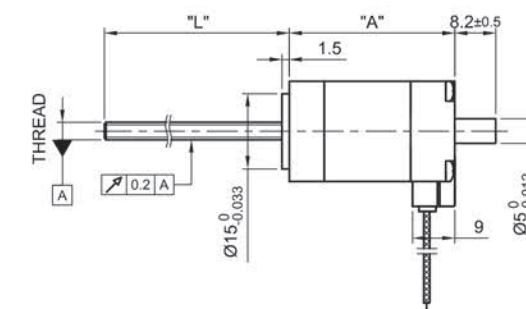


LSA20-B

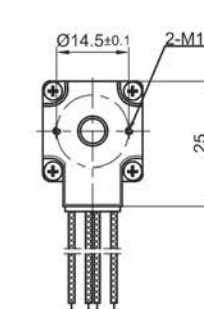
Front view and mounting



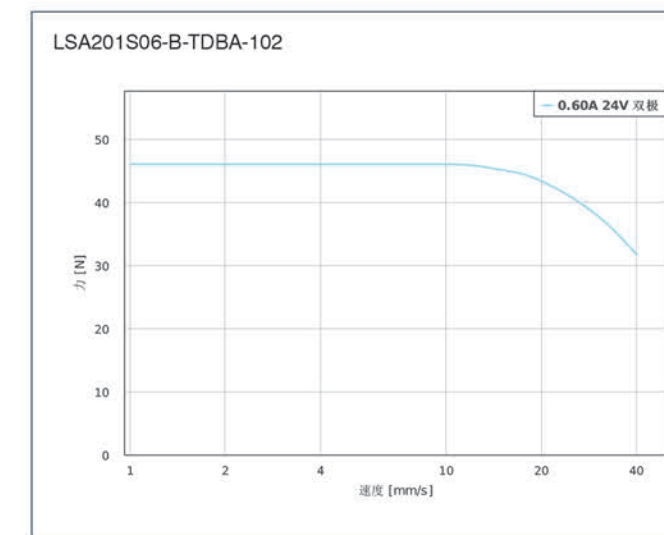
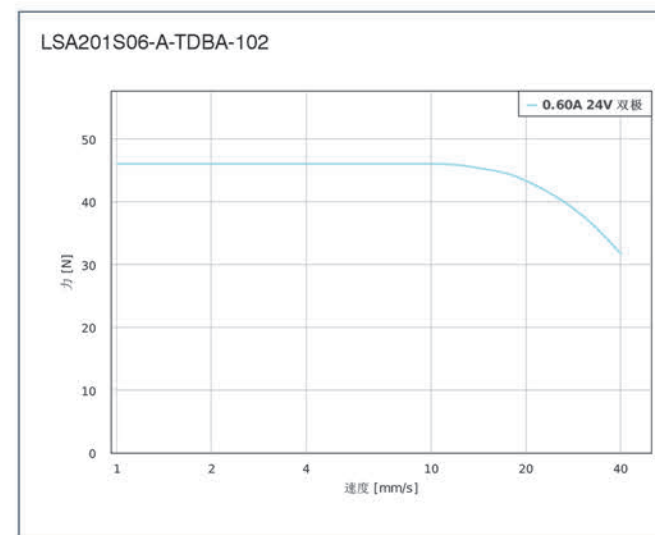
Side view



Rear view



速度推力曲线 (FORCE-VELOCITY CURVES)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.



选件 Options



型号 (VERSIONS)

型号	推力	速度	相电流	分辨率	相电阻	相电感	丝杆直径	导程	机身长度 "A"	衬套长度 "L"	重量
Type	Force N	Speed	Current per Winding A	Resolution $\mu\text{m}/\text{step}$	Resistance per Winding Ohm	Inductance per Winding mH	Thread Diameter mm	Thread Lead mm	Length "A" mm	Socket Length "L" mm	Weight
LA281S10-A-THCA	93.4	35	1	10	2.7	2.5	5	2	33	15	0.11
LA281S10-B-THCA	93.4	35	1	10	2.7	2.5	5	2	33	15	0.11
LA281S10-A-UGFC	50	120	1	25.4	2.7	2.5	4.76	5.08	33	15	0.11
LA281S10-B-UGFC	50	120	1	25.4	2.7	2.5	4.76	5.08	33	15	0.11
LA281S10-A-UGAQ	210	19	1	3.175	2.7	2.5	4.76	0.635	33	15	0.11
LA281S10-B-UGAQ	210	19	1	3.175	2.7	2.5	4.76	0.635	33	15	0.11
LA281M06-A-THCA	152.1	35	0.6	10	7.3	6.52	5	2	41	15	0.14
LA281M06-B-THCA	152.1	35	0.6	10	7.3	6.52	5	2	41	15	0.14
LA281M15-A-THCA	152.1	35	1.5	10	1.45	1.25	5	2	41	15	0.14
LA281M15-B-THCA	152.1	35	1.5	10	1.45	1.25	5	2	41	15	0.14

配件 (ACCESSORIES)

SCREW-ABA-UGAQ-200
带 ACME 螺纹的丝杆
SCREW-ABA-UGAQ-300
带 ACME 螺纹的丝杆
SCREW-AAA-UGAQ-1000
带 ACME 螺纹的丝杆
SCREW-ABA-UGFC-200
带 ACME 螺纹的丝杆
SCREW-ABA-UGFC-300
带 ACME 螺纹的丝杆
SCREW-AAA-UGFC-1000
带 ACME 螺纹的丝杆

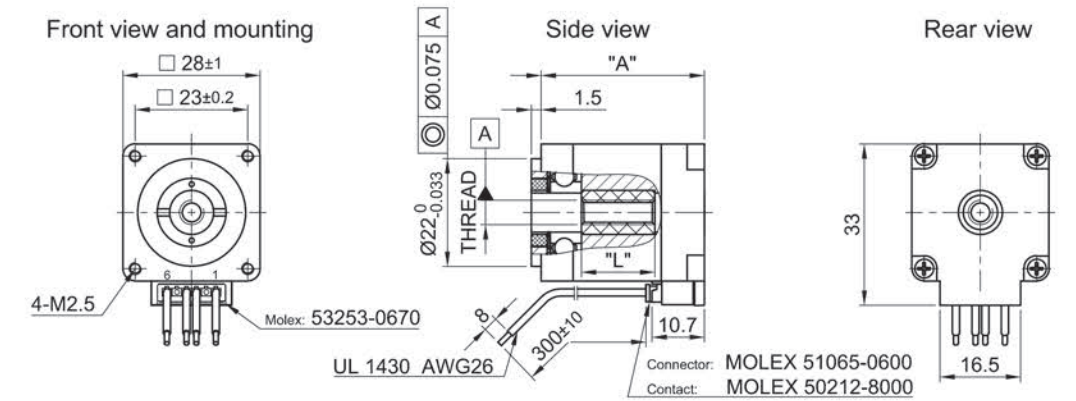
NANOLUBE-50G 润滑剂
SCREW-ABA-UGAQ-200
Lead Screw with ACME Thread
SCREW-ABA-UGAQ-300
Lead Screw with ACME Thread
SCREW-AAA-UGAQ-1000
Lead Screw with ACME Thread
SCREW-ABA-UGFC-200
Lead Screw with ACME Thread
SCREW-ABA-UGFC-300
Lead Screw with ACME Thread
SCREW-AAA-UGFC-1000
Lead Screw with ACME Thread
NANOLUBE-50G Lubricant

警告 (CAUTION)

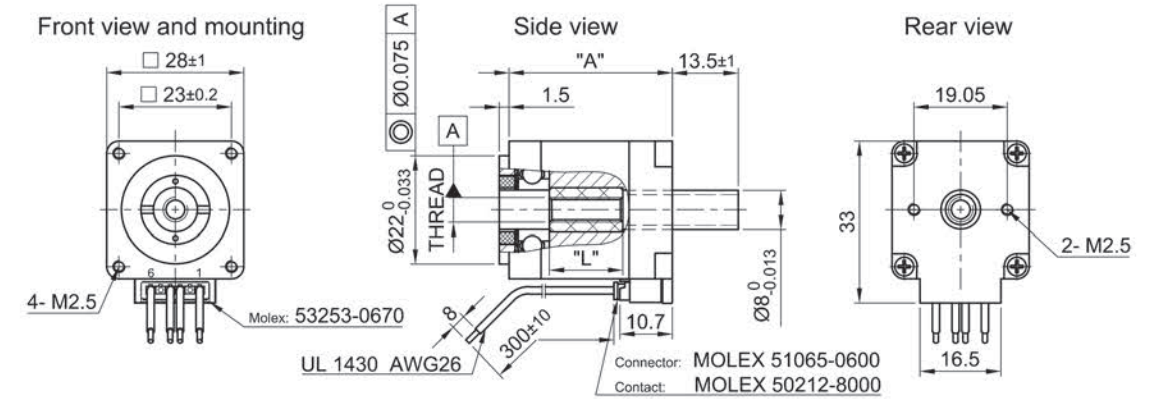
数据表中指定的力和额定功率基 10% 至 20% 的占空比, 必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。
The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

机械尺寸 (VERSIONS)

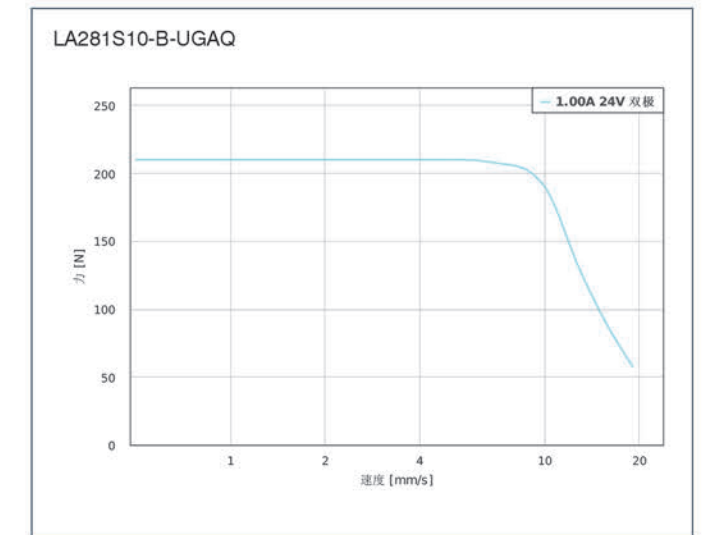
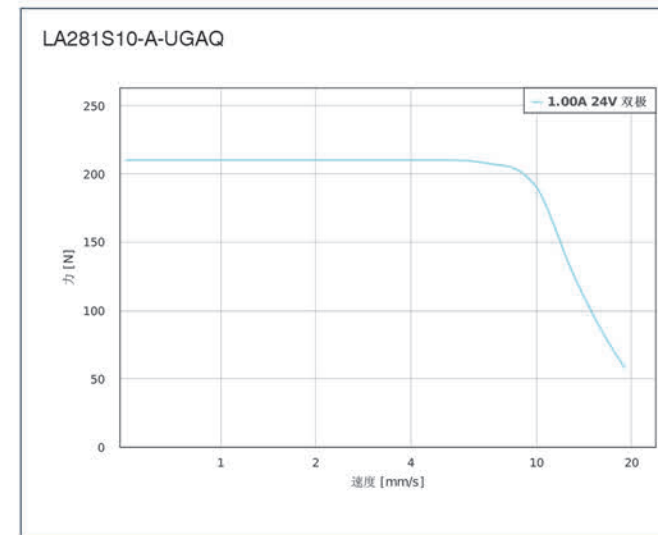
LA281-A



LA281-B



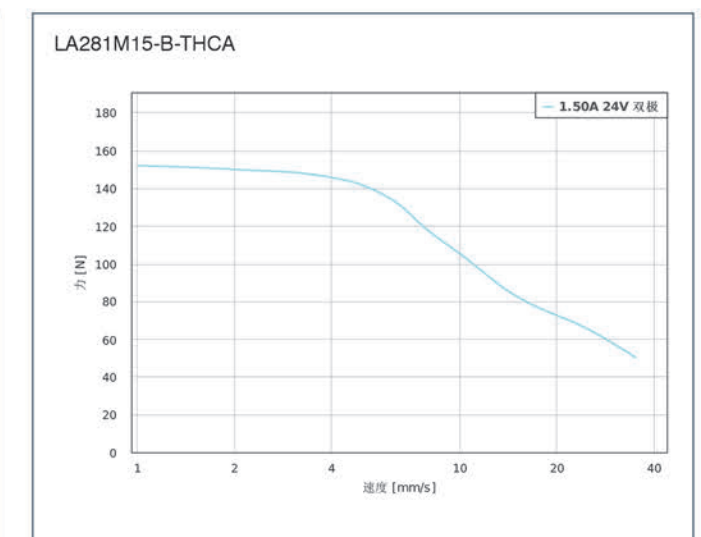
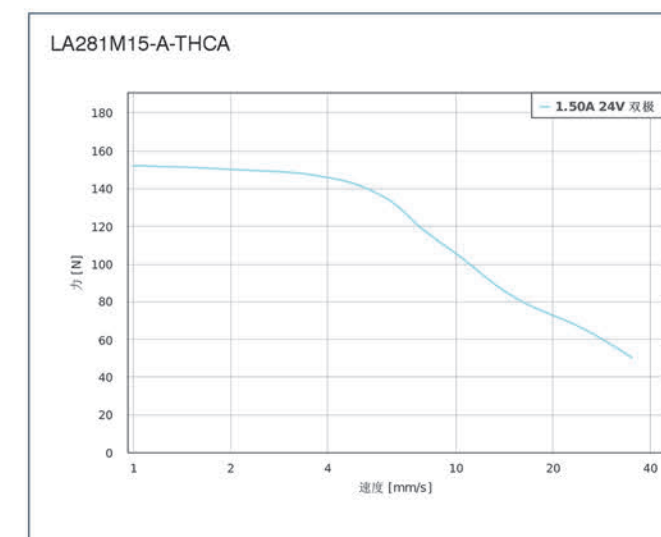
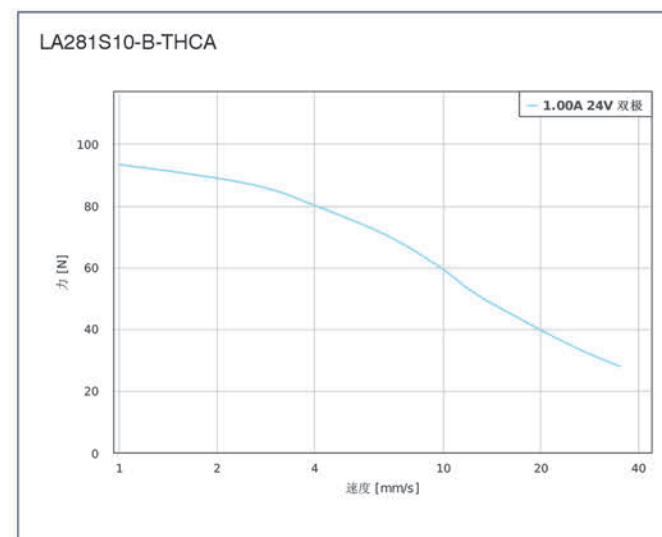
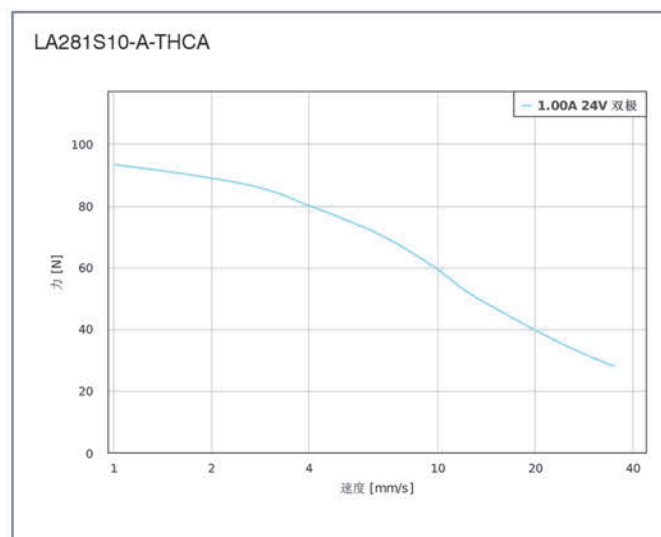
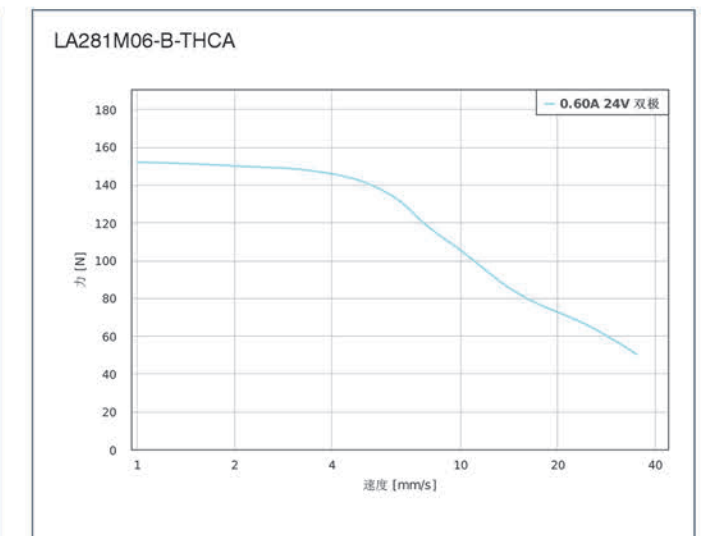
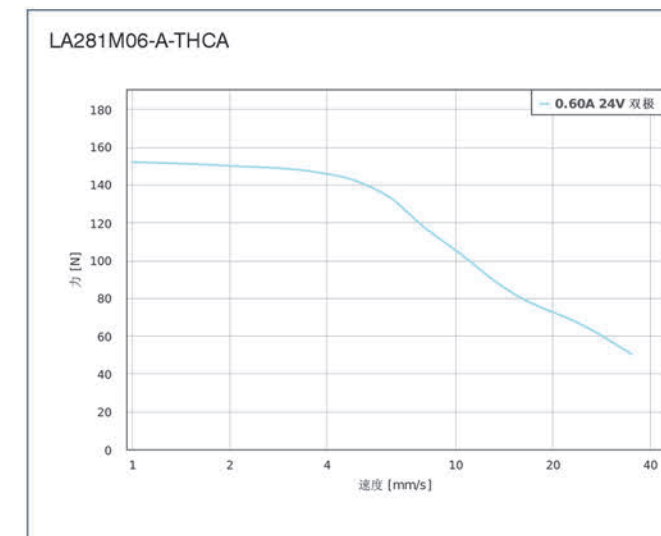
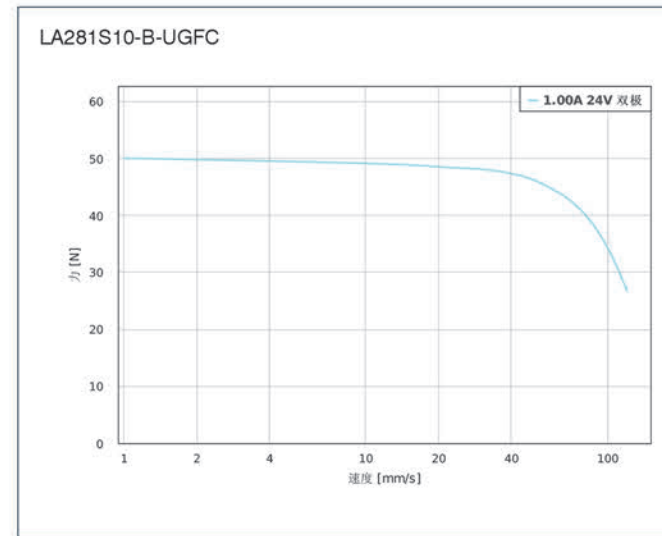
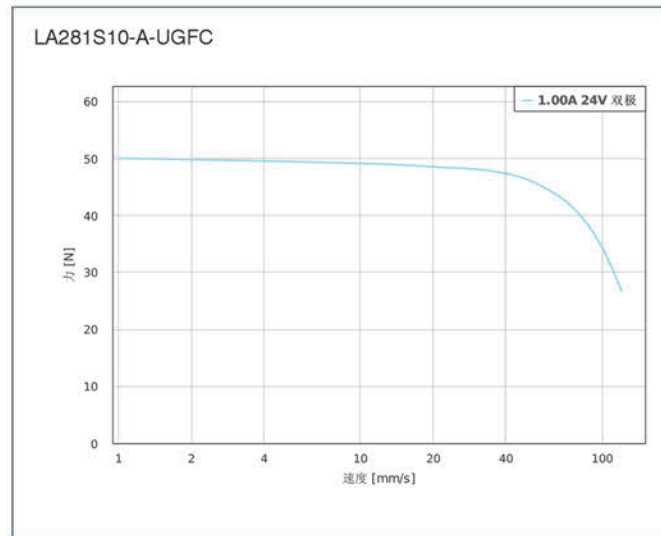
速度推力曲线 (FORCE-VELOCITY CURVES)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

速度推力曲线 (FORCE-VELOCITY CURVES)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.



选件 Options



型号 (VERSIONS)

型号	推力	速度	相电流	分辨率	相电阻	相电感	丝杆直径	导程	机身长度 "A"	行程长度 "X"	重量
Type	Force N	Speed mm/s	Current per Winding A	Resolution $\mu\text{m}/\text{step}$	Resistance per Winding Ohm	Inductance per Winding mH	Thread Diameter mm	Thread Lead mm	Length "A" mm	Stroke Length "X" mm	Weight Kg
LGA281S10-A-UGAQ-019	210	19	1	3.175	2.7	2.5	4.76	0.635	33	19.05	0.14
LGA281S10-B-UGAQ-019	210	19	1	3.175	2.7	2.5	4.76	0.635	33	19.05	0.14
LGA281S10-A-UGAQ-038	210	19	1	3.175	2.7	2.5	4.76	0.635	33	38.1	0.15
LGA281S10-B-UGAQ-038	210	19	1	3.175	2.7	2.5	4.76	0.635	33	38.1	0.15
LGA281S10-A-UGFC-019	50	120	1	25.4	2.7	2.5	4.76	5.08	33	19.05	0.14
LGA281S10-B-UGFC-019	50	120	1	25.4	2.7	2.5	4.76	5.08	33	19.05	0.15
LGA281S10-A-UGFC-038	50	120	1	25.4	2.7	2.5	4.76	5.08	33	38.1	0.14
LGA281S10-B-UGAQ-038	50	120	1	25.4	2.7	2.5	4.76	5.08	33	38.1	0.15
LGA281S10-A-THCA-019	93.4	35	1	10	2.7	2.5	5	2	33	19.05	0.14
LGA281S10-B-THCA-019	93.4	35	1	10	2.7	2.5	5	2	33	19.5	0.14
LGA281S10-A-THCA-038	93.4	35	1	10	2.7	2.5	5	2	33	38.1	0.14
LGA281S10-B-THCA-038	93.4	35	1	10	2.7	2.5	5	2	33	38.1	0.14

配件 (ACCESSORIES)

NANOLUBE-50G 润滑剂
NANOLUBE-50G Lubricant

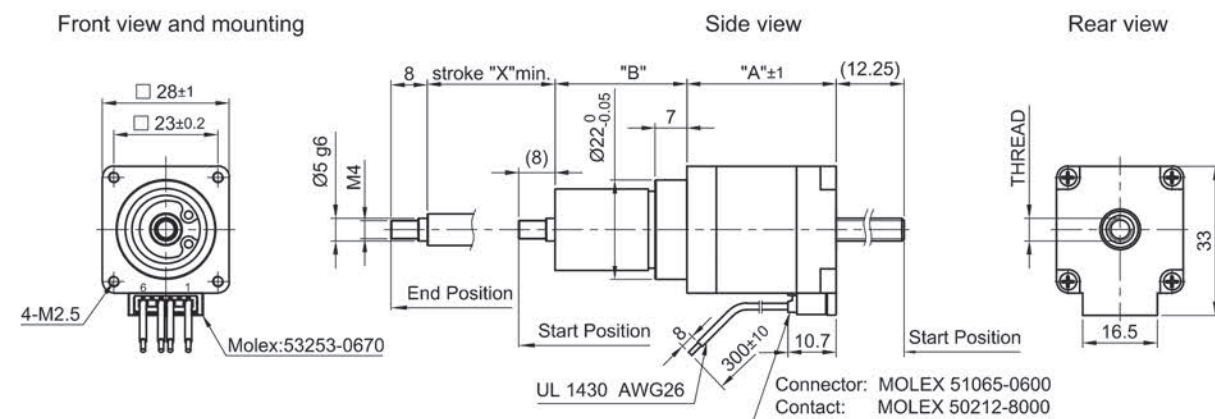
警告 (CAUTION)

数据表中指定的力和额定功率基于 10%至 20% 的占空比，必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。

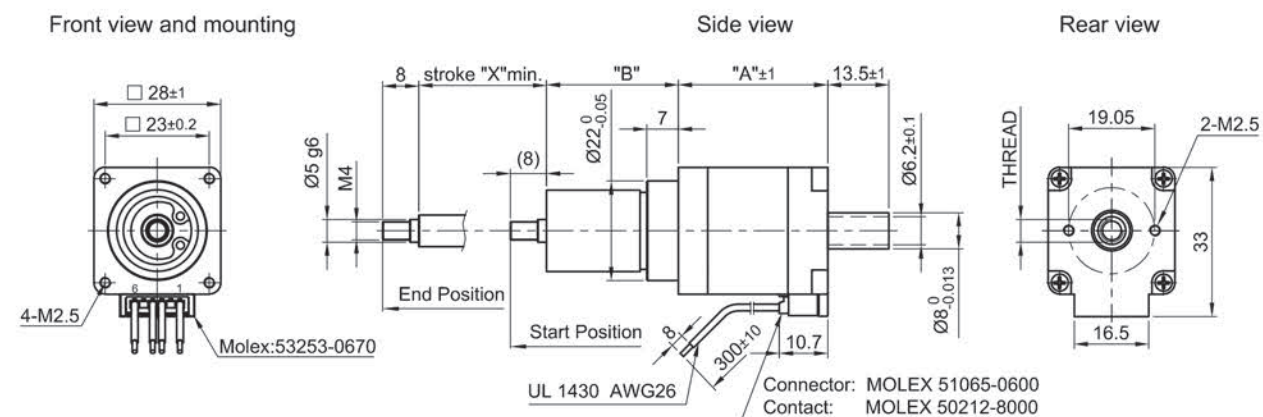
The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

机械尺寸 (VERSIONS)

LGA28-A



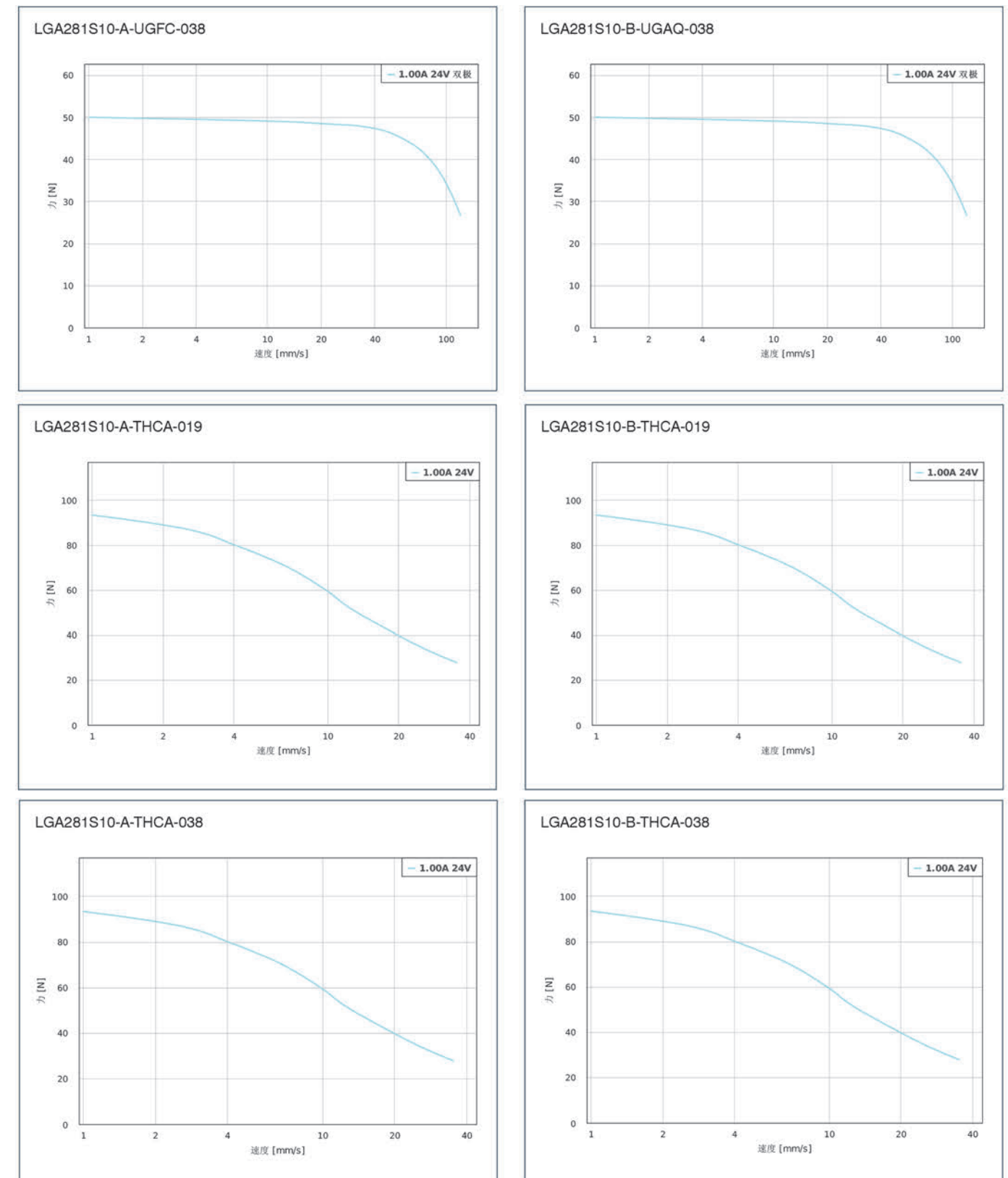
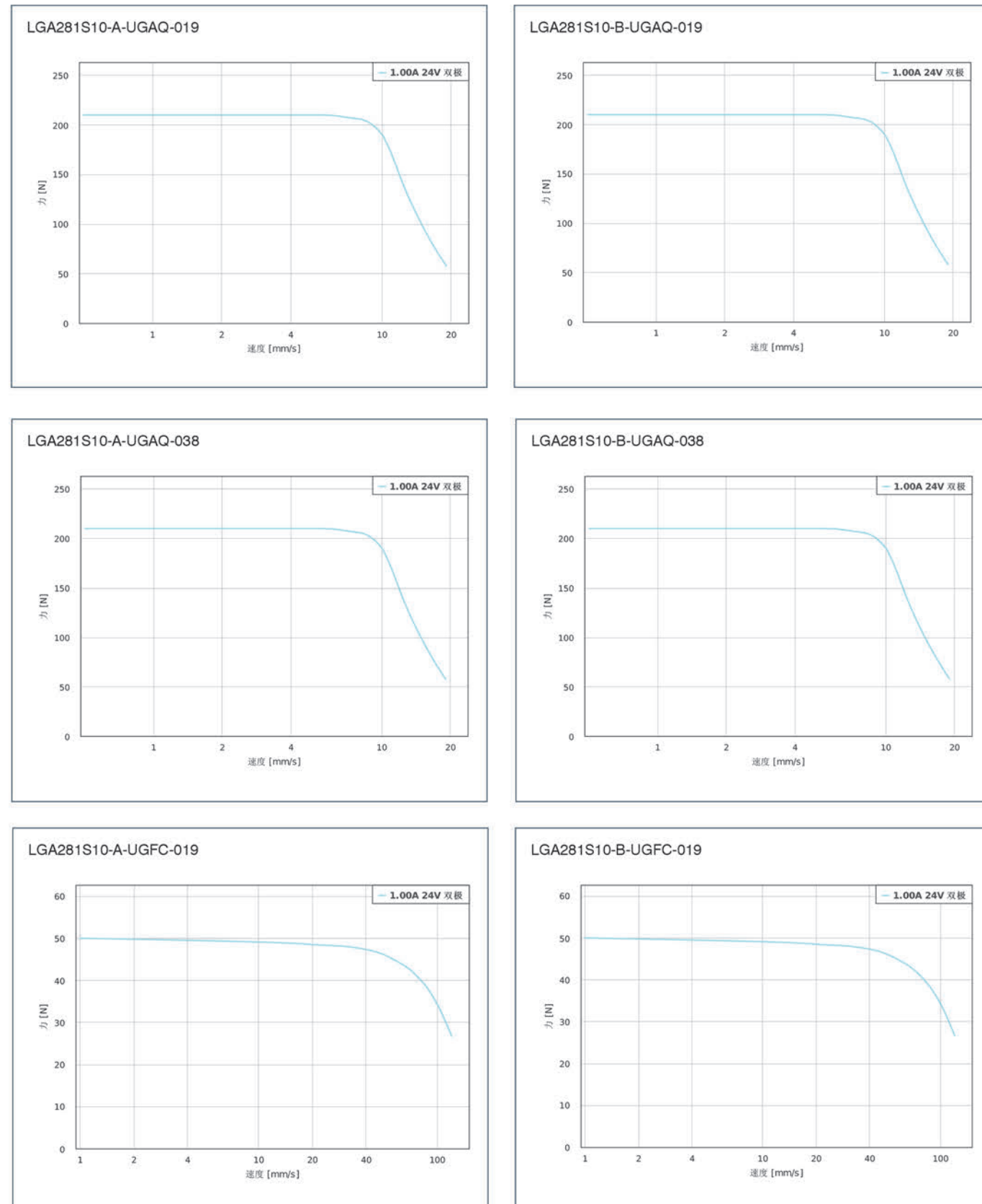
LGA28-B



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

速度推力曲线 (FORCE-VELOCITY CURVES)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

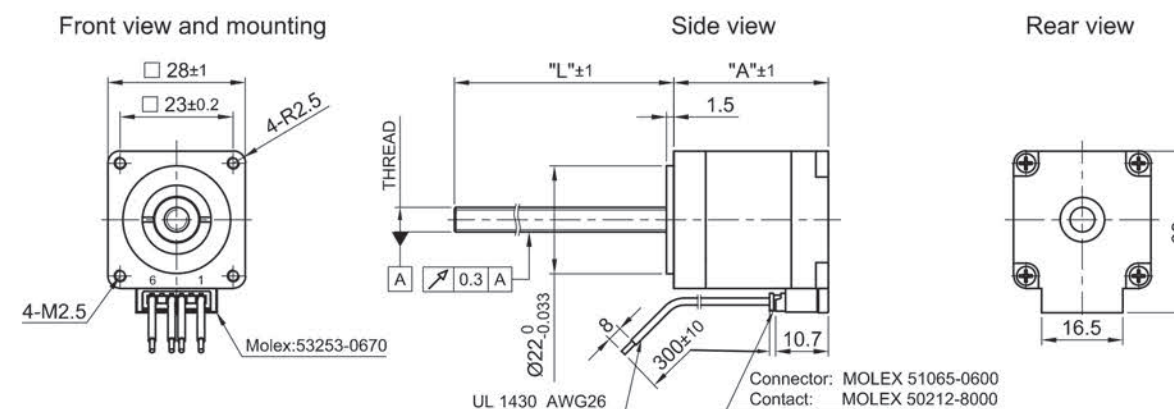


选件 Options

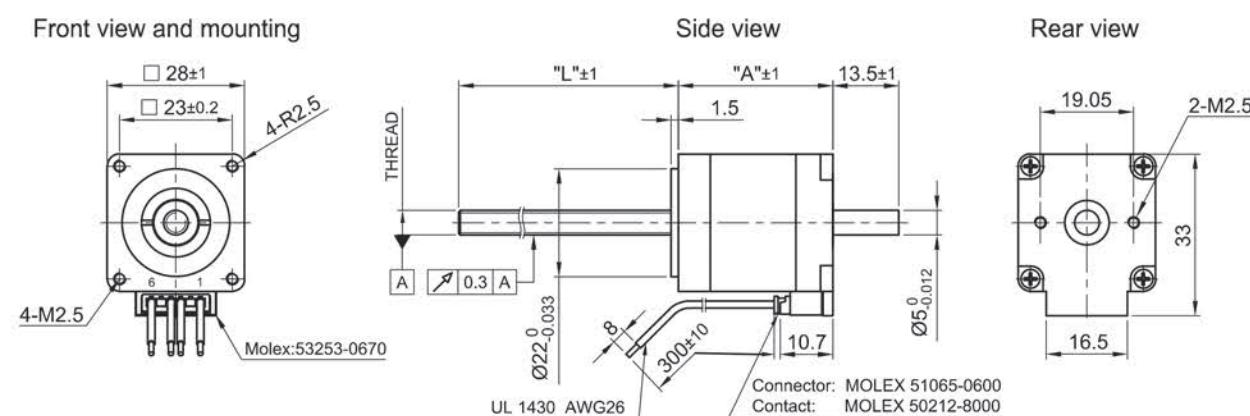


机械尺寸 (VERSIONS)

LSA28-A



LSA28-B



型号 (VERSIONS)

型号	推力	速度	相电流	分辨率	相电阻	相电感	丝杆直径	导程	机身长度	丝杆长度	重量
Type	Force N	Speed mm/s	Current per Winding A	Resolution µm/step	Resistance per Winding Ohm	Inductance per Winding mH	Thread Diameter mm	Thread Lead mm	Length "A" mm	Screw Length "L" mm	Weight kg
LSA281S10-A-UGAQ-152	210	19	1	3.175	2.7	2.5	4.76	0.635	33	152	0.13
LSA281S10-B-UGAQ-152	210	19	1	3.175	2.7	2.5	4.76	0.635	33	152	0.13
LSA281S10-A-UGFC-152	50	120	1	25.4	2.7	2.5	4.76	5.08	33	152	0.13
LSA281S10-B-UGFC-152	50	120	1	25.4	2.7	2.5	4.76	5.08	33	152	0.13
LSA281S10-A-THCA-152	93.4	35	1	10	2.7	2.5	5	2	33	152	0.13
LSA281S10-B-THCA-152	93.4	35	1	10	2.7	2.5	5	2	33	152	0.13

配件 (ACCESSORIES)

LSNUT-AAAA-UGAQ 螺纹螺母 – POM
 LSNUT-AAAA-UGFC 螺纹螺 – POM
 LSNUT-AAAA-THCA 螺纹螺 – POM
 NANOLUBE-50G 润滑剂

LSNUT-AAAA-UGAQ Threaded Nut – POM
 LSNUT-AAAA-UGFC Threaded Nut – POM
 LSNUT-AAAA-THCA Threaded Nut – POM
 NANOLUBE-50G Lubricant

警告 (CAUTION)

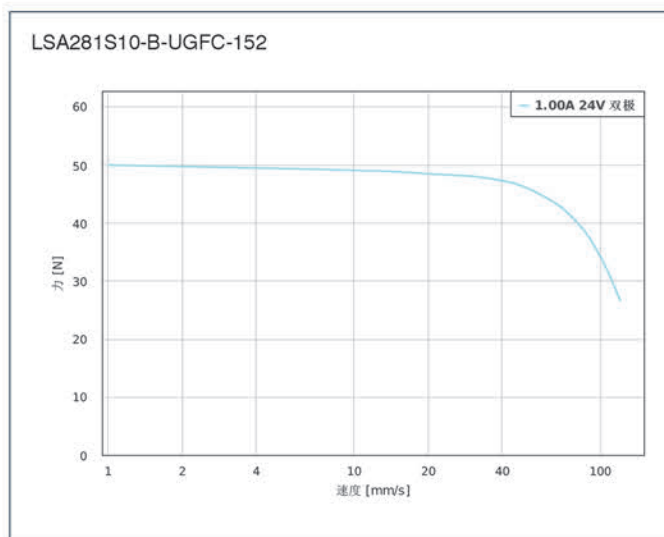
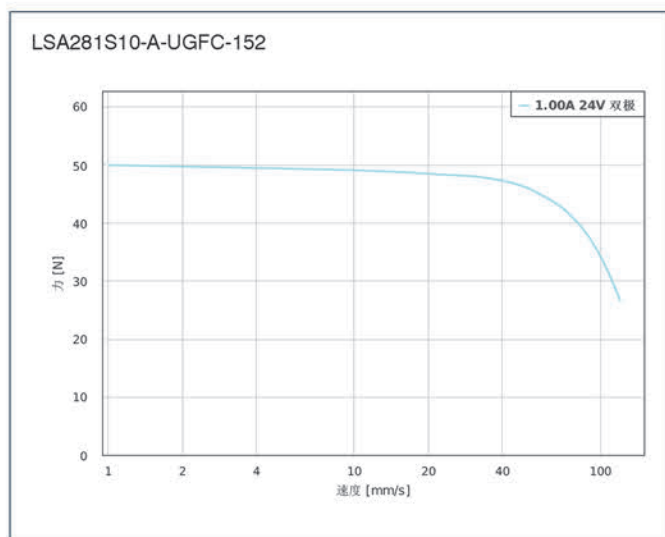
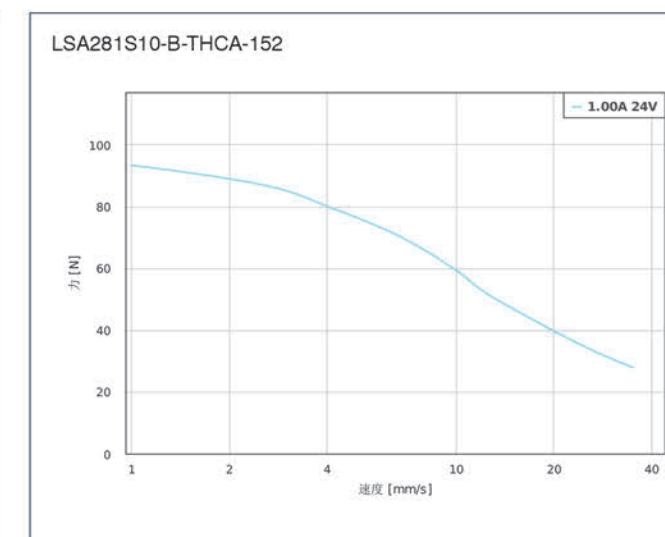
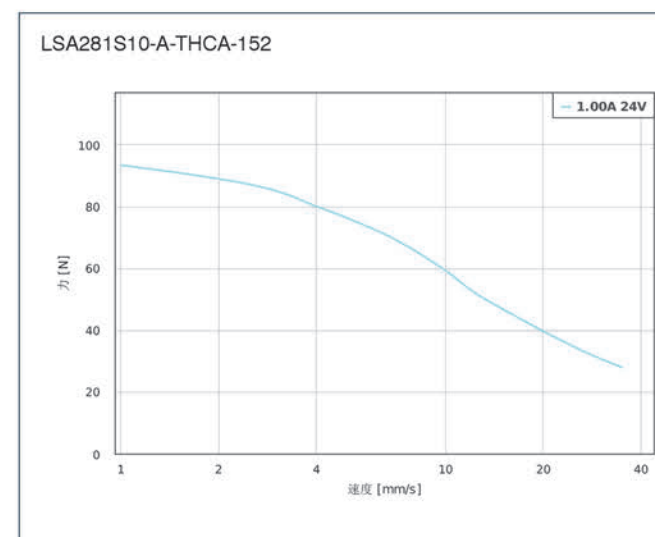
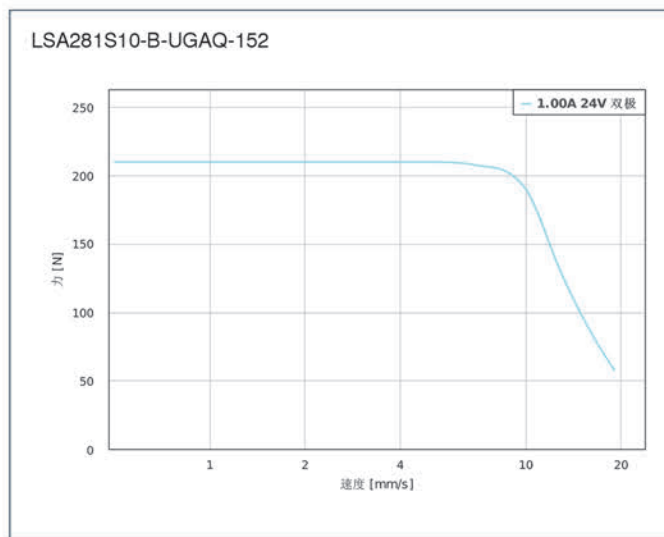
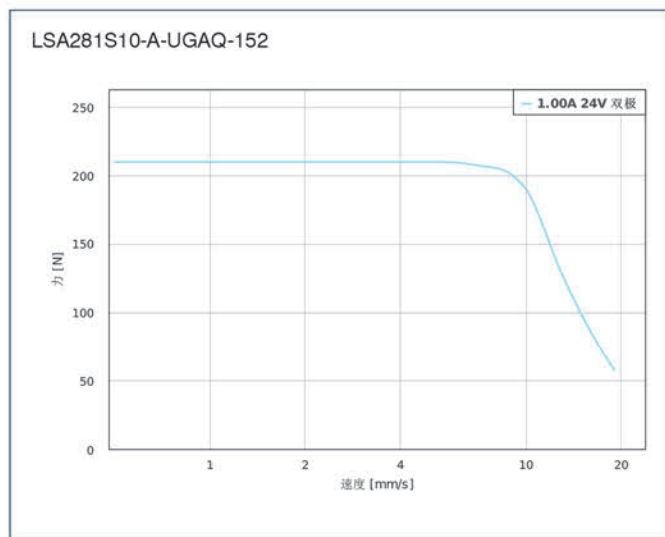
数据表中指定的力和额定功率基于 10%至 20% 的占空比，必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。

The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

速度推力曲线 (FORCE-VELOCITY CURVES)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.



选件 Options



接插件

型号 (VERSIONS)

型号 (TYPE)	推力 Force N	速度 Speed mm/s	相电流 Current per Winding A	分辨率 Resolution μm/步	相电阻 Resistance per Winding Ohm	相电感 Inductance per Winding Mh	丝杆直径 Thread Diameter mm	导程 Thread Lead mm	机身长度 "A" Length mm	重量 Weight kg
LA351S12-A-TJBA	220	24	1.2	5	1.85	2	6	1	33.6	0.15
LA351S12-B-TJBA	220	24	1.2	5	1.85	2	6	1	33.6	0.15
LA351S12-A-TJCA	150	50	1.2	10	1.85	2	6	2	33.6	0.15
LA351S12-B-TJCA	150	50	1.2	10	1.85	2	6	2	33.6	0.15
LA351S12-A-UKGI	70	100	1.2	31.75	1.85	2	6.35	6.35	33.6	0.15
LA351S12-B-UKGI	70	100	1.2	31.75	1.85	2	6.35	6.35	33.6	0.15
LA351M12-A-TJBA	350	30	1.2	5	3.2	3.4	6	1	43.6	0.22
LA351M12-B-TJBA	350	30	1.2	5	3.2	3.4	6	1	43.6	0.22
LA351M12-A-UKGI	120	110	1.2	31.75	3.2	3.4	6.35	6.35	43.6	0.22
LA351M12-B-UKGI	120	110	1.2	31.75	3.2	3.4	6.35	6.35	43.6	0.22

配件 (ACCESSORIES)

SCREW-ABA-TJCA-200
带梯形螺纹的丝杆
Lead Screw with Trapezoidal Thread

SCREW-ABA-TJCA-300
带梯形螺纹的丝杆
Lead Screw with Trapezoidal Thread

SCREW-AAA-TJCA-1000
带梯形螺纹的丝杆
Lead Screw with Trapezoidal Thread

SCREW-ABA-UKGI-200
ACME 螺纹的丝杆
Lead Screw with ACME Thread

SCREW-ABA-UKGI-300
带 ACME 螺纹的丝杆
Lead Screw with ACME Thread

SCREW-AAA-UKGI-1000
带 ACME 螺纹的丝杆
Lead Screw with ACME Thread

ZK-JST-EHR-6-0.5M-S
电机线缆 0.5米
Motor Cable 0.5 m

NANOLUBE-50G 润滑剂
Lubricant

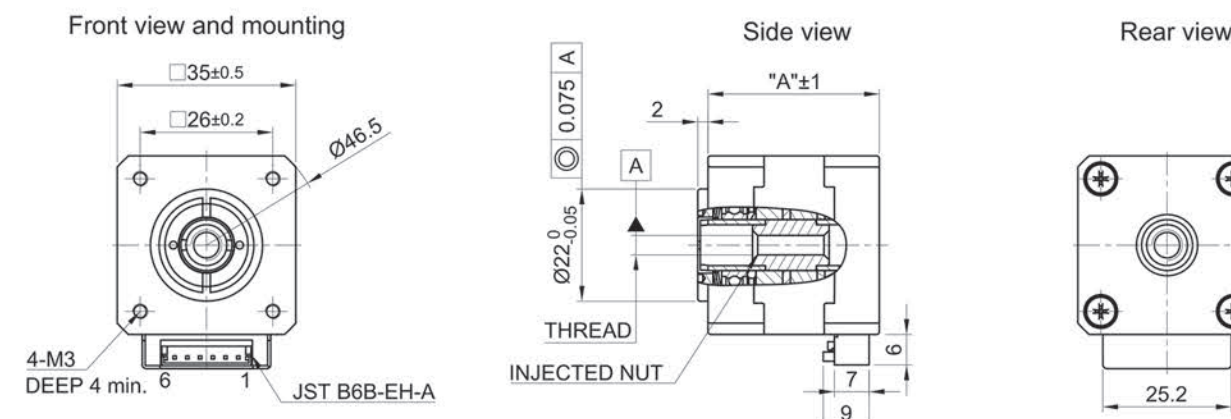
警告 (CAUTION)

数据表中指定的力和额定功率基 10% 至 20% 的占空比, 必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。

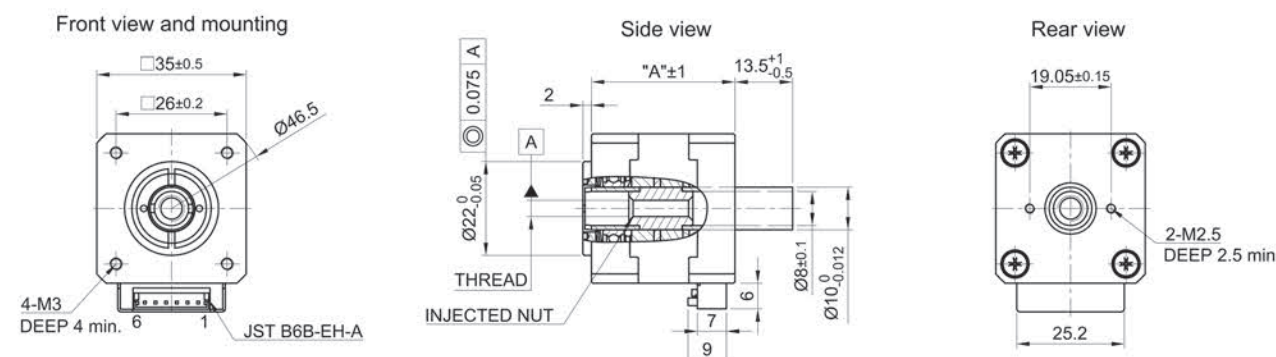
The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

机械尺寸 (VERSIONS)

LA351-A



LA351-B



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

选件 Options

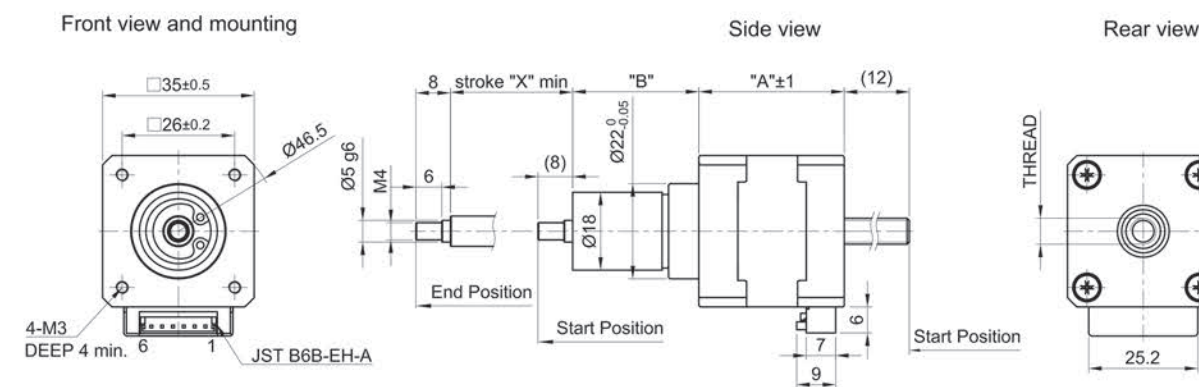


接插件

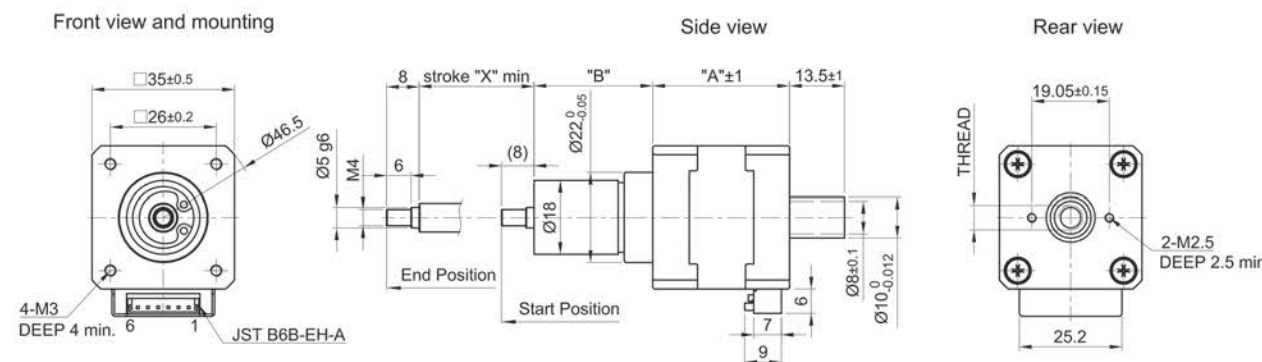


机械尺寸 (VERSIONS)

LGA351-A



LGA351-B



型号 (VERSIONS)

型号 (TYPE)	推力 Force N	速度 Speed mm/s	相电流 Current per Winding A	分辨率 Resolution µm/步	相电阻 Resistance per Winding Ohm	相电感 Inductance per Winding mH	丝杆直径 Thread Diameter mm	导程 Thread Lead mm	机身长度 "A" Length mm	行程长度 "X" Stroke Length mm	重量 Wei ght kg
LGA351S12-A-UKGI-019	70	100	1.2	31.75	1.85	2	6.35	6.35	33.6	19.05	0.2
LGA351S12-B-UKGI-019	70	100	1.2	31.75	1.85	2	6.35	6.35	33.6	19.05	0.2
LGA351S12-A-UKGI-038	70	100	1.2	31.75	1.85	2	6.35	6.35	33.6	38.1	0.2
LGA351S12-B-UKGI-038	70	100	1.2	31.75	1.85	2	6.35	6.35	33.6	38.1	0.2
LGA351M12-B-UKGI-025	120	110	1.2	31.75	3.2	3.4	6.35	6.35	43.6	25.4	0.27
LGA351M12-B-UKGI-063	120	110	1.2	31.75	3.2	3.4	6.35	6.35	43.6	63.5	0.27

配件 (ACCESSORIES)

ZK-JST-EHR-6-0.5M-S 电机线缆 0.5米
Motor Cable 0.5 m

警告 (CAUTION)

数据表中指定的力和额定功率基于 10%至 20% 的占空比，必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。

The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

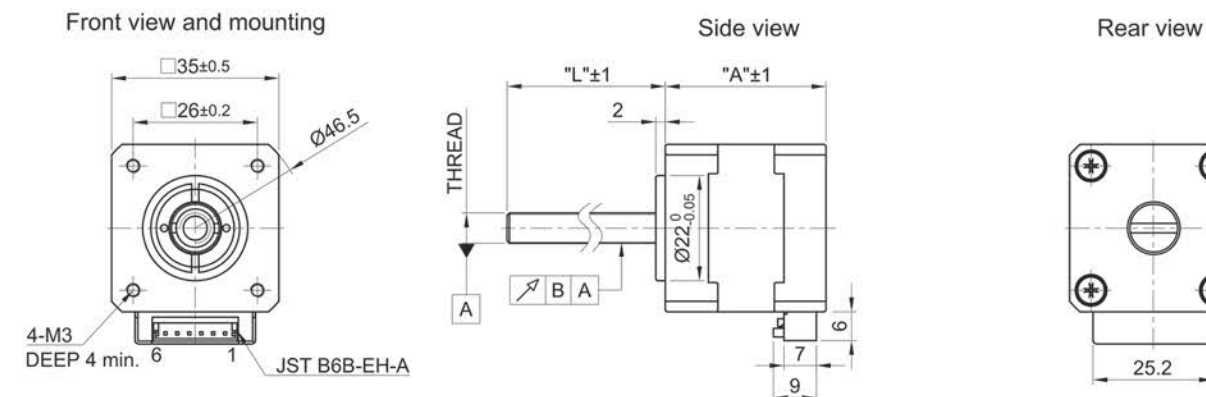


选件 Options

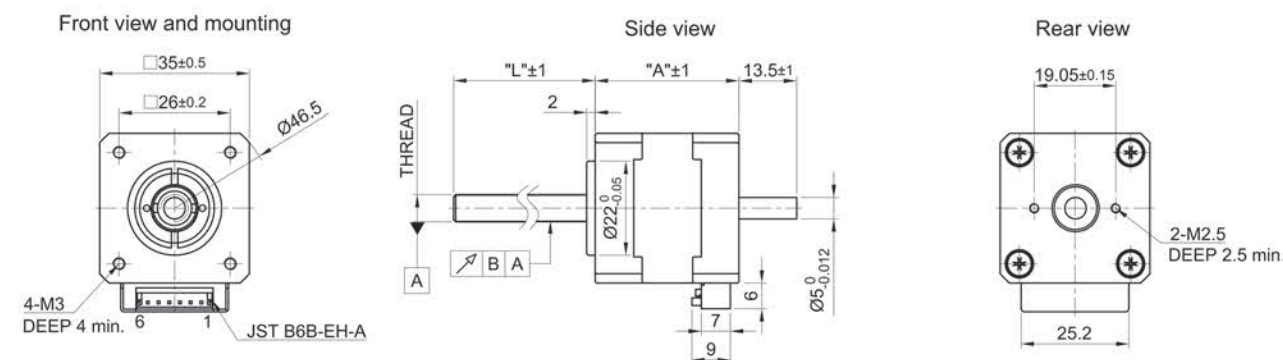


机械尺寸 (VERSIONS)

LSA351-A



LSA351-B



型号 (VERSIONS)

型号 (TYPE)	推力 Force N	速度 Speed mm/s	相电流 Current per Winding A	分辨率 Resolution µm/步	相电阻 Resistance per Winding Ohm	相电感 Inductance per Winding mH	丝杆直径 Thread Diameter mm	导程 Thread Lead mm	丝杆长度 "L" mm	机身长度 "A" mm	重量 Weight kg
LSA351S12-A-UKGI-152	70	100	1.2	31.75	1.85	2	6.35	6.35	152	33.6	0.18
LSA351S12-B-UKGI-152	70	100	1.2	31.75	1.85	2	6.35	6.35	152	33.6	0.18
LSA351M12-B-TJCA-152	210	55	1.2	10	3.2	3.4	6	2	152	43.6	0.25
LSA351M12-B-UKGI-152	120	110	1.2	31.75	3.2	3.4	6.35	6.35	152	43.6	0.25

配件 (ACCESSORIES)

- LSNUT-AAAAE-TJCA 螺纹螺母 – POM (Threaded Nut – POM)
- LSNUT-AAAAE-UKGI 螺纹螺母 – POM (Threaded Nut – POM)
- LSNUT-AEAE-TJCA预装螺纹螺母 – POM (pre-Loaded Threaded Nut - POM)
- LSNUT-AEAE-UKGI预装螺纹螺母 – POM (Loaded Threaded Nut - POM)
- ZK-JST-EHR-6-0.5M-S 电机线缆 0.5米 (Motor Cable 0.5 m)
- NANOLUBE-50G 润滑剂 (Lubricant)

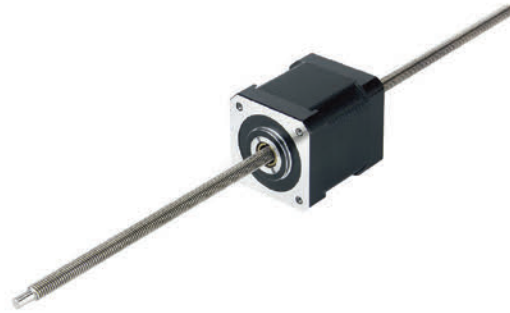
警告 (CAUTION)

数据表中指定的力和额定功率基于 10%至 20% 的占空比，必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。

The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.



选件 Options



接插件

型号 (VERSIONS)

型号 Type	推力 Force N	速度 Speed mm/s	相电流 Current per Winding A	分辨率 Resolution μm/step	相电阻 Resistance per Winding ohm	相电感 Inductance per Winding mH	丝杆直径 Thread Diameter mm	导程 Thread Lead mm	机身长度 Length "A" mm	衬套长度 Length "L" mm	重量 Weight kg
LA421S07-A-TJCA	258.3	55	0.7	10	9.3	12.8	6	2	33.4	15	0.2
LA421S07-B-TJCA	258.3	55	0.7	10	9.3	12.8	6	2	33.4	15	0.2
LA421S14-A-TJCA	258.3	55	1.4	10	2	2.8	6	2	33.4	15	0.2
LA421S14-A-UKGI	152	80	1.4	31.75	2	2.8	6.35	6.35	33.4	15	0.2
LA421S14-B-UKGI	152	80	1.4	31.75	2	2.8	6.35	6.35	33.4	15	0.2
LA421S14-B-TJCA	258.3	55	1.4	10	2	2.8	6	2	33.4	15	0.2
LA421L13-A-TJCA	369	50	1.3	10	3.8	6.15	6	2	47.4	15	0.34
LA421L13-B-TJCA	369	50	1.3	10	3.8	6.15	6	2	47.4	15	0.34
LA421L18-A-TJCA	369	50	1.8	10	1.75	3.25	6	2	47.4	15	0.34
LA421L18-B-TJCA	369	50	1.8	10	1.75	3.25	6	2	47.4	15	0.34
LA421L18-B-UKGI	275.1	80	1.8	31.75	1.75	3.4	6.35	6.35	47.4	15	0.34

配件 (ACCESSORIES)

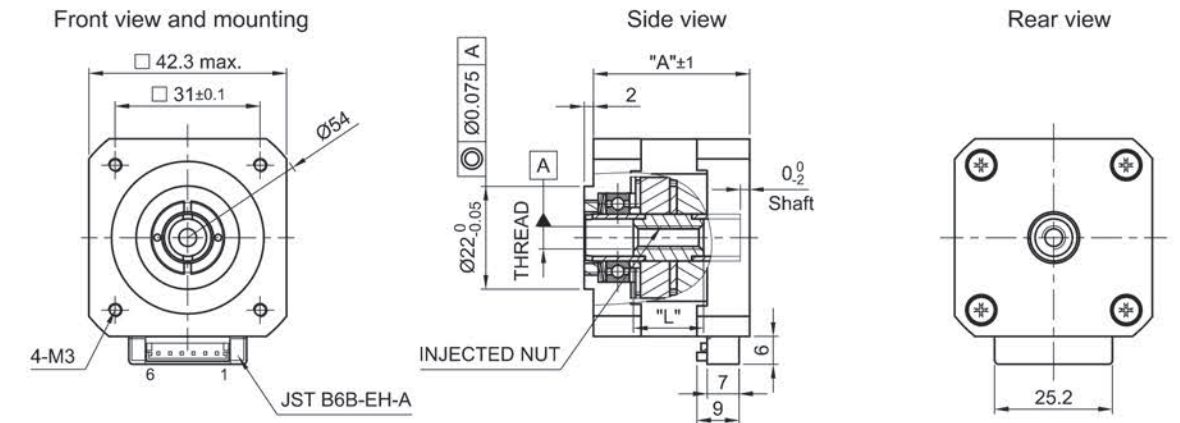
- SCREW-ABA-TJCA-200
带梯形螺纹的丝杆 (Lead Screw with Trapezoidal Thread)
- SCREW-ABA-TJCA-300
带梯形螺纹的丝杆 (Lead Screw with Trapezoidal Thread)
- SCREW-AAA-TJCA-1000
带梯形螺纹的丝杆 (Lead Screw with Trapezoidal Thread)
- SCREW-ABA-UKGI-200
带 ACME 螺纹的丝杆 (Lead Screw with ACME Thread)
- SCREW-ABA-UKGI-300
带 ACME 螺纹的丝杆 (Lead Screw with ACME Thread)
- SCREW-AAA-UKGI-1000
带 ACME 螺纹的丝杆 (Lead Screw with ACME Thread)
- ZK-JST-EHR-6-0.5M-S
电机线缆 0.5米 (Motor Cable 0.5 m)
- NANOLUBE-50G 润滑剂 (Lubricant)

警告 (CAUTION)

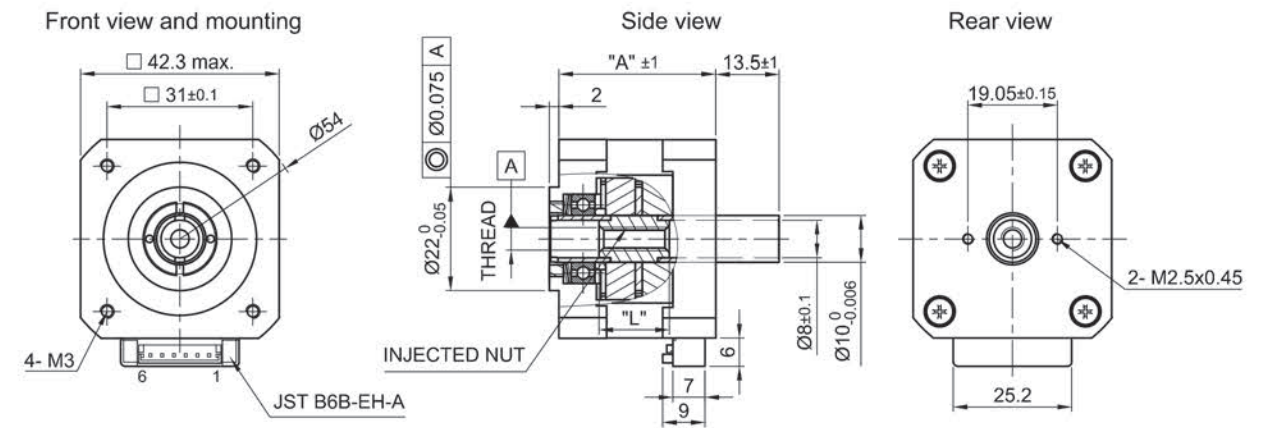
数据表中指定的力和额定功率基 10% 至 20% 的占空比, 必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。
The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

机械尺寸 (VERSIONS)

LA421-A



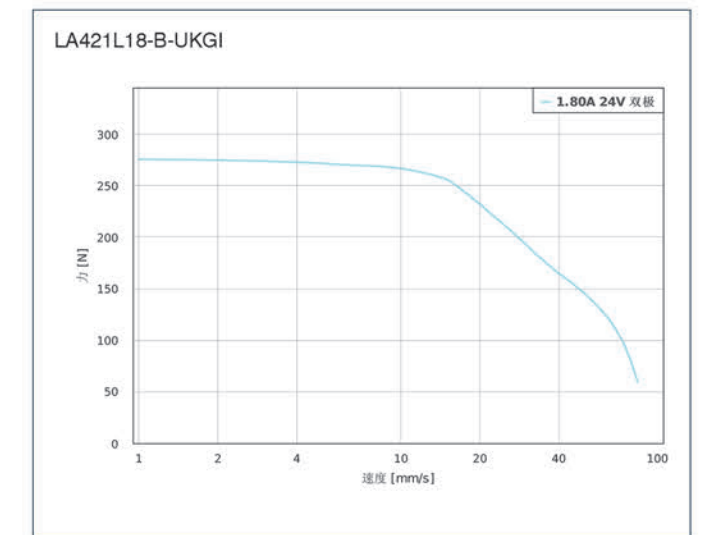
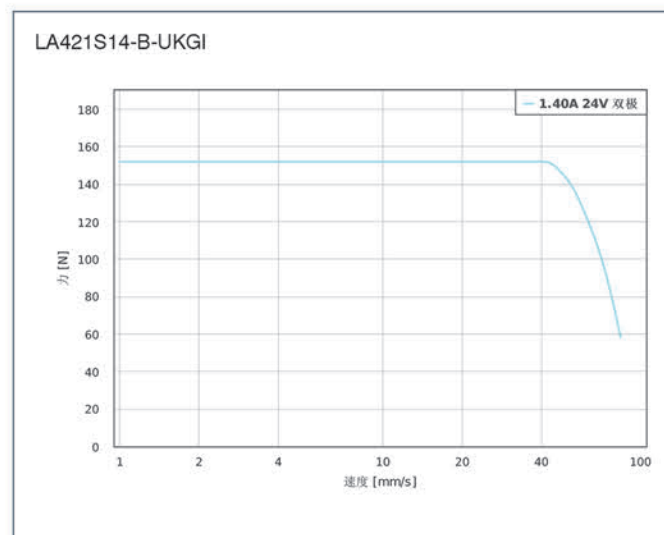
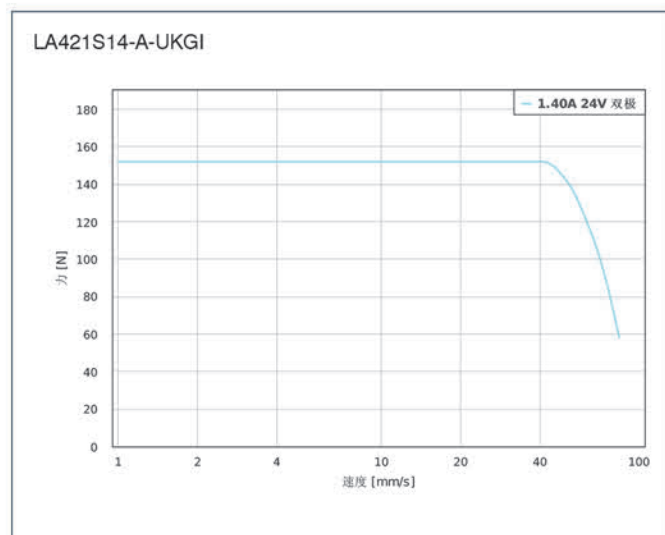
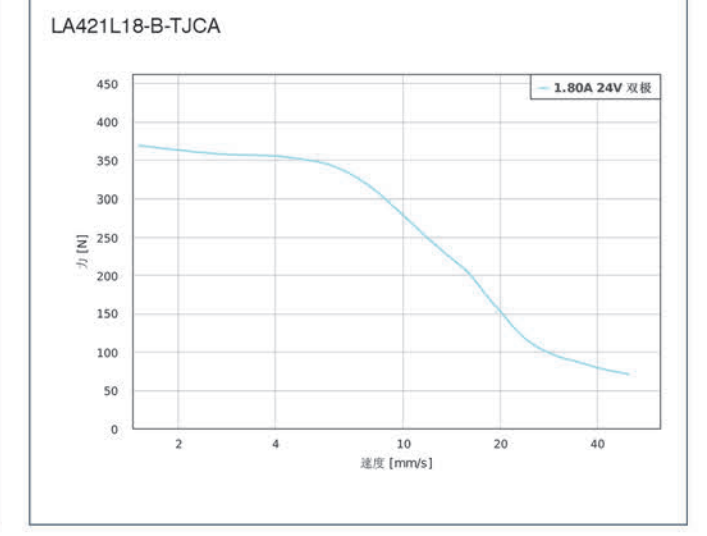
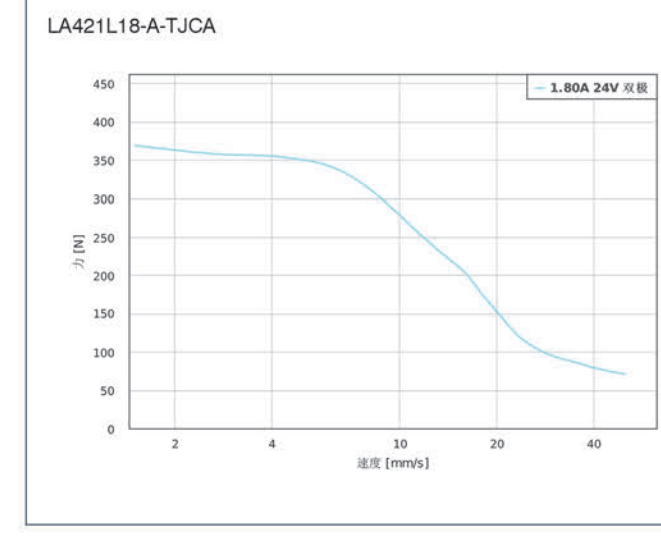
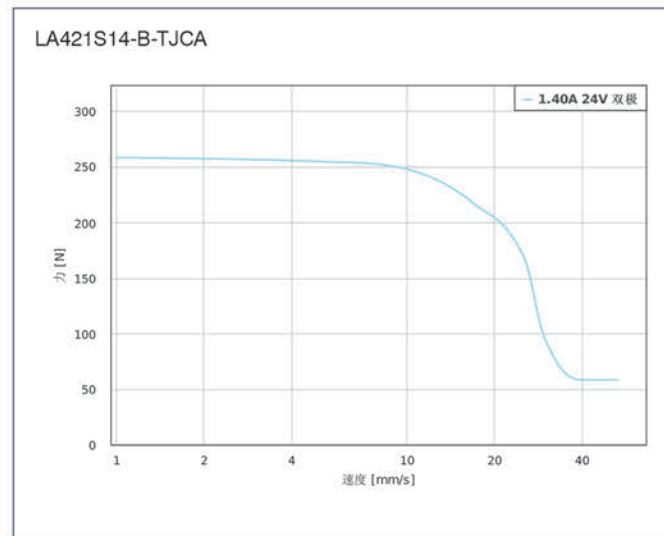
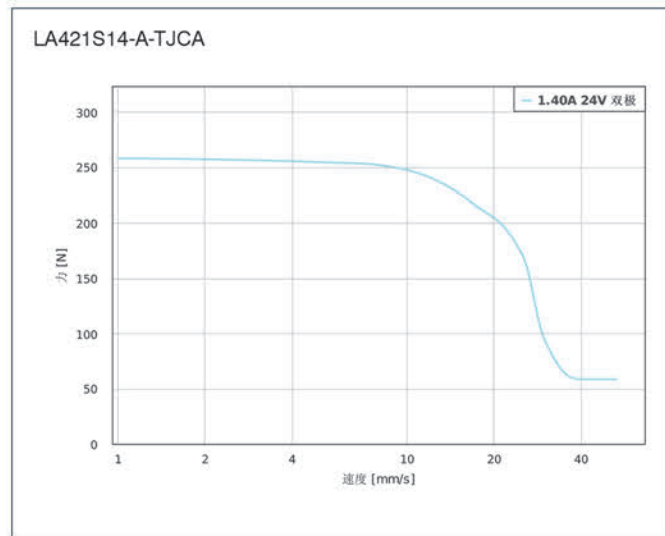
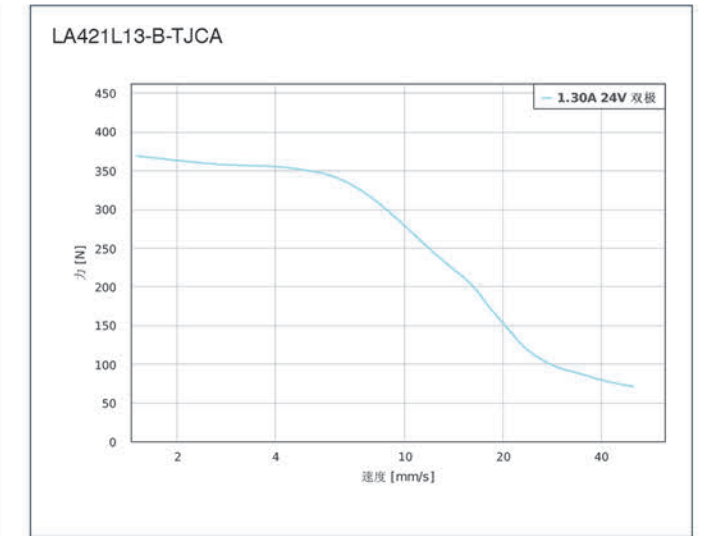
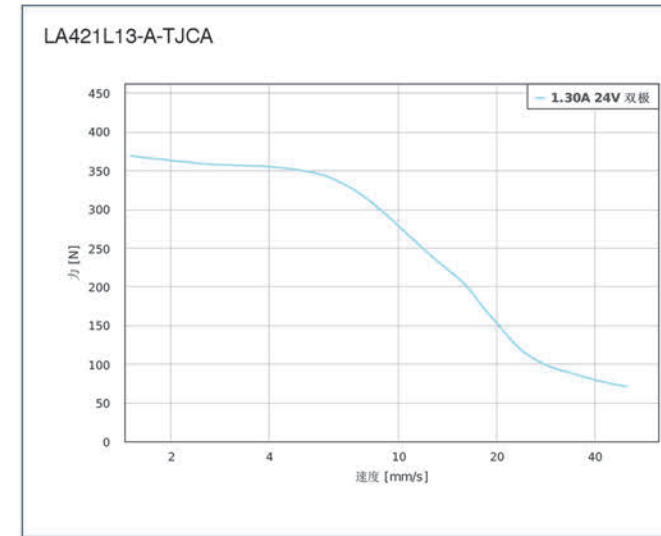
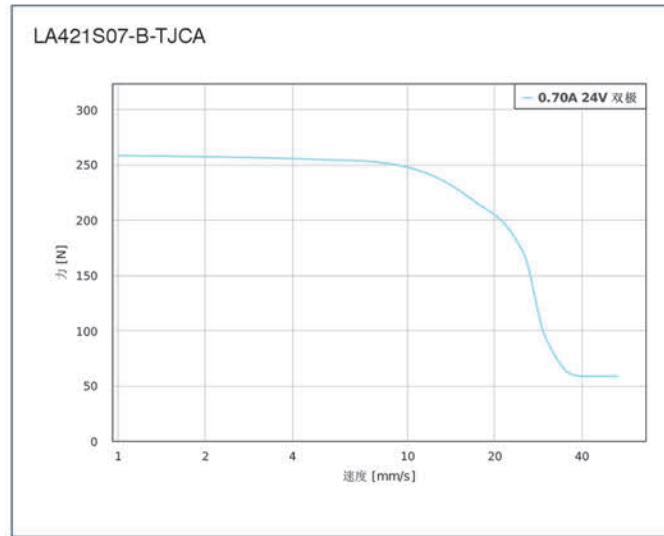
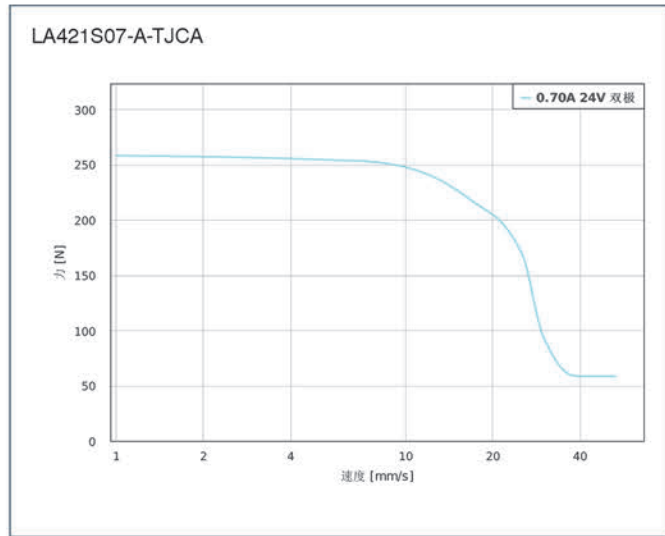
LA421-B



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

速度推力曲线 (FORCE-VELOCITY CURVES)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

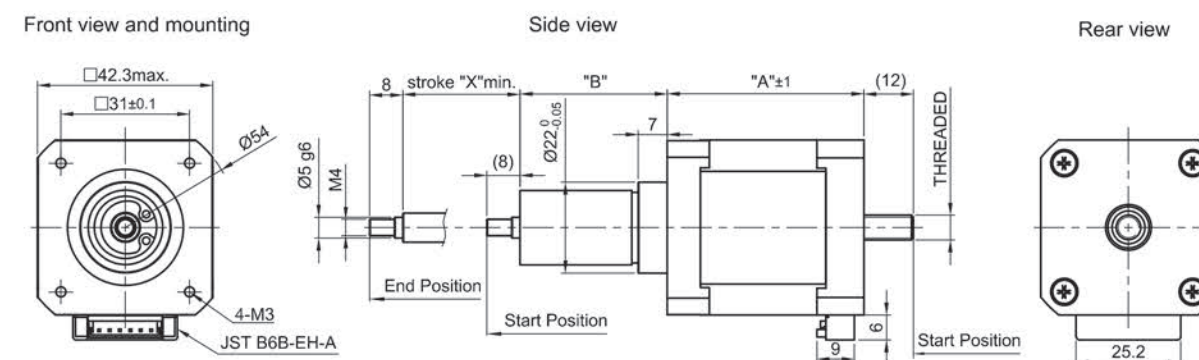


选件 Options

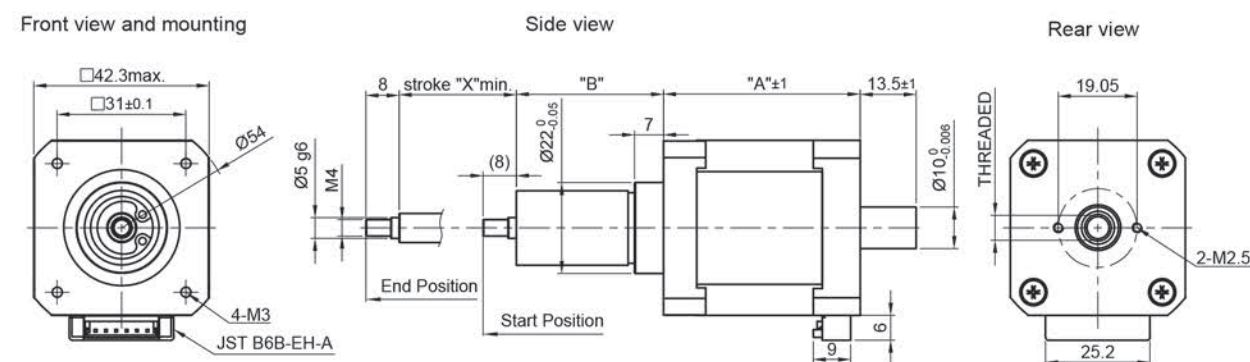


机械尺寸 (VERSIONS)

LGA421-A



LGA421-B



型号 (VERSIONS)

型号	推力	速度	相电流	分辨率	相电阻	相电感	丝杆直径	导程	机身长度 "A"	行程长度 "X"	重量
Type	Force	Speed	Current per Winding	Resolution	Resistance Per Winding	Inductance per Winding	Thread Diameter	Thread Lead	Length	Stroke Length	Weight
	N	mm/s	A	µm/step	Ohm	mH	mm	mm	mm	mm	kg
LGA421S14-A-UKGI-019	152	80	1.4	31.75	2	2.8	6.35	6.35	33.4	19.05	0.24
LGA421S14-B-UKGI-019	152	80	1.4	31.75	2	2.8	6.35	6.35	33.4	19.05	0.24
LGA421S14-A-UKGI-038	152	80	1.4	31.75	2	2.8	6.35	6.35	33.4	38.1	0.25
LGA421S14-B-UKGI-038	152	80	1.4	31.75	2	2.8	6.35	6.35	33.4	38.1	0.25
LGA421L18-B-UKGI-025	275	80	1.8	31.75	1.75	3.4	6.35	6.35	47.4	25.4	0.34
LGA421L18-B-UKGI-063	275	80	1.8	31.75	1.75	3.4	6.35	6.35	47.4	63.5	0.39

配件 (ACCESSORIES)

ZK-JST-EHR-6-0.5M-S
电机线缆 0.5米(Motor Cable 0.5 m)

警告 (CAUTION)

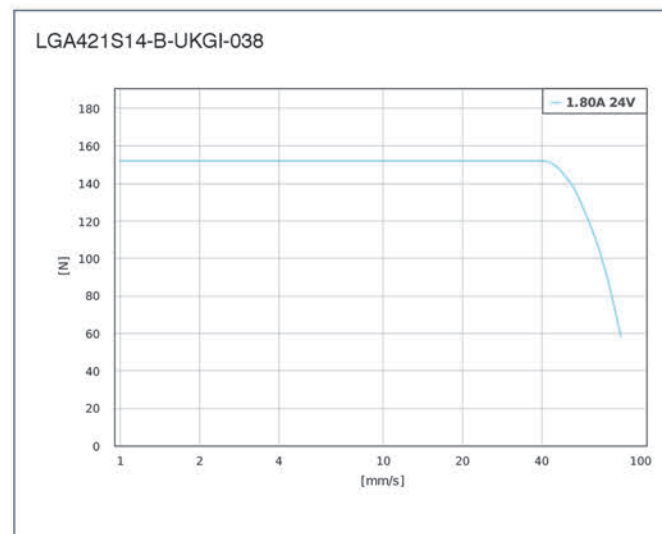
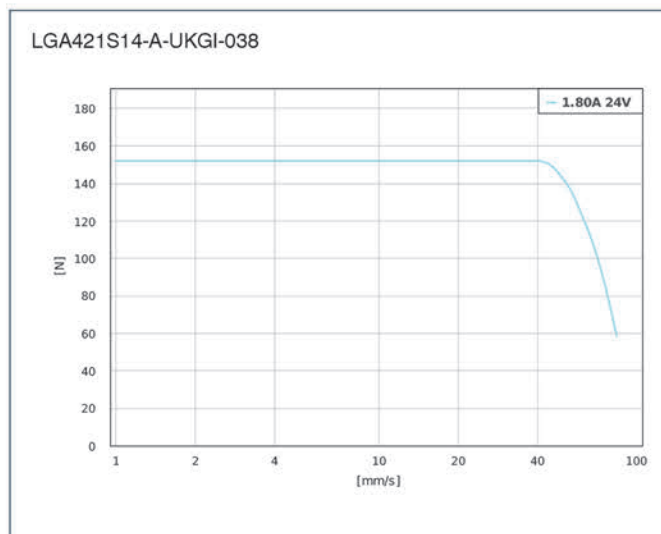
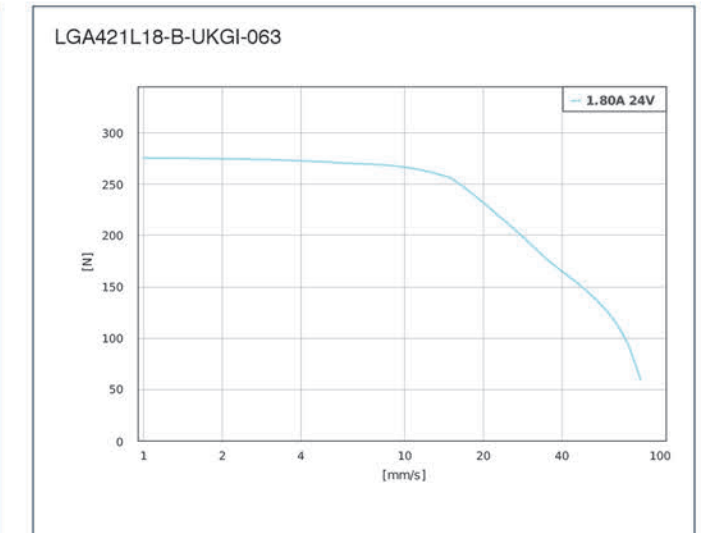
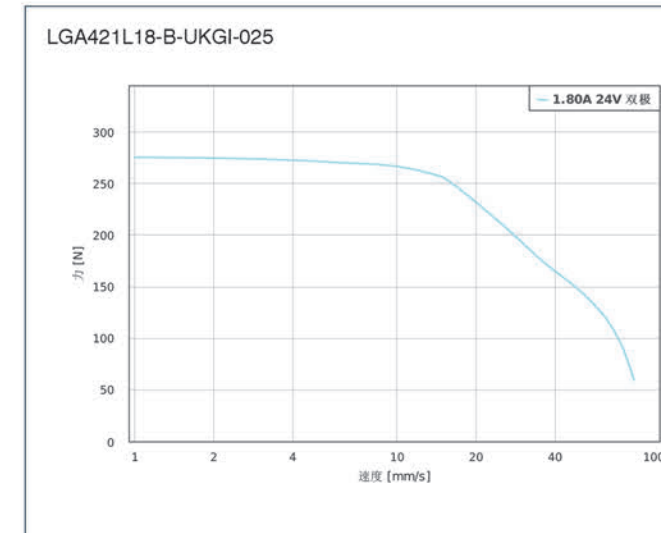
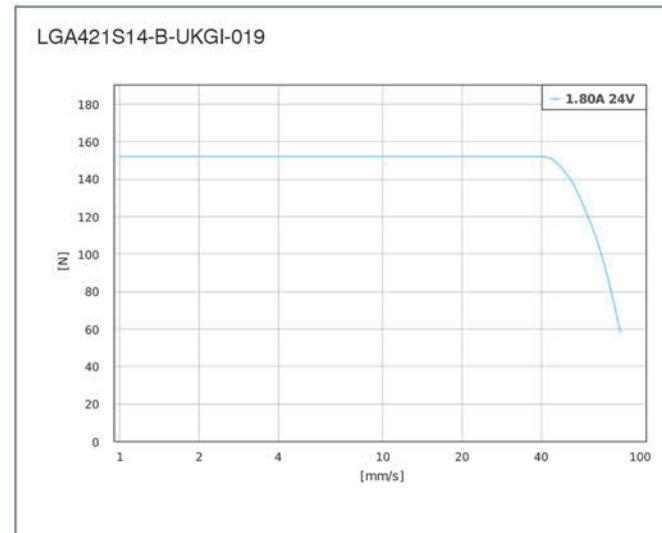
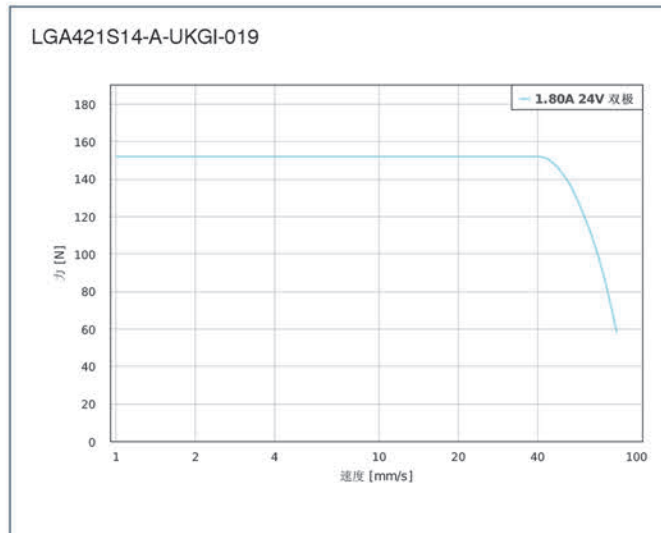
数据表中指定的力和额定功率基于 10%至 20% 的占空比，必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。

The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

速度推力曲线 (FORCE-VELOCITY CURVES)



该款电机可以根据客户需求定制。

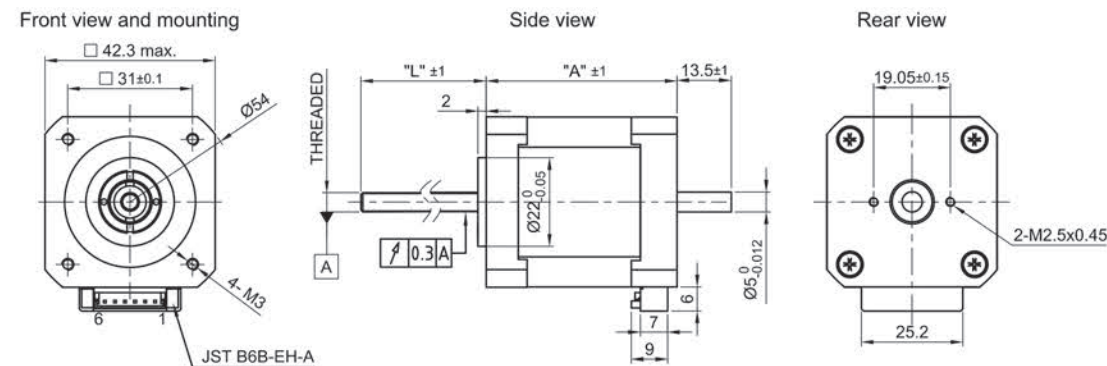
The motor can be designed & manufactured with customized request.



选件 Options



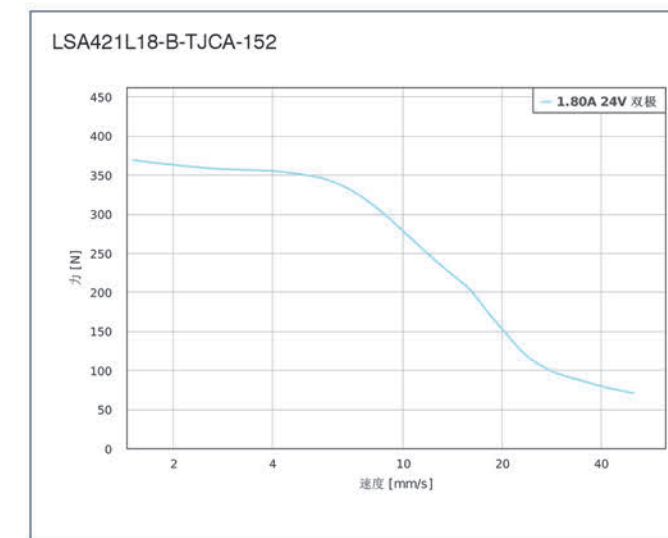
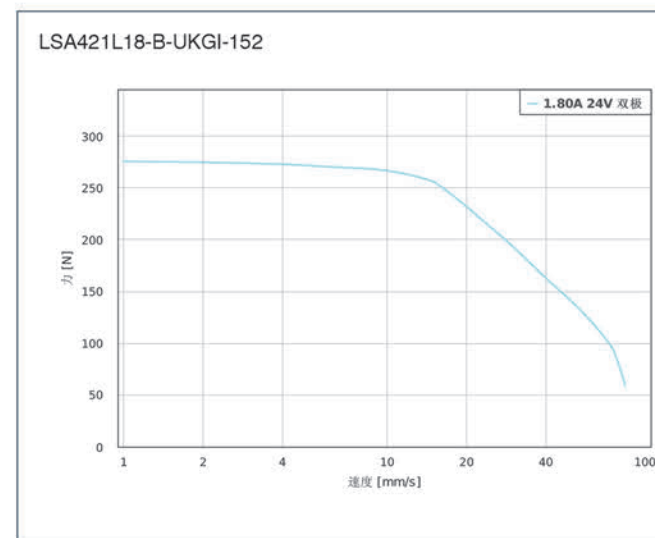
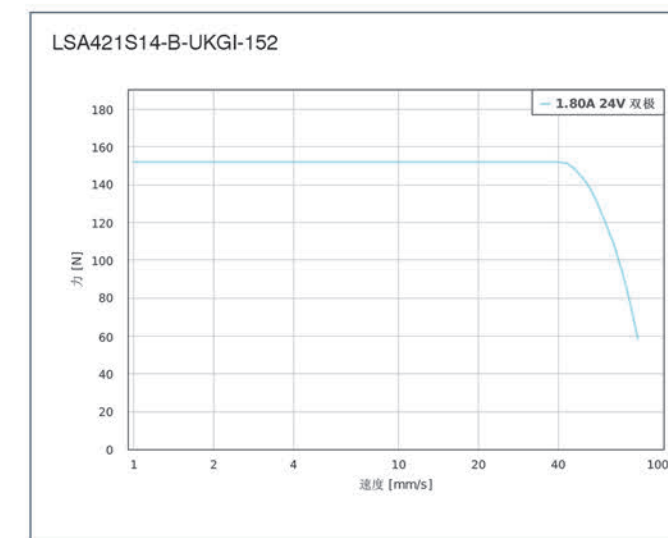
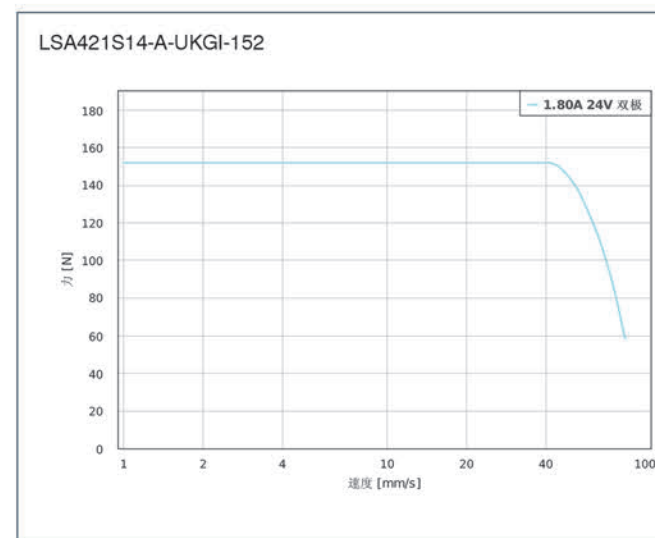
LSA421-B



型号 (VERSIONS)

型号 Type	推力 Force N	速度 Speed mm/s	相电流 Current per Winding A	分辨率 Resolution $\mu\text{m}/\text{step}$	相电阻 Resistance per Winding Ohm	相电感 Inductance per Winding mH	丝杆直径 Thread Diameter mm	导程 Thread Lead mm	丝杆长度 "L" Length "L" mm	机身长度 "A" Length "A" mm	重量 Weight Kg
LSA421S14-A-UKGI-152	152	80	1.4	31.75	2	2.8	6.35	6.35	152	33.4	0.26
LSA421S14-B-UKGI-152	152	80	1.4	31.75	2	2.8	6.35	6.35	152	33.4	0.26
LSA421L18-B-TJCA-152	369	50	1.8	10	1.75	3.25	6	2	152	47.4	0.4
LSA421L18-B-UKGI-152	275	80	1.8	31.75	1.75	3.4	6.35	6.35	152	47.4	0.4

速度推力曲线 (FORCE-VELOCITY CURVES)



配件 (ACCESSORIES)

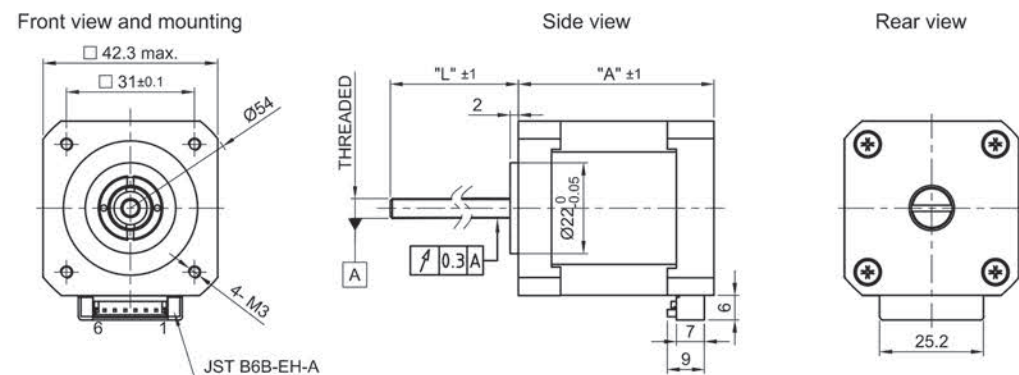
LSNUT-AAAE-TJCA 螺纹螺母(Threaded Nut) – POM
 LSNUT-AAAE-UKGI 螺纹螺母(Threaded Nut) – POM
 LSNUT-AEAE-TJCA 预装螺纹螺母(Loaded Threaded Nut) – POM
 LSNUT-AEAE-UKGI 预装螺纹螺母(Loaded Threaded Nut) – POM
 ZK-JST-EHR-6-0.5M-S 电机线缆 0.5米(Motor Cable 0.5 m)
 NANOLUBE-50G 润滑剂(Lubricant)

警告 (CAUTION)

数据表中指定的力和额定功率基于 10%至 20% 的占空比, 必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。
 The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

机械尺寸 (VERSIONS)

LSA421-A



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.



选件 Options



接插件

型号 (VERSIONS)

型号 Type	推力 Force	速度 Speed	相电流 Current per Winding	分辨率 Resolution	相电阻 Resistance per Winding	相电感 Inductance per Winding	丝杆直径 Thread Diameter	导程 Thread Lead	机身长度 Length "A"	重量 Weight
	N	mm/s	A	μm/步	Ohm	mH	mm	mm	mm	kg
LA561S20-A-TSCA	800	50	2.0	10	1.6	3.5	10.0	2	50.3	0.65
LA561S20-B-TSCA	800	50	2.0	10	1.6	3.5	10.0	2	50.3	0.65
LA561S20-A-TSGA	500	130	2.0	30	1.6	3.5	10.0	6	50.3	0.65
LA561S20-B-TSGA	500	130	2.0	30	1.6	3.5	10.0	6	50.3	0.65
LA561S20-A-UQBG	1000	40	2.0	6.35	1.6	3.5	9.525	1.27	50.3	0.65
LA561S20-B-UQBG	1000	40	2.0	6.35	1.6	3.5	9.525	1.27	50.3	0.65
LA561S20-A-UQCN	750	65	2.0	12.7	1.6	3.5	9.525	2.54	50.3	0.65
LA561S20-B-UQCN	750	65	2.0	12.7	1.6	3.5	9.525	2.54	50.3	0.65
LA561L42-A-TSCA	1000	60	4.2	10	0.54	2.4	10.0	2	77.3	1.0
LA561L42-B-TSCA	1000	60	4.2	10	0.54	2.4	10.0	2	77.3	1.0
LA561L42-A-TSGA	700	150	4.2	30	0.54	2.4	10.0	6	77.3	1.0
LA561L42-B-TSGA	700	150	4.2	30	0.54	2.4	10.0	6	77.3	1.0
LA561L42-A-UQBG	1200	45	4.2	6.35	0.54	2.4	9.525	1.27	77.3	1.0
LA561L42-B-UQBG	1200	45	4.2	6.35	0.54	2.4	9.525	1.27	77.3	1.0
LA561L42-A-UQCN	1100	60	4.2	12.7	0.54	2.4	9.525	2.54	77.3	1.0
LA561L42-B-UQCN	1100	60	4.2	12.7	0.54	2.4	9.525	2.54	77.3	1.0

配件 (ACCESSORIES)

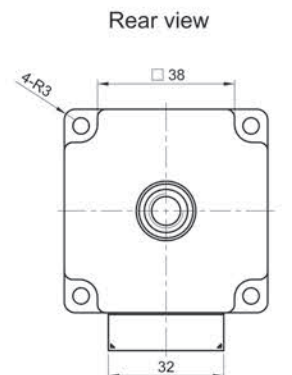
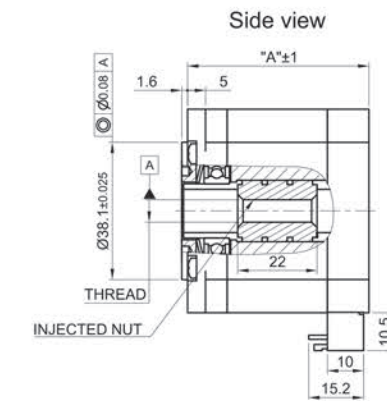
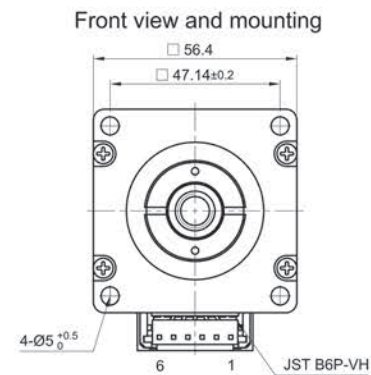
- SCREW-ABA-TSCA-200
带梯形螺纹的丝杆Lead Screw with Trapezoidal Thread
- SCREW-ABA-TSCA-300
带梯形螺纹的丝杆Lead Screw with Trapezoidal Thread
- SCREW-AAA-TSCA-1000
带梯形螺纹的丝杆Lead Screw with Trapezoidal Thread
- SCREW-ABA-UQBG-200
带 ACME 螺纹的丝杆Lead Screw with ACME Thread
- SCREW-ABA-UQBG-300
带 ACME 螺纹的丝杆Lead Screw with ACME Thread
- SCREW-AAA-UQBG-1000
带 ACME 螺纹的丝杆Lead Screw with ACME Thread
- ZK-JST-VHR-6N-0.5M-S
电机线缆 0.5米Motor Cable 0.5 m
- NANOLUBE-50G 润滑剂Lubricant

警告 (CAUTION)

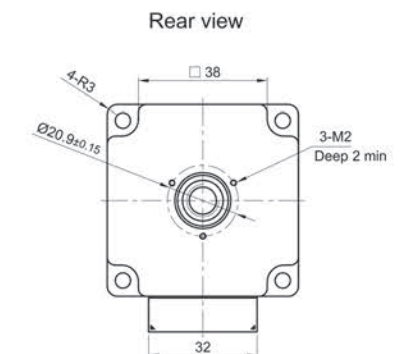
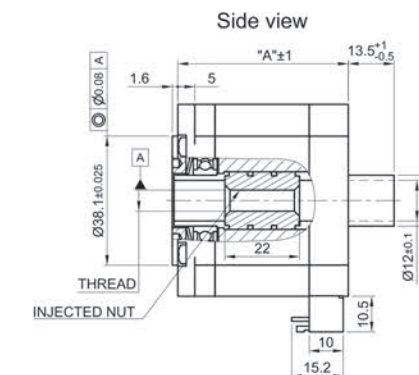
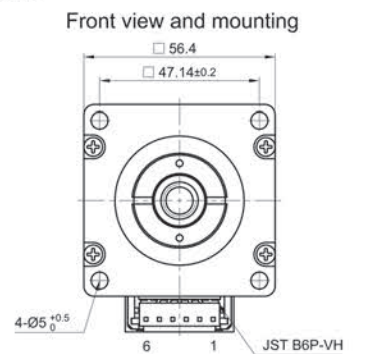
数据表中指定的力和额定功率基于 10%至 20% 的占空比, 必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。
The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

机械尺寸 (VERSIONS)

LA561-A

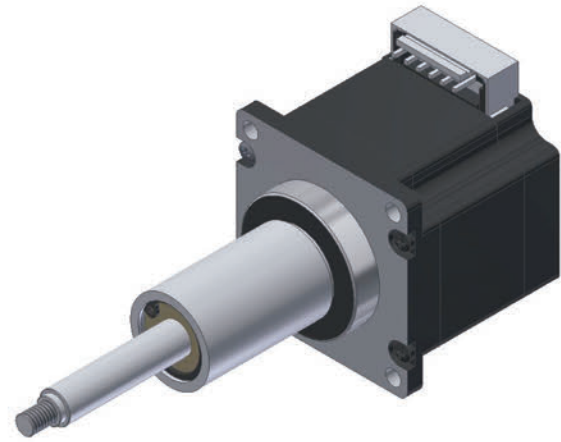


LA561-B



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.



选件 Options



接插件

型号 (VERSIONS)

型号 Type	推力 Force	速度 Speed	相电流 Current per Winding	分辨率 Resolution	相电阻 Resistance per Winding	相电感 Inductance per Winding	丝杆直径 Thread Diameter	导程 Thread Lead	机身长度 "A" "B" Length "A", "B"	行程长度 "X" Stroke Length	重量 Weight
	N	mm/s	A	μm/步	Ohm	mH	mm	mm	mm	mm	kg
LGA561S20-A-TSCA-019	800	50	2.0	10	1.6	3.5	10	2	50.3/31.15	19.05	0.80
LGA561S20-B-TSCA-019	800	50	2.0	10	1.6	3.5	10	2	50.3/31.15	19.05	0.80
LGA561S20-A-TSCA-038	800	50	2.0	10	1.6	3.5	10	2	50.3/50.2	38.1	0.85
LGA561S20-B-TSCA-038	800	50	2.0	10	1.6	3.5	10	2	50.3/50.2	38.1	0.85
LGA561L42-B-UQBG-025	1200	45	4.2	6.35	0.54	2.4	9.525	1.27	77.3/37.1	25.4	1.20
LGA561L42-B-UQBG-063	1200	45	4.2	6.35	0.54	2.4	9.525	1.27	77.3/75.6	63.5	1.35
LGA561L42-B-UQCN-025	1100	60	4.2	12.7	0.54	2.4	9.525	2.54	77.3/37.1	25.4	1.20
LGA561L42-B-UQCN-063	1100	60	4.2	12.7	0.54	2.4	9.525	2.54	77.3/75.6	63.5	1.35

配件 (ACCESSORIES)

ZK-JST-VHR-6N-0.5M-S 电机线缆 0.5米
ZK-JST-VHR-6N-0.5M-S
Motor Cable 0.5 m

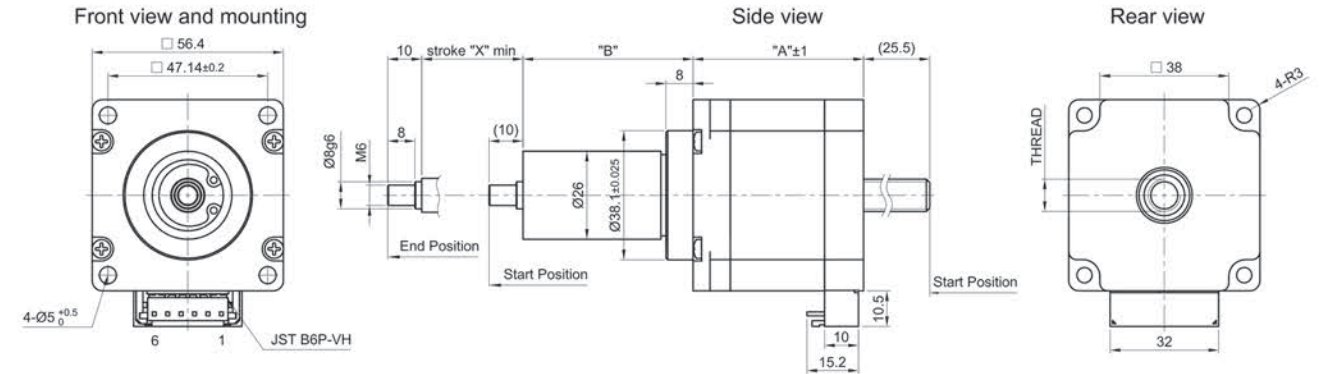
警告 (CAUTION)

数据表中指定的力和额定功率基于 10%至 20% 的占空比，必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。

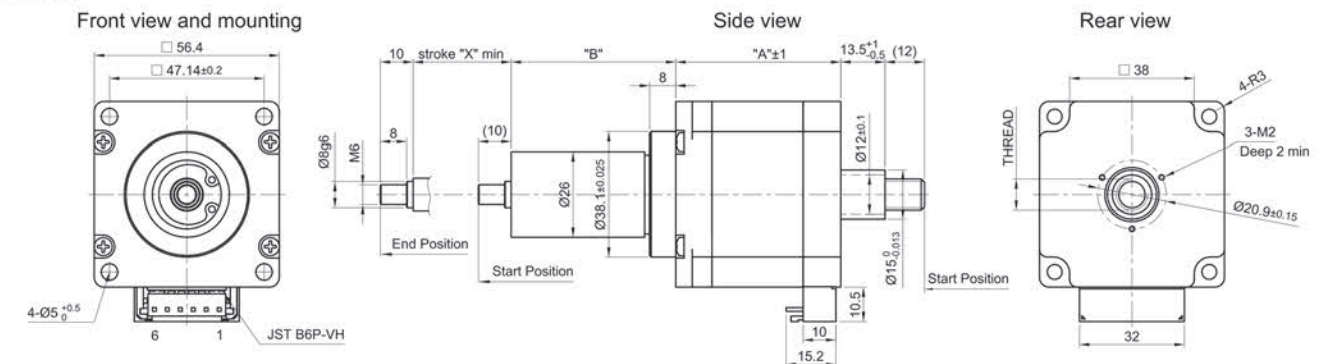
The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

机械尺寸 (VERSIONS)

LGA56-A



LGA561-B



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

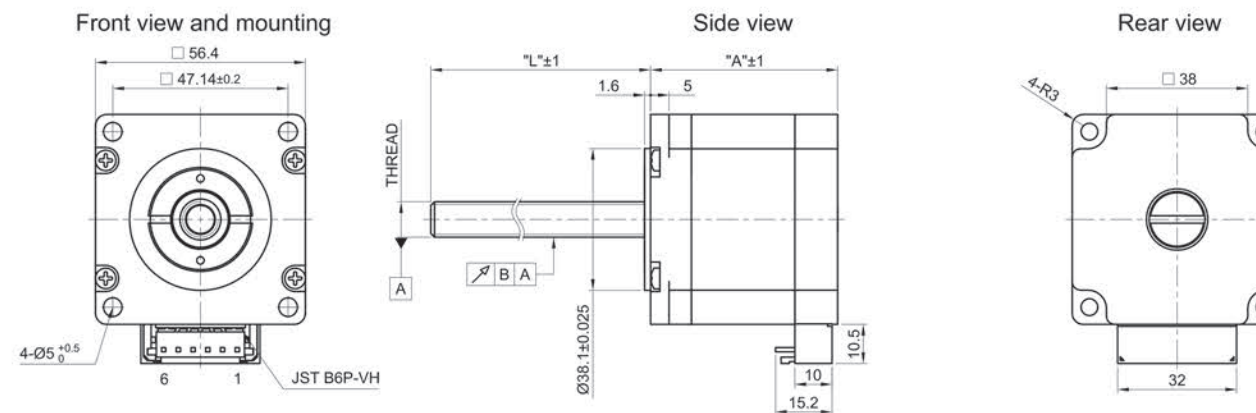


选件 Options

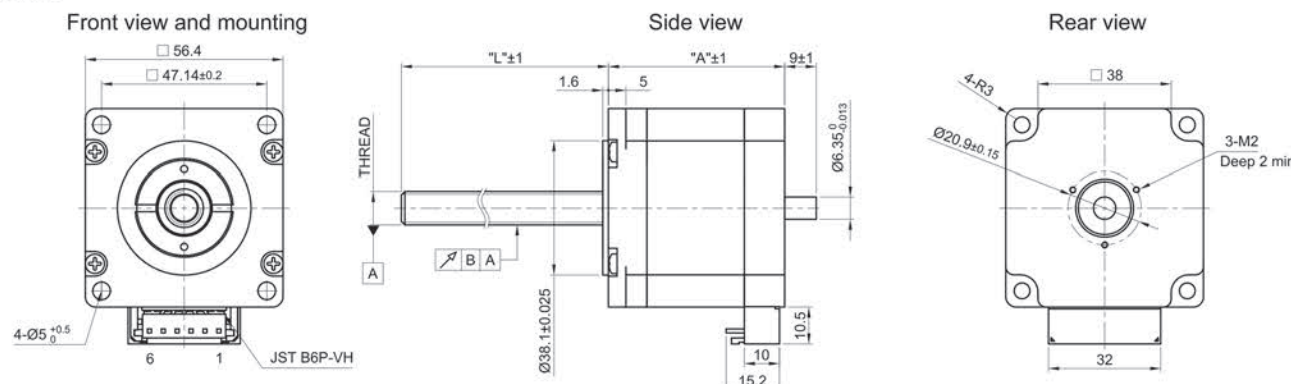


机械尺寸 (VERSIONS)

LSA561-A



LSA561-B



型号 (VERSIONS)

型号 (TYPE)	推力	速度	相电流	分辨率	相电阻	相电感	丝杆直径	导程	丝杆长度 "L"	机身长度 "A"	重量
	Force N	Speed mm/s	Current per Winding A	Resolution µm/步	Resistance per Winding Ohm	Inductance per Winding mH	Thread Diameter mm	Thread Lead mm	Screw Length mm	Length mm	Weight kg
LSA561S20-A-TSCA-152	800	50	2	10	1.6	3.5	10	2	152	50.3	0.82
LSA561S20-B-TSCA-152	800	50	2	10	1.6	3.5	10	2	152	50.3	0.82
LSA561S20-A-TSGA-152	500	130	2	30	1.6	3.5	10	6	152	50.3	0.82
LSA561S20-B-TSGA-152	500	130	2	30	1.6	3.5	10	6	152	50.3	0.82
LSA561S20-A-UQBG-152	1000	40	2	6.35	1.6	3.5	9.525	1.27	152	50.3	0.82
LSA561S20-B-UQBG-152	1000	40	2	6.35	1.6	3.5	9.525	1.27	152	50.3	0.82
LSA561S20-A-UQCN-152	750	65	2	12.7	1.6	3.5	9.525	2.54	152	50.3	0.82
LSA561S20-B-UQCN-152	750	65	2	12.7	1.6	3.5	9.525	2.54	152	50.3	0.82

配件 (ACCESSORIES)

- LSNUT-AAAG-TSCA 螺纹螺母 – POM
- Threaded Nut – POM
- LSNUT-AAAG-UQBG 螺纹螺母 – POM
- Threaded Nut – POM
- LSNUT-AEAG-TSCA 预装螺纹螺母 – POM
- Loaded Threaded Nut - POM
- LSNUT-AEAG-UQBG 预装螺纹螺母 – POM
- Loaded Threaded Nut - POM
- ZK-JST-VHR-6N-0.5M-S
- 电机线缆 0.5米
- Motor Cable 0.5 m
- NANOLUBE-50G 润滑剂
- NANOLUBE-50G Lubricant

警告 (CAUTION)

数据表中指定的力和额定功率基于 10%至 20% 的占空比, 必须将其相应降低才能获得更大的值。应避免运行至固定的限位挡块。
The force and power ratings specified in the data sheets are based on a duty cycle of 10% to 20% and must be reduced for higher values. Moving against fixed end stops should be avoided.

该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)



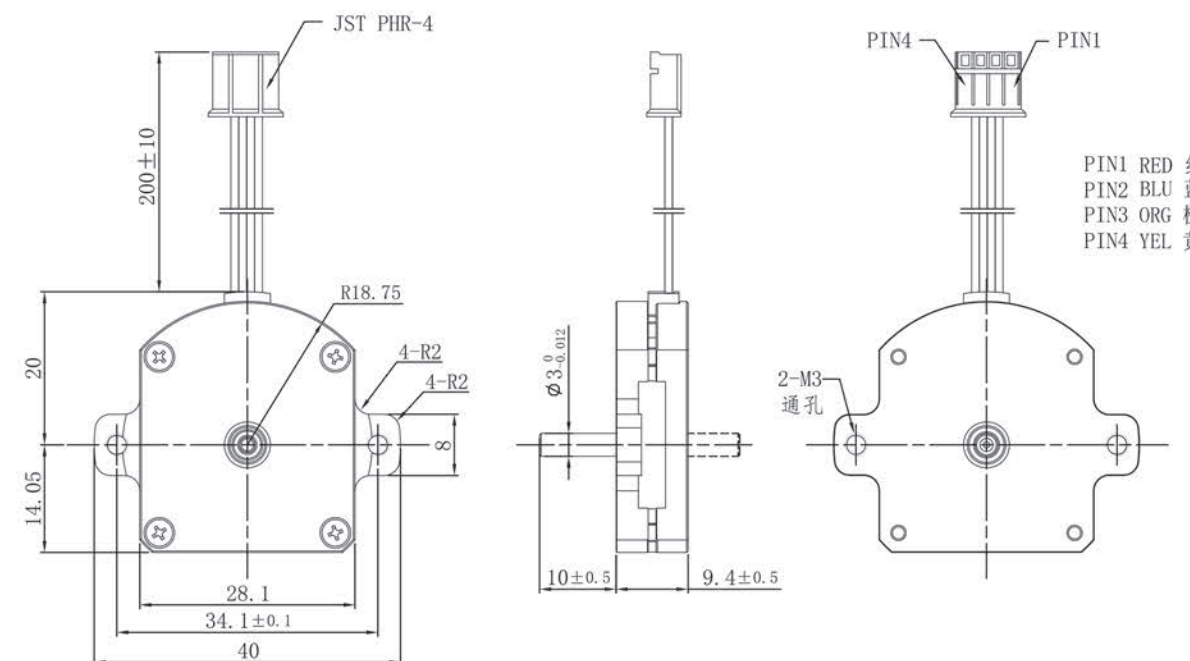
选件 Options
接插件 Connector

项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@400 g
轴向间隙 (Axial Play)	0.08mm@400 g
最大径向负载 (Max. radial force)	10N 距法兰 5mm (5mm from the flange)
最大轴向负载 (Max. axial force)	2N
介电强度 (Dielectric Strength)	600VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

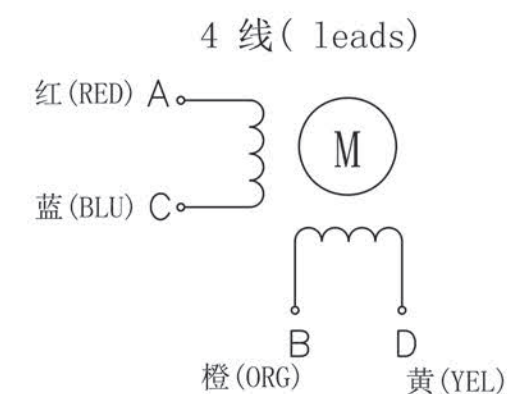
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL28ST10-0504A	0.5	3.7	0.88	0.01	0.001	4	1.7	0.028	9.4

机械尺寸 (Dimension)



接线图 (Wiring Diagram)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)



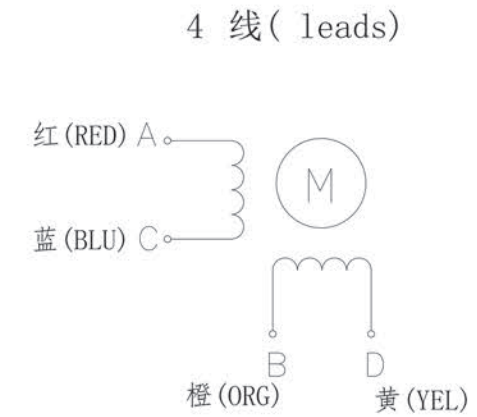
选件 Options



接插件

项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	10N 距法兰 20mm (20mm from the flange)
最大轴向负载 (Max. axial force)	2N
介电强度 (Dielectric Strength)	600VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

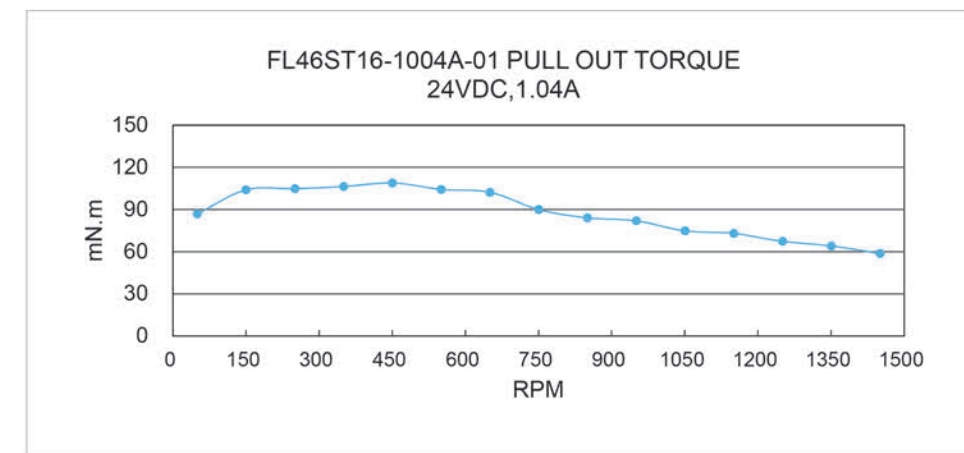
接线图 (Wiring Diagram)



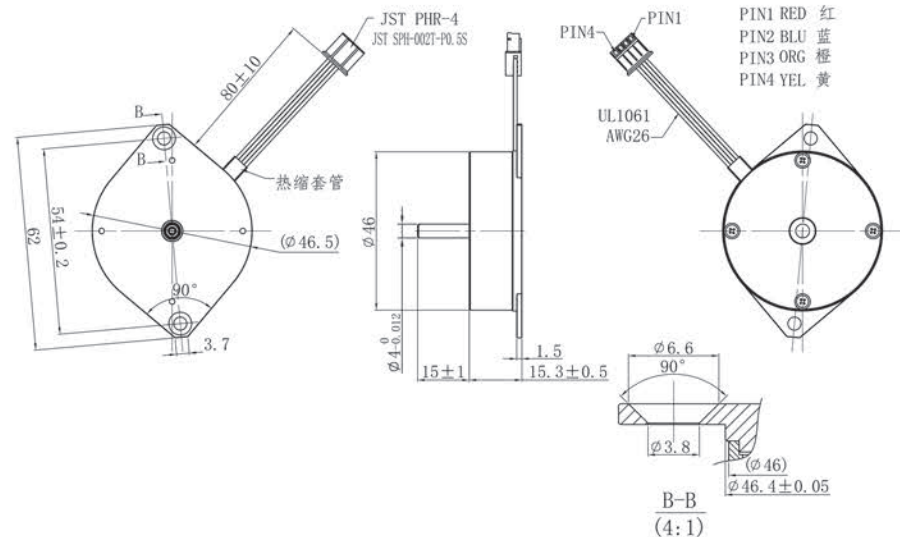
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL46ST16-1004A-01	1.0	3.2	2.5	0.08	0.006	4	11	0.1	15.3

矩频曲线 (Pull out torque curve)



机械尺寸 (Dimension)



该款电机可以根据客户需求定制。

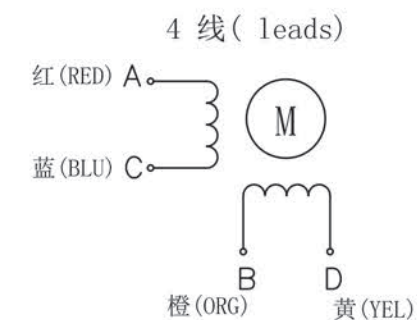
The motor can be designed & manufactured with customized request.

特性概要 (General specification)



项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@400 g
轴向间隙 (Axial Play)	0.08mm@400 g
最大径向负载 (Max. radial force)	10N 距法兰 5mm (5mm from the flange)
最大轴向负载 (Max. axial force)	2N
介电强度 (Dielectric Strength)	600VAC / 1S
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

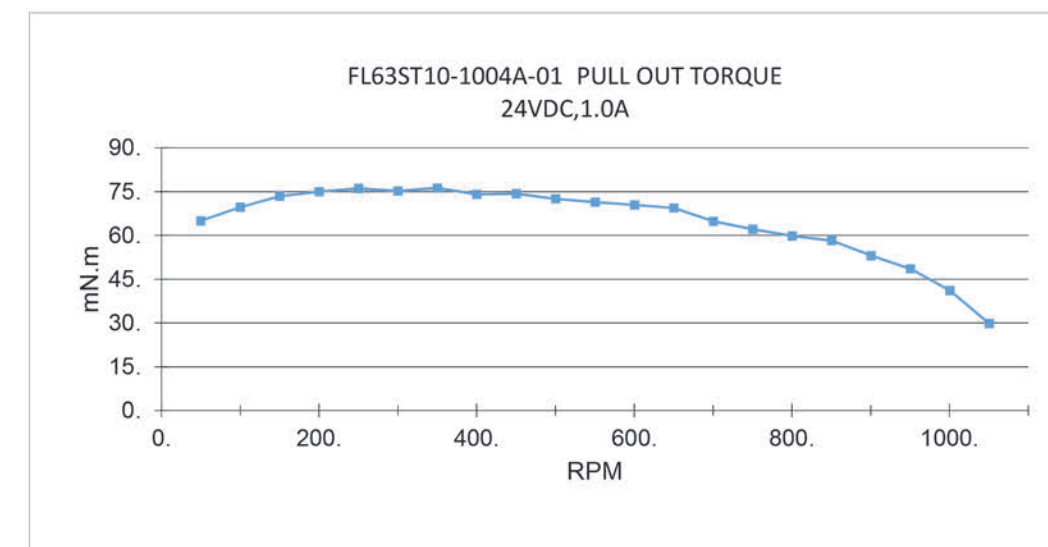
接线图 (Wiring Diagram)



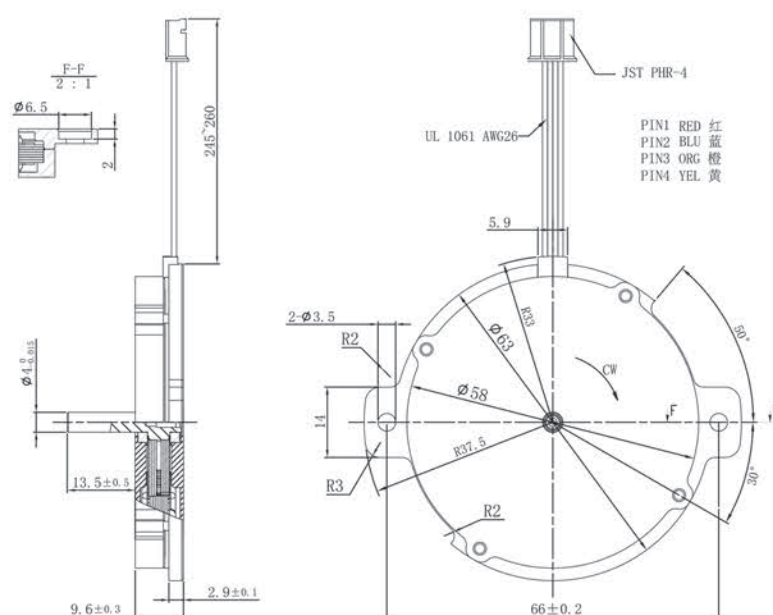
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出线数	Rotor Inertia 转动惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL63ST10-1004A-01	1.0	3.8	2.0	0.06	0.005	4	16	0.095	9.6

矩频曲线 (Pull out torque curve)



机械尺寸 (Dimension)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

特性概要 (General specification)

选件 Options

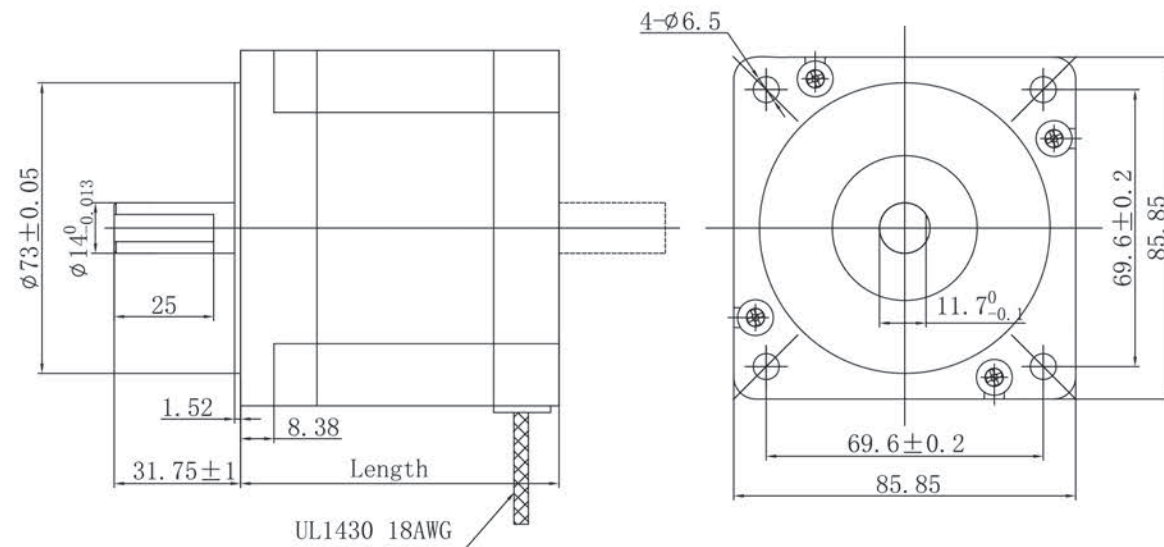


项目 (Item)	说明 (Specifications)
步距角 (Step Angle)	1.8°
步距角精度 (Step Angle Accuracy)	±5% (整步无负载, full step, no load)
径向间隙 (Radial Play)	0.02mm@450 g
轴向间隙 (Axial Play)	0.08mm@450 g
最大径向负载 (Max. radial force)	130N 距法兰 20mm 130N @ 20mm from the flange
最大轴向负载 (Max. axial force)	36N
介电强度 (Dielectric Strength)	1200VAC / 1s
绝缘电阻 (Insulation Resistance)	100MΩ ,500VDC
环境温度 (Ambient Temperature)	-20· C~+50· C
绝缘等级 (Insulation Class)	Class B

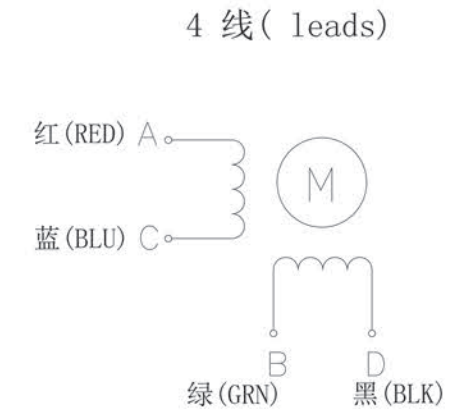
电性能 (Electrical specifications)

型号 (Model No.)	Current /Phase 每相 电流	Resistance /Phase 每相 电阻	Inductance /Phase 每相 电感	Holding Torque 保持 转矩	Detent Torque 定位 转矩	# of Leads 引出 线数	Rotor Inertia 转动 惯量	Weight 重量	Length 机身 长度
Single shaft (单出轴)	A	Ω	mH	N.m	N.m	#	g·cm ²	kg	mm
FL86STH65-6004AC	6	0.29	1.77	3.5	0.08	4	1000	1.7	63
FL86STH80-6004AC	6	0.39	3	4.5	0.12	4	1400	2.3	75
FL86STH118-6004AC	6	0.55	6	8.5	0.24	4	2700	3.8	112
FL86STH156-6004AC	6	0.73	8.68	12	0.36	4	4000	5.3	150

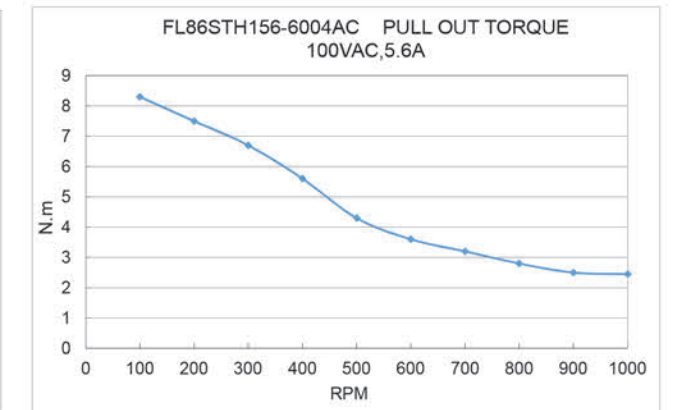
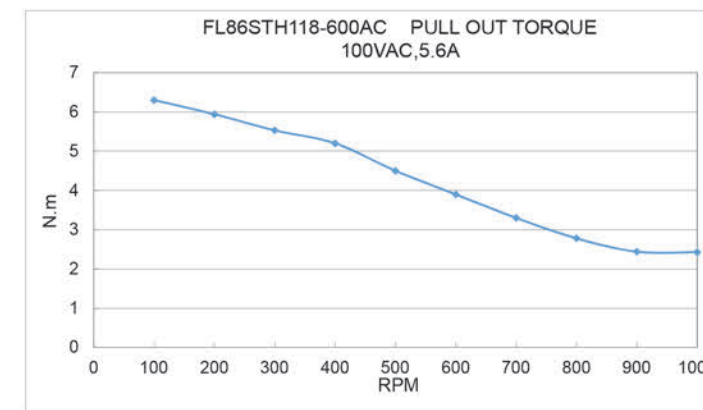
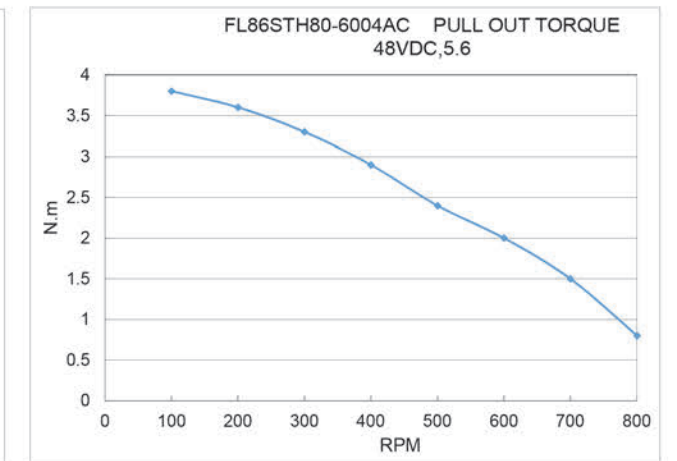
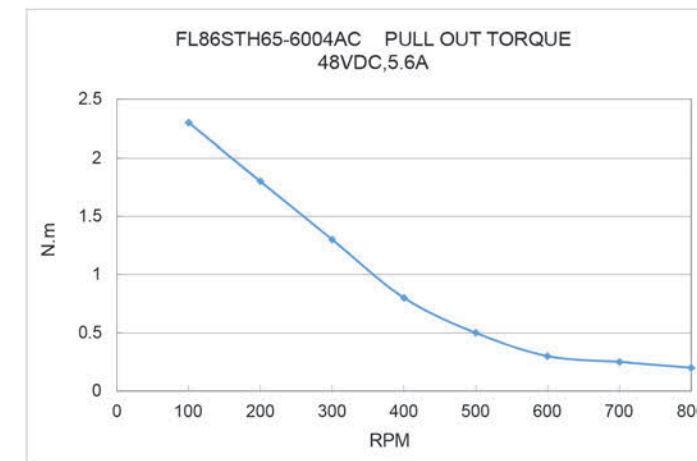
机械尺寸 (Dimension)



接线图 (Wiring Diagram)



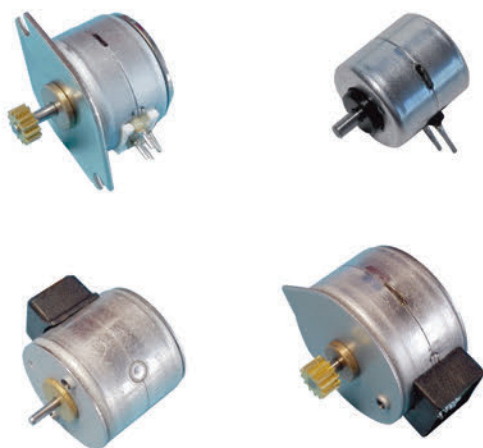
矩频曲线 (Pull out torque curve)



该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

■ 特性概要 (General specification)

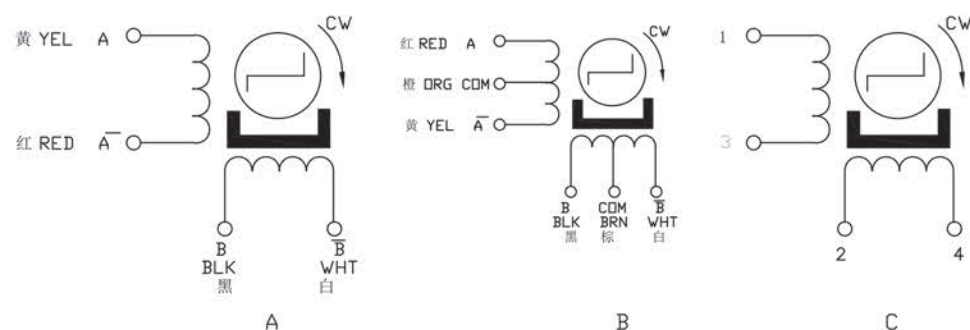


Item	Specifications
步距角精度 Step Angle Accuracy	±8% (整步空载 full step, no load)
电阻公差 Resistance Accuracy	±10%
电感公差 Inductance Accuracy	±20%
温升 Temperature Rise	80· C Max.(额定电流, 2 相通电 rated current, 2 phase on)
环境温度 Ambient Temperature	-20°C+50°C
绝缘电阻 Insulation Resistance	100MΩMin. ,500VDC
介电强度 Dielectric Strength	500VAC/1s
径向间隙 Shaft Radial Play	0.06Max. (450 g-load)
轴向间隙 Shaft Axial Play	0.08Max. (450 g-load)

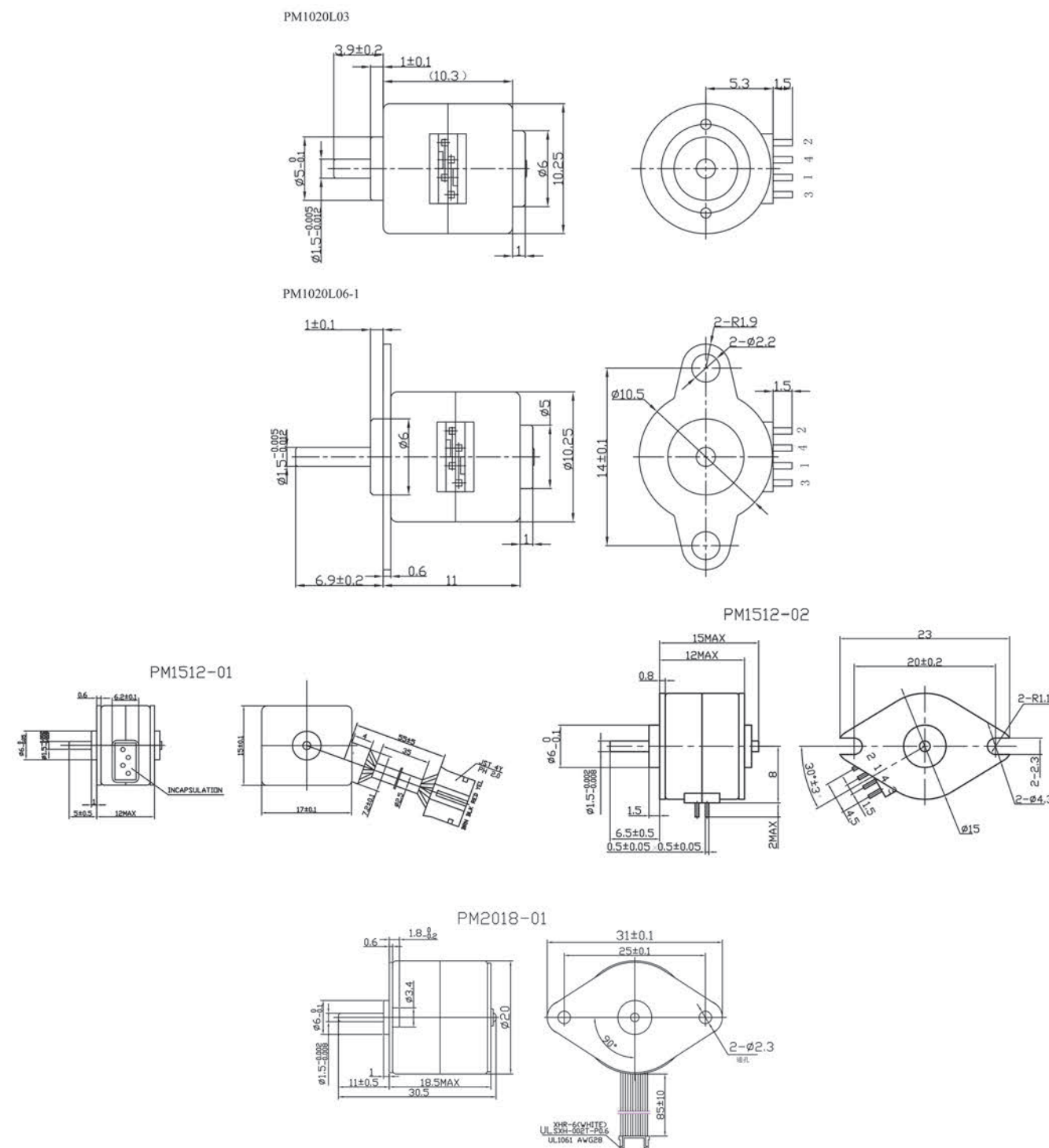
■ 电性能 (Electrical specifications)

型号 Model	步距角 Step Angle (Deg.)	相数 No. of Phase	电压 Voltage (V)	相电流 Current /Phase (A)	相电阻 Resistance /Phase (ohms)	保持力矩 Holding Torque (g.cm)	定位力矩 Detent Torque (g.cm)	转子惯量 Rotor Inertia (g.cm ²)	接线图 Wire Diagram
PM1020L03	18	2	3.3	0.22	15	16.3	10	<1	A
PM1020L06-1	18	2	3.3	0.22	15	16.3	10		A
PM1512-01	18	2	12	0.04	300	40	10		c
PM1512-02	18	2	5	0.5	10	27	6		B
PM2018-01	18	4	12	0.24	50	80	25		A
PM2018-02	18	2	5	0.5	10	60	20		B
PM2515-01	7.5	2	12	0.24	50	170	45		A
PM2515-02	7.5	4	12	0.25	50	160	35		B

■ 接线图 (WIRING DIAGRAM)



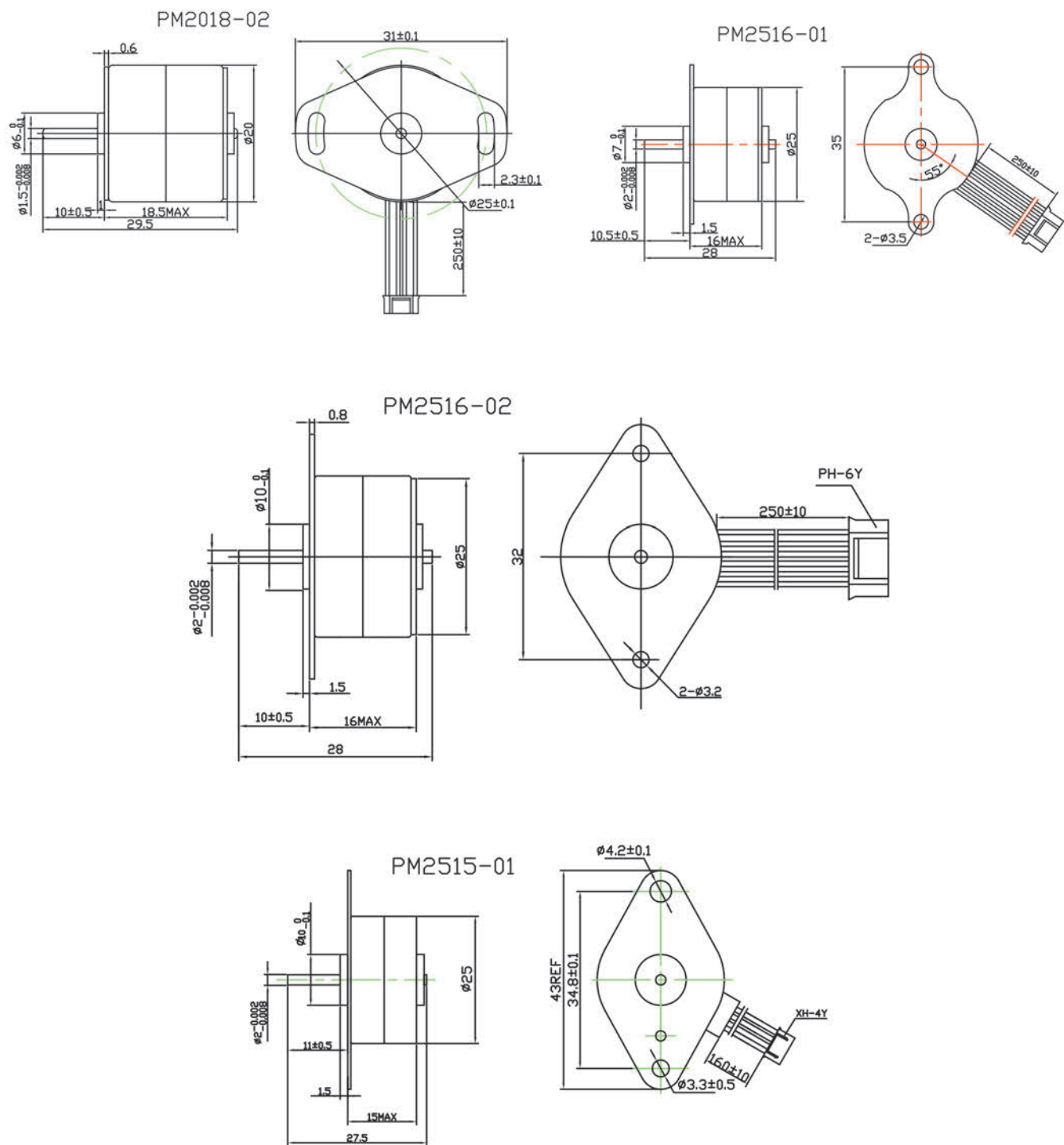
■ 机械尺寸图 (Dimensions)



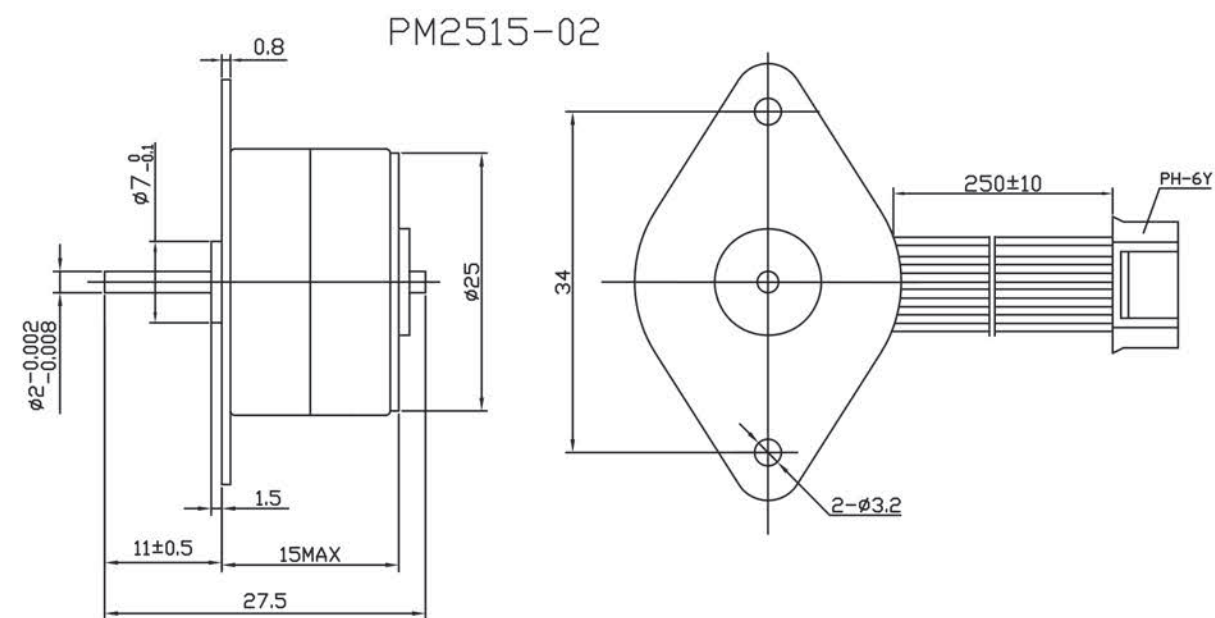
该款电机可以根据客户需求定制。

The motor can be designed & manufactured with customized request.

机械尺寸图 (Dimensions)



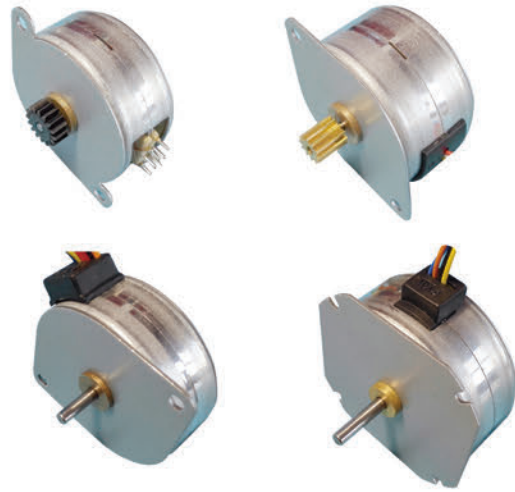
机械尺寸图 (Dimensions)



该款电机可以根据客户需求定制。

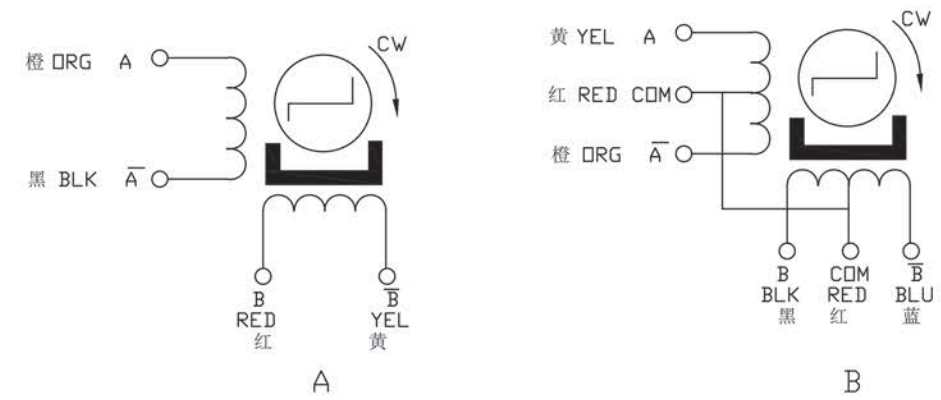
The motor can be designed & manufactured with customized request.

特性概要 (General specification)

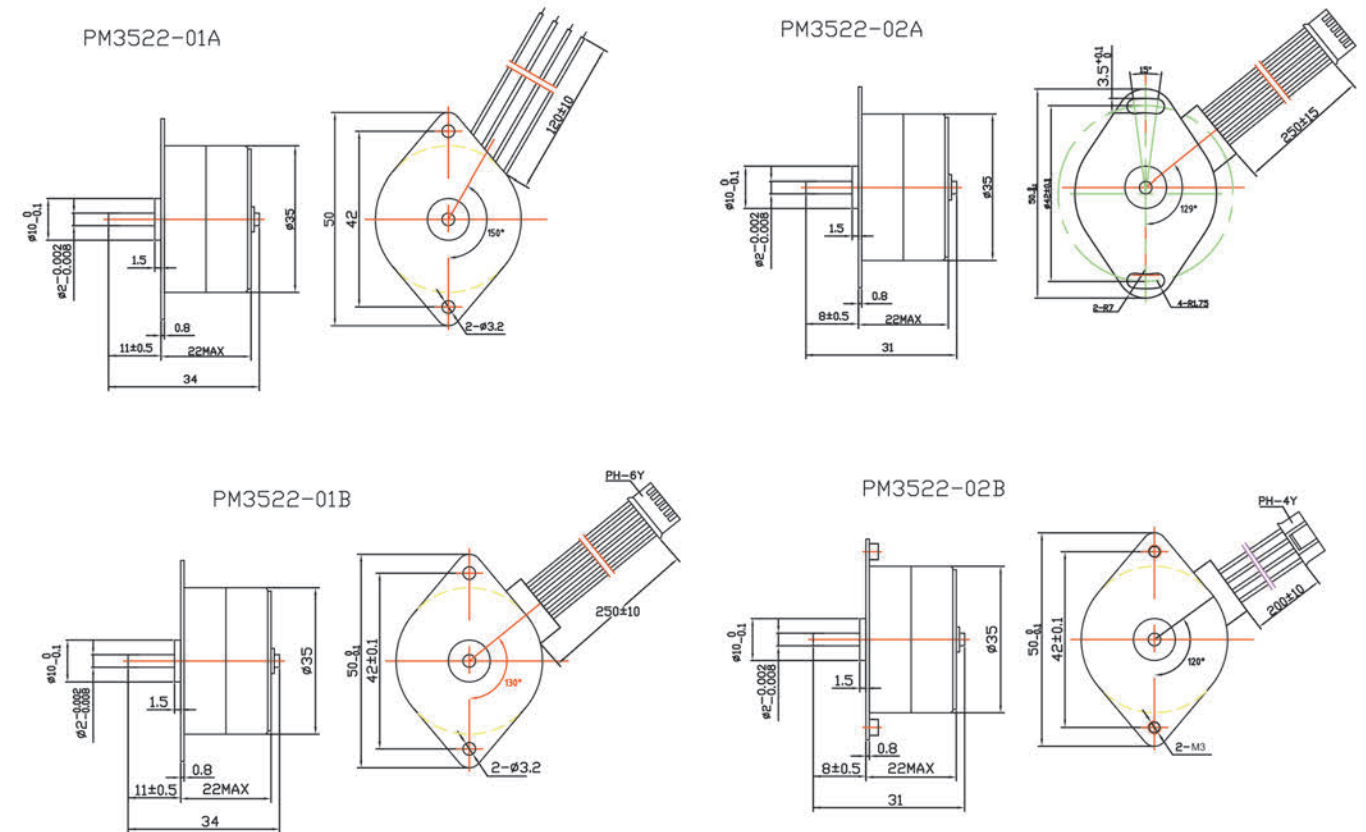


Item	Specifications
步距角精度 Step Angle Accuracy	±8% (整步空载 full step, no load)
电阻公差 Resistance Accuracy	±10%
电感公差 Inductance Accuracy	±20%
温升 Temperature Rise	80- C Max.(额定电流, 2 相通电 rated current, 2 phase on)
环境温度 Ambient Temperature	-20°C+50°C
绝缘电阻 Insulation Resistance	100MΩMin. ,500VDC
介电强度 Dielectric Strength	500VAC/1s
径向间隙 Shaft Radial Play	0.06Max. (450 g-load)
轴向间隙 Shaft Axial Play	0.08Max. (450 g-load)

接线图 (WIRING DIAGRAM)



机械尺寸图 (Dimensions)



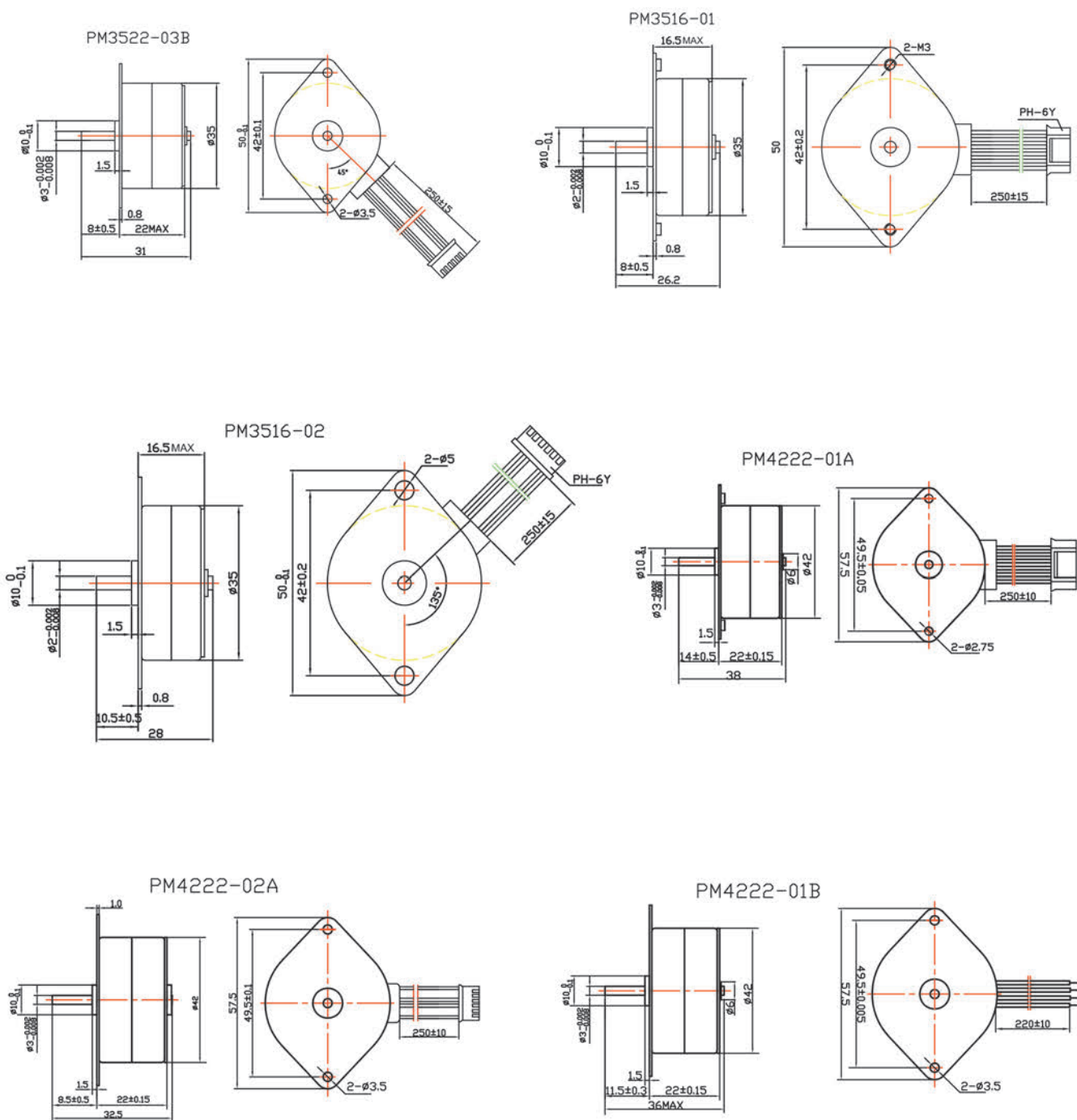
电性能 (Electrical specifications)

型号 Model	步距角 Step Angle (Deg.)	相数 No. of Phase	电压 Voltage (V)	相电流 Current /Phase (A)	相电阻 Resistance /Phase (ohms)	保持力矩 Holding Torque (g.cm)	定位力矩 Detent Torque (g.cm)	转子惯量 Rotor Inertia (g.cm ²)	接线图 Wire Diagram
PM3522-01A	15	2	5	0.46	11	335	125	7.5	A
PM3522-02A	15	4	5	0.46	11	300			B
PM3522-01B	7.5	4	5	0.862	5.8	550			A
PM3522-02B	7.5	2	5	0.5	10	550			A
PM3522-03B	7.5	2	12	0.2	608				
PM3516-01	7.5	4	12	0.255	47	300	65		B
PM3516-02	7.5	2	5	0.42	12	350	75		A
PM4222-01A	7.5	4	12	0.8	15	800	210	9.6	B
PM4222-02A	7.5	2	4.2	0.6	7	800	210		A
PM4222-01B	7.5	2	12	0.13	95	550	100	7.5	
PM4222-02B	7.5	4	5	0.81	6.2	600	110		B
PM4217-01	7.5	4	12	0.24	50	600	90	9.6	
PM4217-02	7.5	2	5	0.59	8.6	500	100		A
PM4930-01	7.5	2	5	0.9	5.5	1700	350	<14.5	
PM5725-01	7.5	4	12	0.6	21	1500	425	<12.5	B
PM5725-02	7.5	2	5.6	0.625	9	1200			A

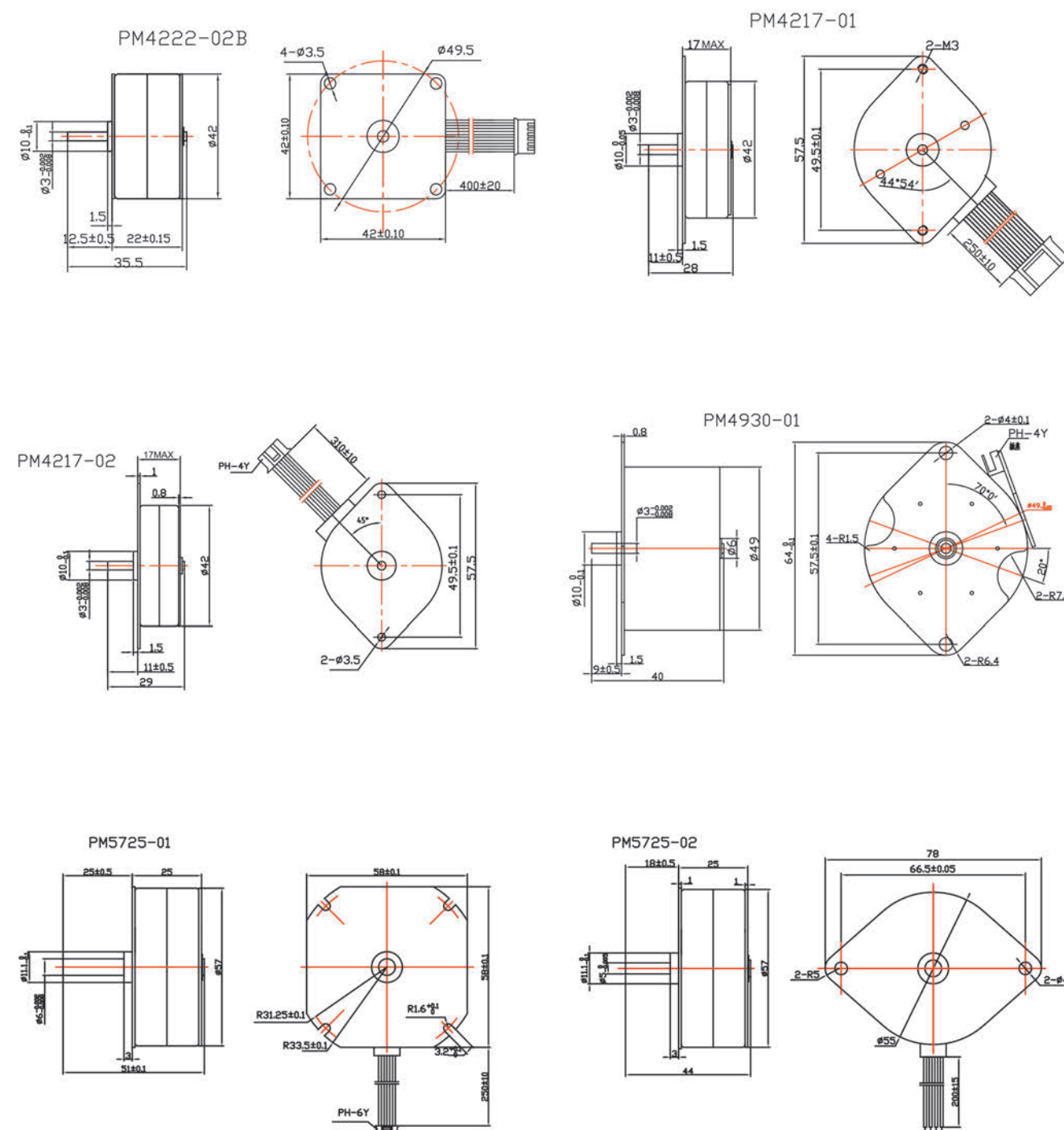
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机械尺寸图 (Dimensions)



机械尺寸图 (Dimensions)



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特性概要 (General specification)

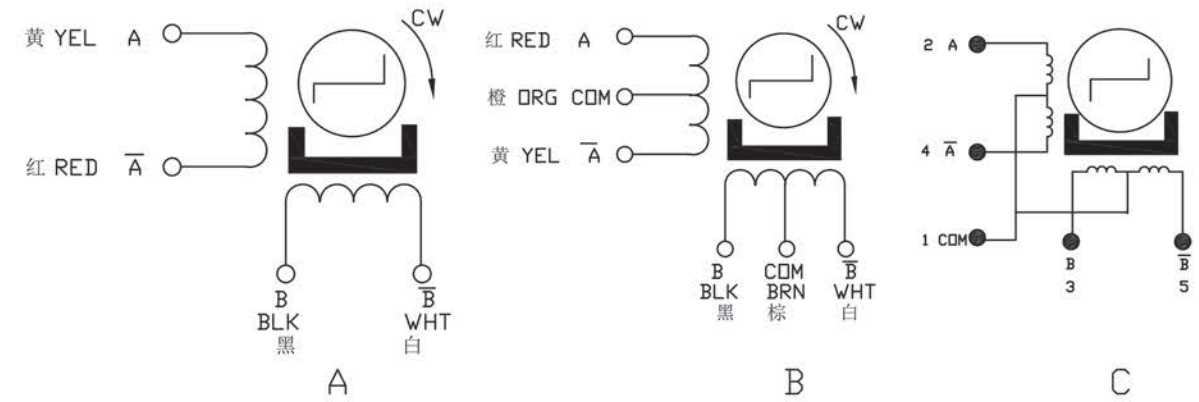


Item	Specifications
步距角精度 Step Angle Accuracy	±7% (整步, 空载 full step, no load)
电阻公差 Resistance Accuracy	±10%
电感公差 Inductance Accuracy	±20%
温升 Temperature Rise	80K Max. ambient temperature 40°C 80K 环境温度 40°C
环境温度 Ambient Temperature	-10°C~+50°C
绝缘电阻 Insulation Resistance	100MΩMin., 500VDC
绝缘等级 Insulation Class	Class E
介电强度 Dielectric Strength	650VAC for one second, leakage current 1mA 650VAC 一秒, 漏电电流 1mA

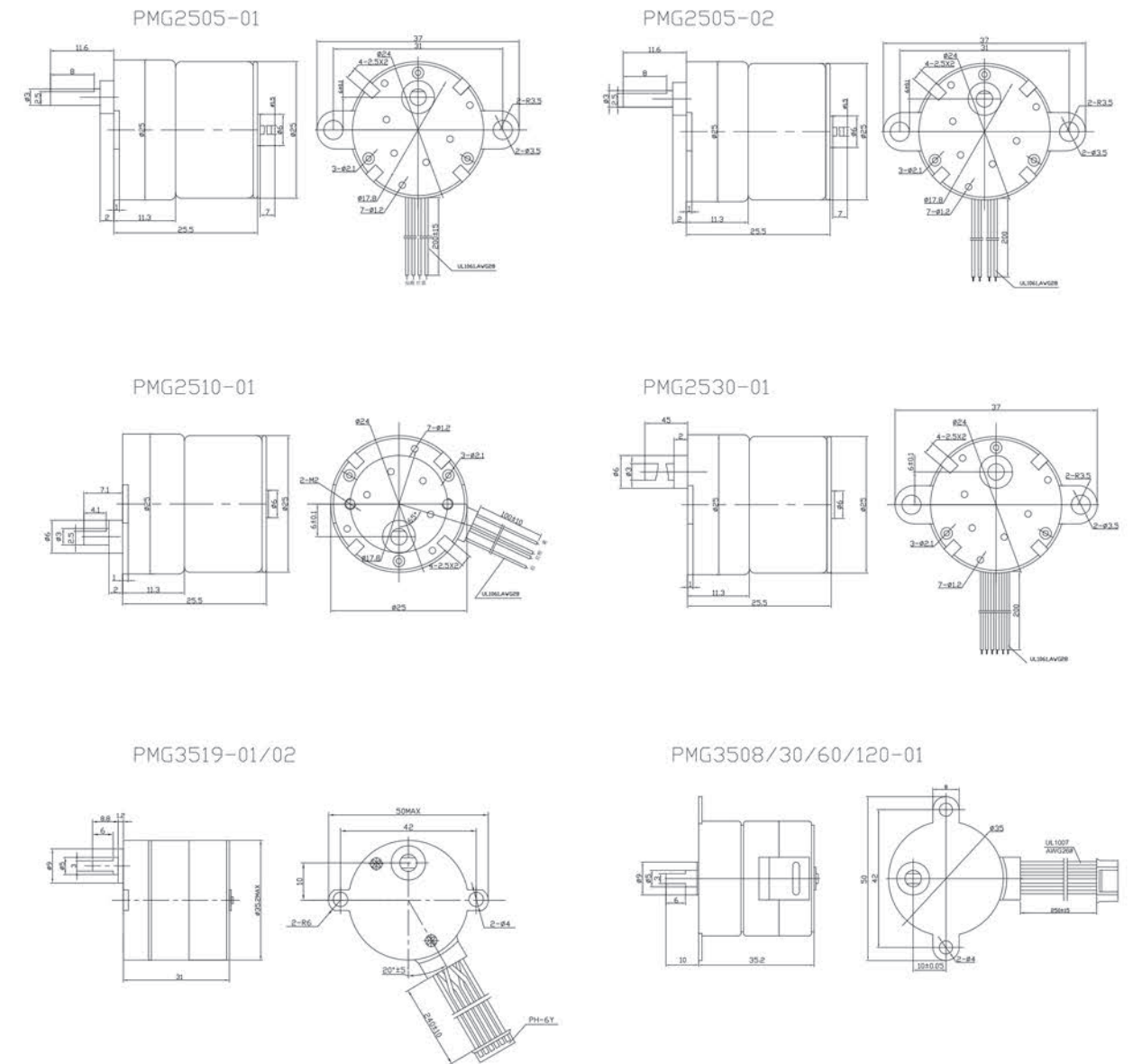
电性能 (Electrical specifications)

型号 Model	步距角 Step Angle (Deg.)	相数 No. of Phase	电压 Voltage (V)	相电流 Current /Phase (A)	相电阻 Resistance /Phase (ohms)	空载牵入频率 No-load Pull-in Frequency (pps)	牵入扭矩 Pull-in Torque (g.cm)	保持力矩 Holding Torque (g.cm)	定位力矩 Detent Torque (g.cm)	减速比 Ratio	接线图 Wire Diagram
PMG2505-01	7.5/5	2	2.6	0.52	5	450	75 at 200pps	450	<150	1:5	A
PMG2505-02	15/5	2	3.5	0.365	9.6	420	100 at 100pps	500	<150	1:5	
PMG2510-01	7.5/10	2	2.8	0.467	6	550	200 at 200pps	1400	<500	1:10	
PMG2530-01	7.5/30	4	13.3	0.11	120	680	750 at 100pps	4000	<1400	1:30	B
PMG3519-01	7.5/19	4	24	0.218	110	360	2280 at 200pps	4500	<2280	1:19	C
PMG3519-02	7.5/19	4	12	0.4	30	360	1900 at 200pps	4000	<2600	1:19	
PMG3508-01	7.5/8.4	4	12	0.4	30	500	840 at 400pps	1150	<500	1:8.4	C
PMG3530-01	7.5/30	4	12	0.4	30	500	3000 at 400pps	5000	<1500	1:30	
PMG3560-01	7.5/60	4	12	0.4	30	420	6000 at 400pps	8000	<3000	1:60	
PMG35120-01	7.5/120	4	12	0.4	30	400	8000 at 300pps	10000	<6000	1:120	

接线图 (WIRING DIAGRAM)



机械尺寸图 (Dimensions)

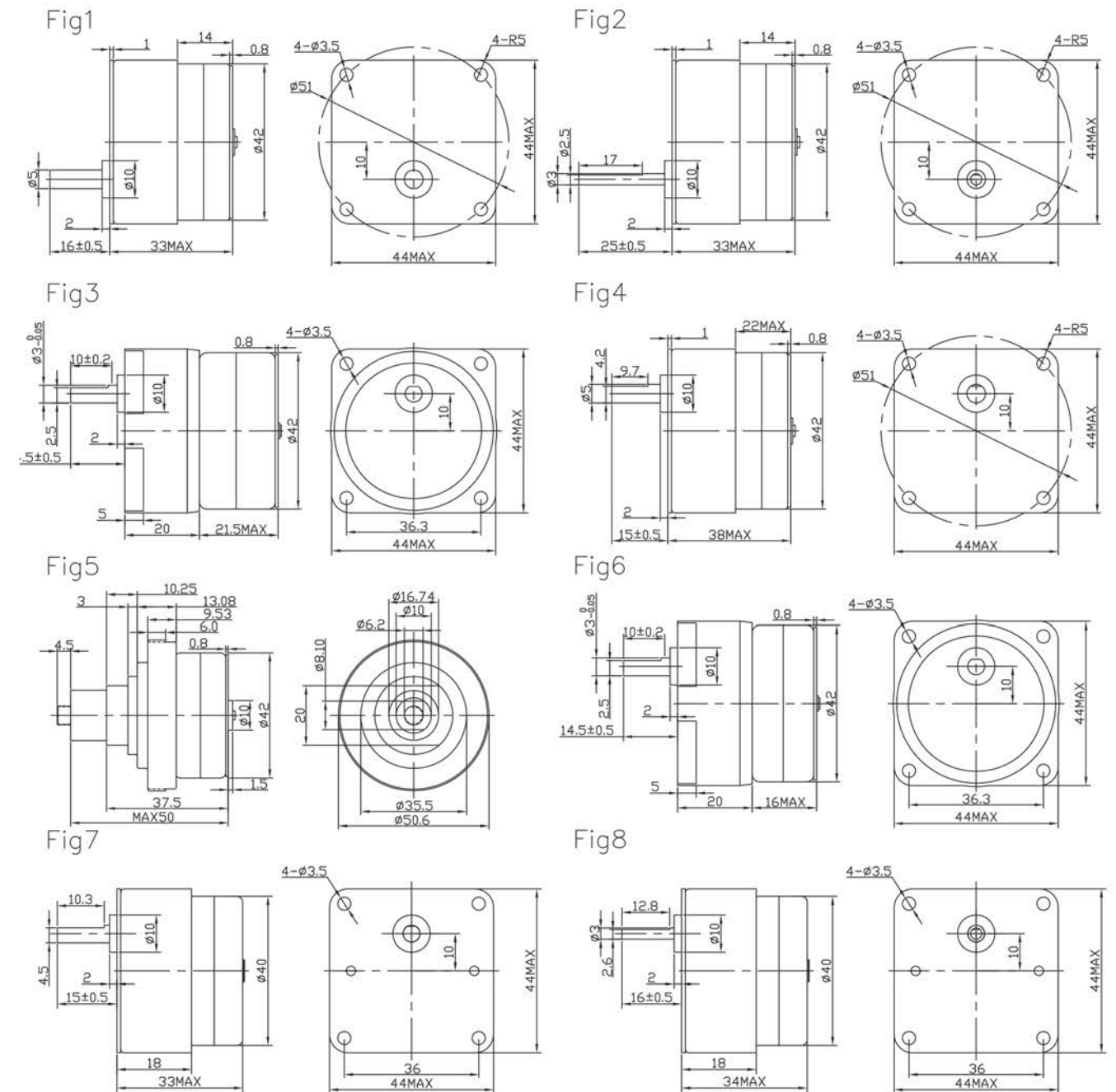


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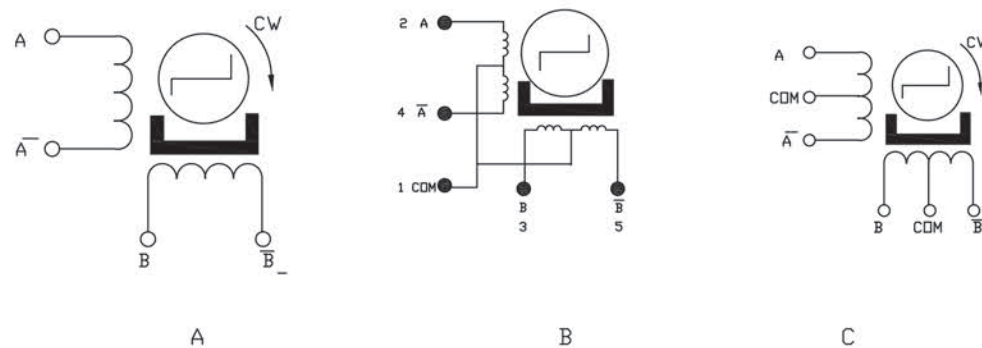
机械尺寸图 (Dimensions)



电性能 (Electrical specifications)

型号 Model	步距角 Step Angle (Deg.)	相数 No. of Phase	电压 Voltage (V)	电流 Current (A)	电阻 Resistance(Ω)	电感 Inductance(mH)	减速比 Ratio	空载启动频率 No-load Starting Frequency (pps)	牵出力矩 Pull-out Torque (g.cm)	引出线数 Leads	接线图 Wdg	外形图 Fig
42BYHJ01	7.5	4	12	0.44	27	15.1	1/24	380	1600	UL 1007 26#	b	1
42BYHJ3-01	7.5	2	12	0.22	54	58	1/3	270	800	UL 1007 26#	a	2
42BYHJ05-01	7.5	4	12	0.5)	10.7	5.2	1/5	450	1300	UL 1007 26#	c	3
42BYHJ7-01	7.5	2	12	0.22	54	57.6	1/7	300	1000	UL 1007 26#	a	2
42BYHJ10-06	7.5	2	24	0.133	180	260	1/10	260	1600	UL 1007 26#	a	4
42BYHJ12.25-01	3.6	2	12	0.16	75	75	1/12.25	350	90N(push)	AF 200 24#	a	5
42BYHJ15-01	7.5	4	12	0.18	66	31.6	1/15	270	1500	UL 1061 28#	c	6
42BYHJ20-01	15	4	12	0.18	66	41.6	1/20	240	1200	UL 1095 28#	c	7
42BYHJ25-02	7.5	4	12	0.44	27	63	1/24	380	1660	UL 1007 26#	b	1
42BYHJ50-08	15	4	24	0.08	300	175	1/50	210	2100	UL 1007 24#	c	8

接线图 (WIRING DIAGRAM)

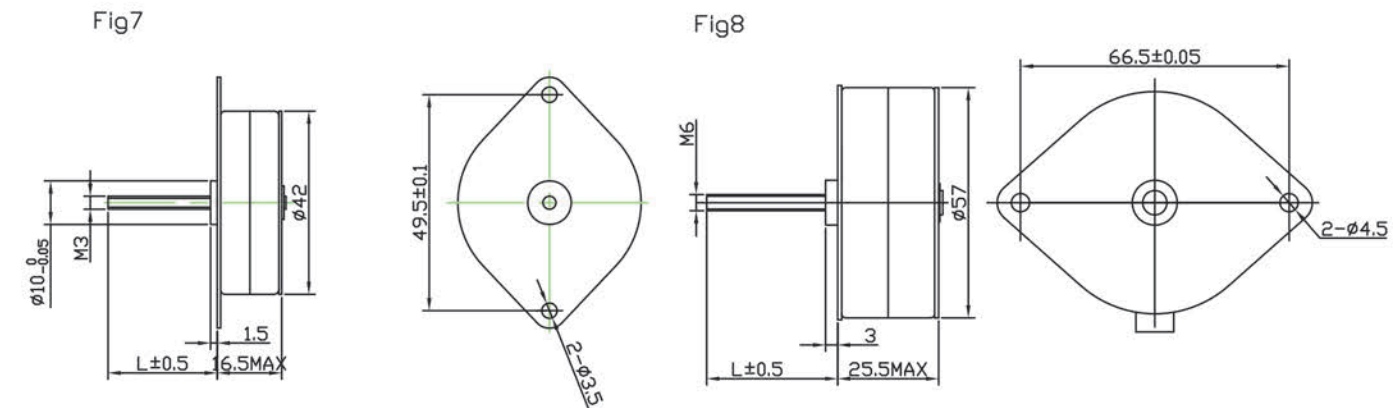
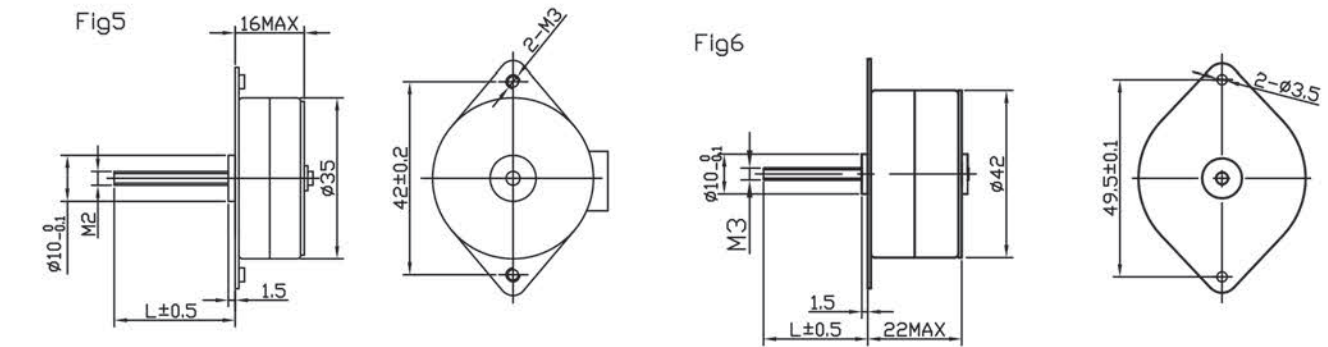
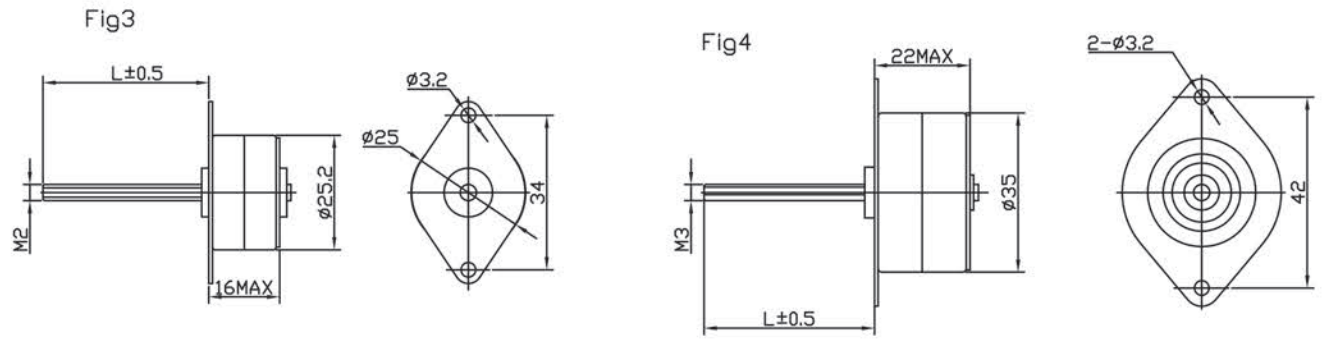
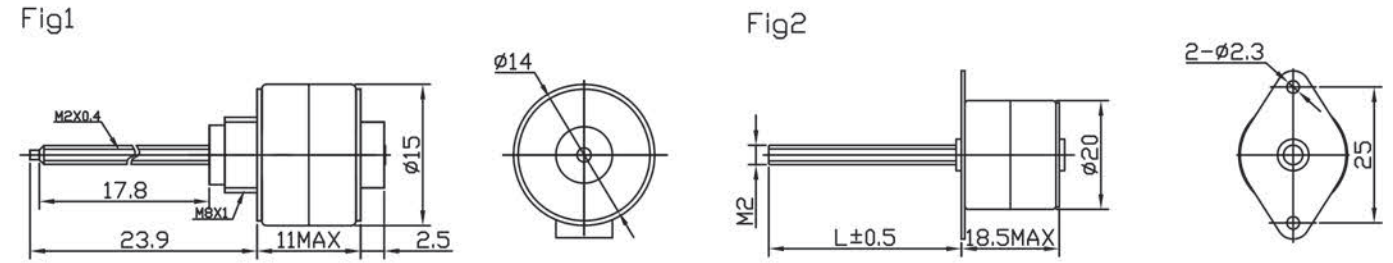


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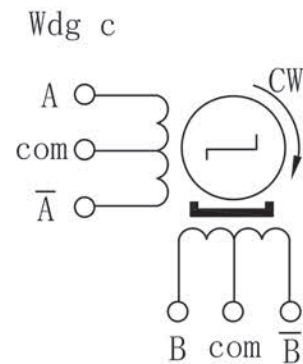
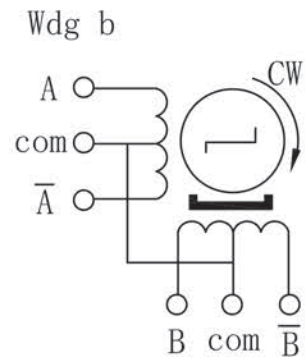
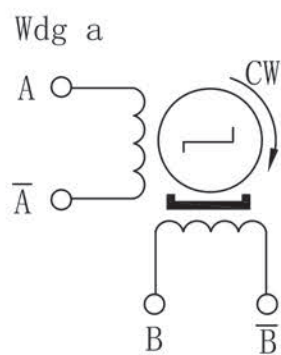
机械尺寸图 (Dimensions)



电性能 (Electrical specifications)

型号 Model	步距角 Step Angle (Deg.)	相数 No. of Phase	电压 Voltage (V)	电流 Current (A)	电阻 Resistance (Ω)	保持力矩 Holding Torque (g.cm)	牵出力矩/ 推力 Pull-in Torque (g.cm)	定位力矩 Detent Torque (g.cm)	引出线型号 Leads	接线图 Wdg	外形图 Fig
15BYT-01	18	2	12	0.07	170	25	5 (at 500Hz)	10	UL 1571 30#	a	1
20BYT-01	18	2	5	0.5	10	60	10 (at 200Hz)	20	UL 1068 28#	a.c	2
25BYT48-01	7.5	4	5	0.5	10	120	40 (at 100Hz)	45	UL 1061 28#	a.b	3
25BYT24-01	15	2	9	0.45	20	135	20 (at 200Hz)	60	UL 1061 28#	a.b	3
35BYT48L-01	7.5	4	12	0.22	60	520	50 (at 200Hz)	125	UL 1007 26#	b	4
35BYT24L-01	15	4	24	0.28	85	450	110 (at 100Hz)	125	UL 1007 26#	b	4
35BYT48S-01	7.5	4	5	0.71	7	450	60 (at 200 Hz)	75	UL 1007 26#	b	5
42BYT48L-01	7.5	4	12	0.18	70	500	60 (at 200 Hz)	125	UL 1007 26#	b	6
42BYT48S-01	7.5	4	12	0.3	40	550	70 (at 200 Hz)	100	UL 1007 26#	b	7
57BYT48-01	7.5	4	12	0.6	21	1500	320 (at 100 Hz)	425	UL 1007 26#	a.c	8

接线图 (WIRING DIAGRAM)



该款电机可以根据客户需求定制。

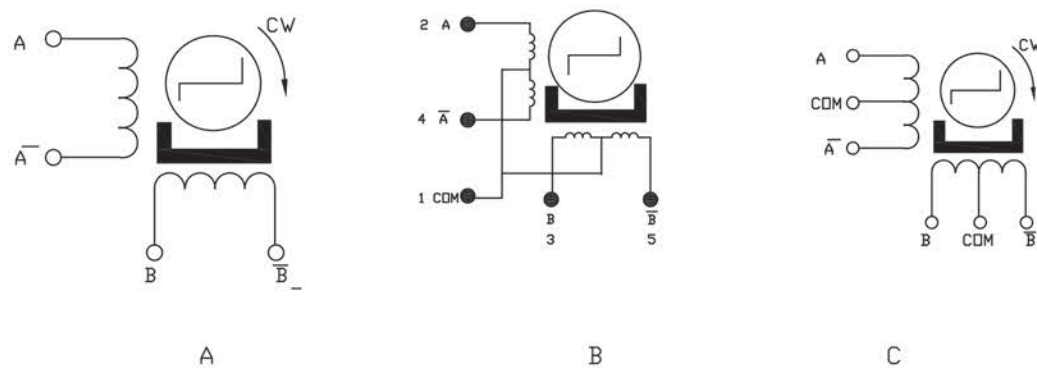
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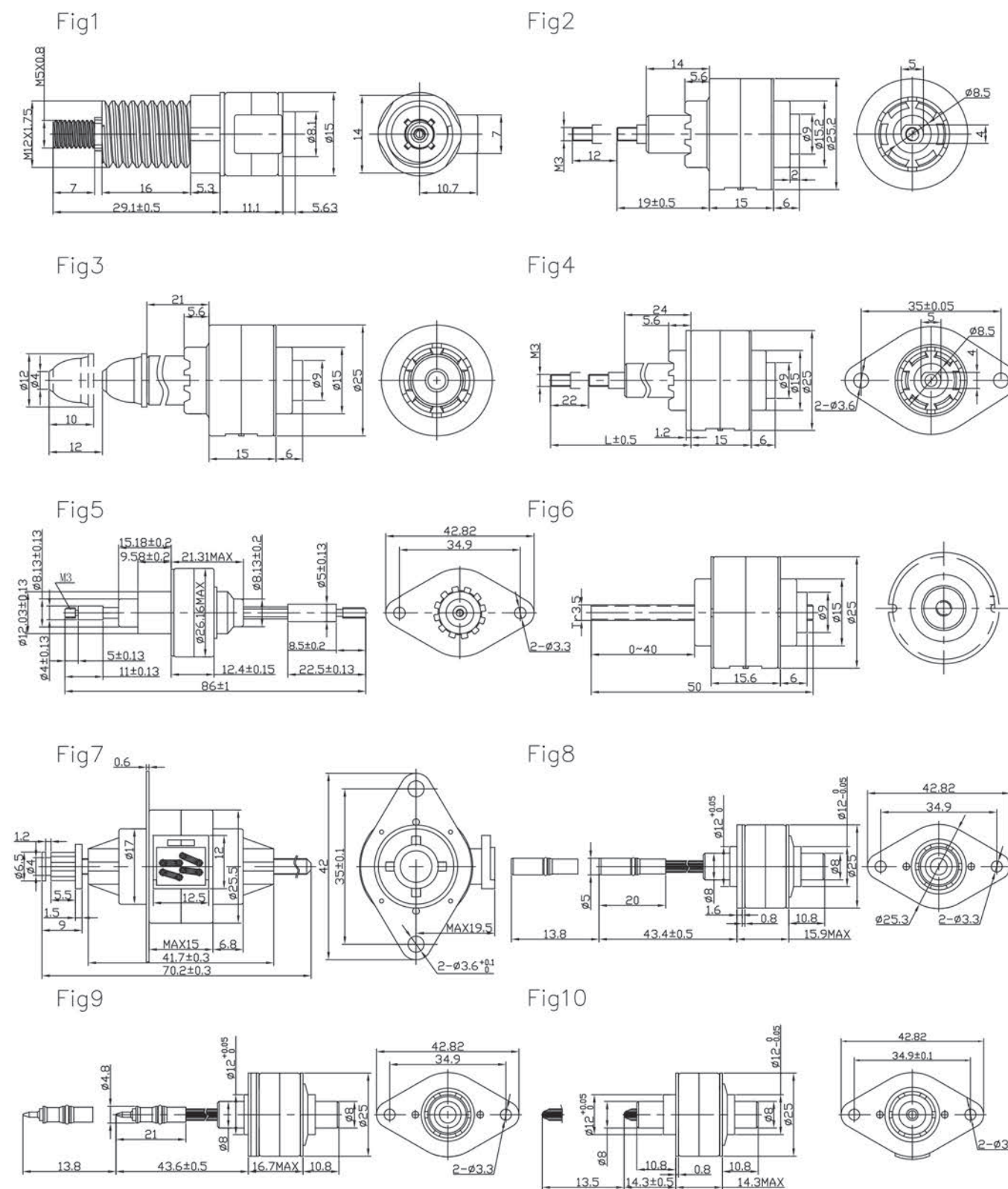
电性能 (Electrical specifications)

规格型号 Model	步距角 Step Angle (Deg.)	相数 No. of Phases	电压 Voltage (V)	电流 Current (A)	电阻 Resistance (Ω)	电感 Inductance (mH)	步长 Step Avail (mm)	推拉力 Push/Pull Torque (N)	行程 Journey (mm)	引出线 型号 Leads	接线图 Wdg	外形图 Fig
15BYZ-13	18	2	24	0.1	30	6	0.02	4	≥12	UL1061 30#	a	1
25BYZ-A04	15	4	5	0.23	22	4.3	0.0417	7	≥12	UL1061 28#	c	2
25BYZ-A01(09)	15	2	12	0.23	53	23.5	0.0417	25	≥12	AF-200 28#	a	3
25BYZ-A022	15	4	2	0.23	53	9	0.0417	15	≥22	UL1061 28#	c	4
25BYZ-A035B	7.5	2	12	0.14	84	48	0.0127	33	≥14	UL1061 28#	a	5
25BYZ-B01	15	2	12	0.23	53	23.5	0.0417	20	≥40	UL1061 28#	a	6
25BYZ-B058A	15	2	5	0.625	8	4.7	0.0508	20	≥35	UL1061 26#	a	7
25BYZ-C06	7.5	2	5	0.34	14.7	7.5	0.0254	30	≥13	UL1061 26#	a	8
25BYZ-C07	7.5	2	5	0.34	14.7	7.5	0.0254	30	≥13	UL1061 26#	a	9
25BYZ-C017	7.5	2	7	0.15	47	17.8	0.0254	9.8	≥13	UL1095 28#	a	10

接线图 (WIRING DIAGRAM)

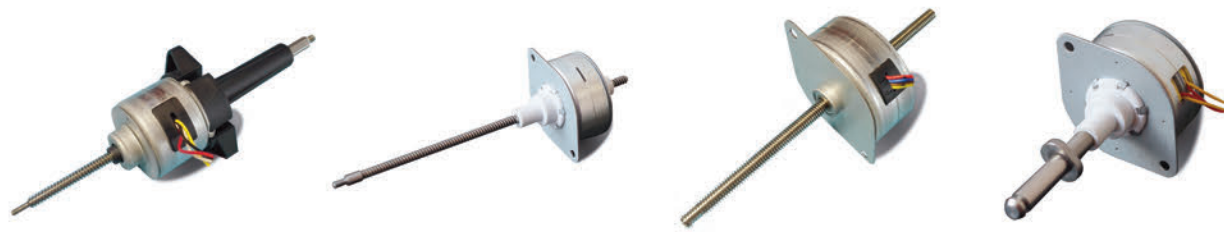


机械尺寸图 (Dimensions)



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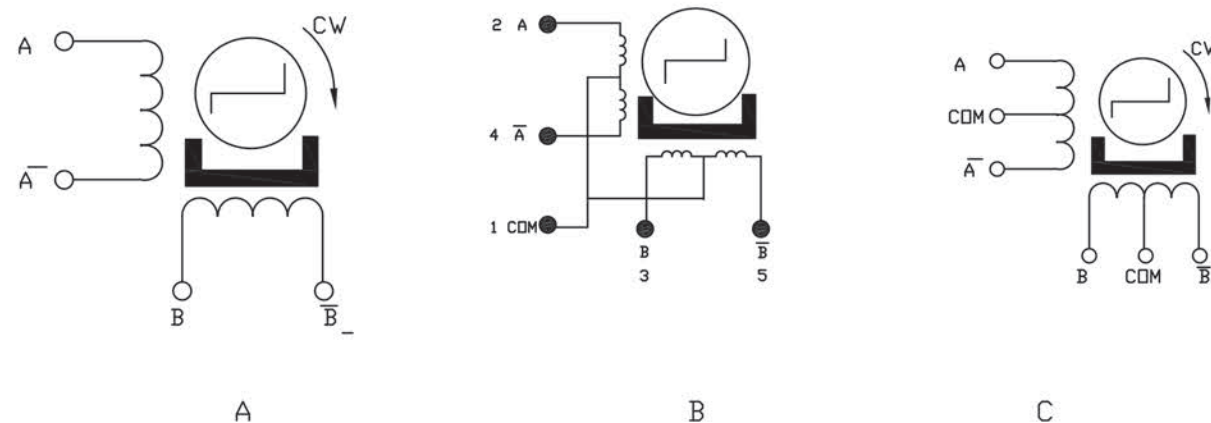
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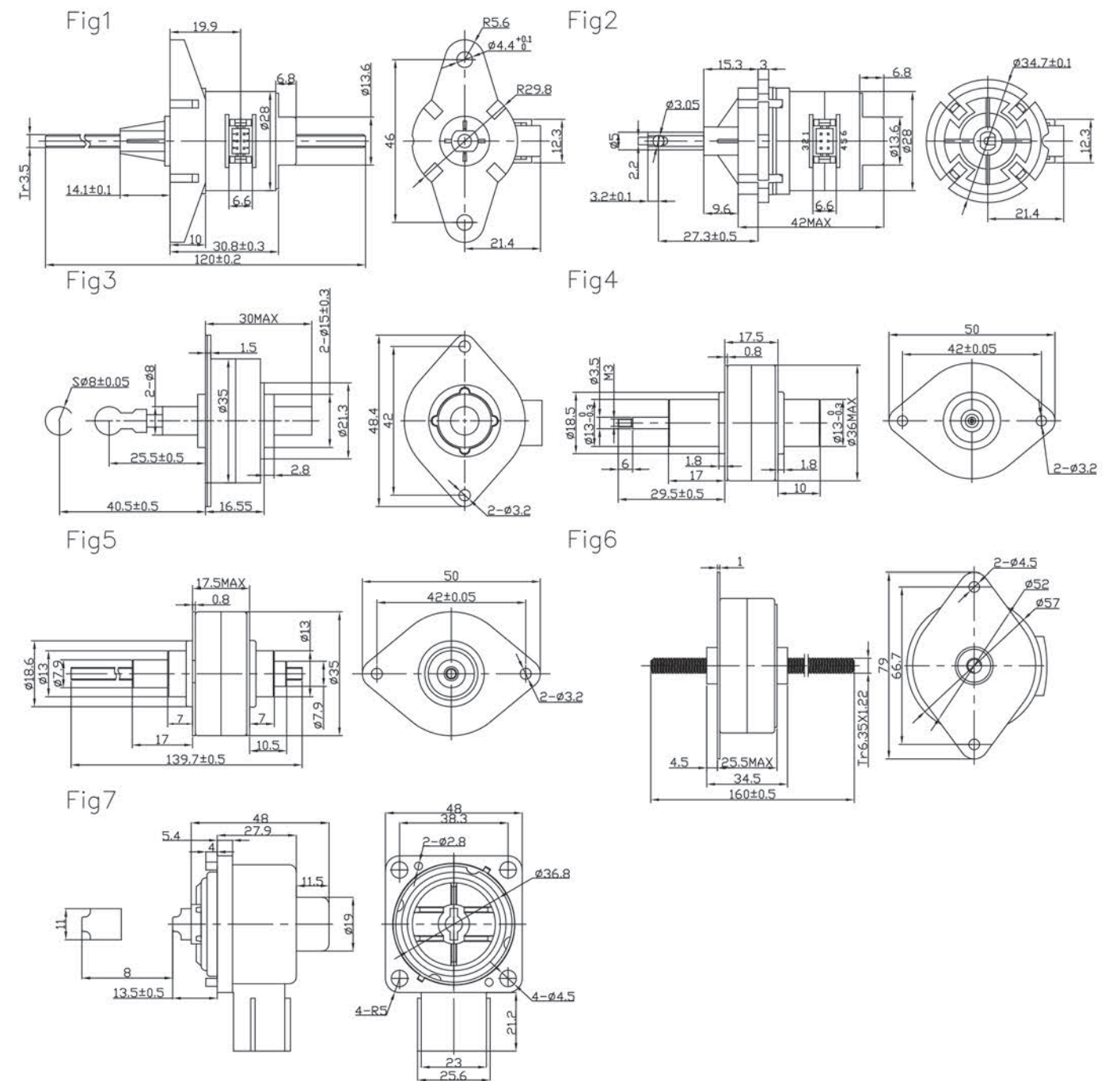
电性能 (Electrical specifications)

型号 Model	步距角 Step Angle (Deg.)	相数 No. of Phase	电压 Voltage(V)	电流 Current (A)	电阻 Resistance (Ω)	电感 Inductance (mH)	步长 Step Avail (mm)	推拉力 Push/Pull Torque (N)	行程 Journey (mm)	引出线 Leads	接线图 Wdg	外形图 Fig
28BYZ-09	15	2	5	0.46	10.8	/	0.0417	40	≧87	/	a	1
28BYZ-A01	15	2	24	0.16	150	85	0.0417	65	≧12	/	a	2
35BY16Z	7.5	2	9	0.5(constant)	7.7	8.1	0.0167	35	≧14	UL1332 24#	a	3
35YC25Z-A02	7.5	2	12	0.6(constant)	11	8.2	0.0254	100	≧5.3	UL1061 28#	a	4
35BYZ-B01F	7.5	4	5	0.46	11	/	0.0254	40	≧75	UL1061 28#	c	5
57BYZ-B022	7.5	4	12	0.67	18	18.7	0.0254	90	≧130	UL1007 26#	c	6

接线图 (WIRING DIAGRAM)



机械尺寸图 (Dimensions)



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