



FARADYI MOTOR

 法拉棣  
FARADYI  
法拉棣電機



法拉棣  
FARADYI

Product Catalogue

产品目录

# MOTOR INSTRUCTION MANUAL 馬達使用說明



為確保安全、正確地使用朴威電機的馬達，請確認你已認真閱讀本說明書之全部內容。獲取更多訊息，請與我們的業務員或代理電聯，或直接訪問朴威電機的網站 [www.promotor-sz.com](http://www.promotor-sz.com)。

Please make sure you have carefully read this manual in its entirety to ensure the correct and safe use of Pro Motor's product. For more information, please contact our sales, agent, or visit our website directly: [www.promotor-sz.com](http://www.promotor-sz.com)

# Warning 安全警示

1. 不可將馬達裸導線或端子插入插座中，可能導致觸電。  
Do not insert the motor's plain conductor or terminal into the socket as it may cause electric shock.
2. 通電時，不可觸摸接電元件，如：馬達端子，可能導致觸電。  
When power is on, do not touch the connected components such as the motor terminals because it may cause electric shock.
3. 通電時，手或手指不可接觸轉動部件，可能導致受傷。  
When power is on, do not touch any rotating parts with your hands or fingers as it may result in injury.
4. 通電時，不可卡死馬達軸，即使短時間的卡死，也可能導致馬達快速的溫升，並使之損壞。  
When power is on, DON'T leave the motor shaft locked; even being locked for just a short period of time may cause excess heat buildup and damage the motor.
5. 馬達運行過程中，由於安裝、負載或環境等因素的影響，可能會有較高的溫度需注意避免燙傷的發生。  
When the motor is running, temperature might increase due to effects from installation, electrical load, and environmental factors. Approach with caution to avoid being burnt.



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# Motor Selection

## 馬達的選擇

**1.** 馬達是一種通過供給電源（電能）使馬達軸旋轉產生機械能，而帶動（或拖動）其它物體移動或旋轉的動力元件，所以選擇馬達前請首先考慮您的目的。

A motor is a power element that generates mechanical energy by supplying power (electricity) to rotate the motor shaft, which in turn moves (or drags) other objects or rotates them. Please think about what your purpose is before selecting a motor.

**2.** 確定馬達的電源類型（如乾電池、可充電電池、整流變壓、恆壓電源等等）、電壓大小、電源容量等。

Please determine the motor's power supply type (e.g., dry battery, rechargeable battery, rectifier transformer, constant voltage power, etc.), voltage size, power capacity, etc.

**3.** 再考慮負載大小（扭力或功率或工作電流等）、負載類型（連續、斷續）。

Then you need to consider the load size (torque or power or operating current, etc.) and load type (continuous, intermittent).

**4.** 再選擇可允許的馬達外型尺寸、連接方式等。

Select the motor dimensions, connection method, etc.

**5.** 再確認馬達使用的環境狀況（溫度、濕度、有無強制冷卻等）。

Check the environmental conditions (temperature, humidity, any forced cooling, etc.) of where the motor will be placed.

**6.** 最後別忘了您心中的價位是多少。

Finally, don't forget to tell us what your target price is

# Usage and Handling

## 使用說明

**1.** 我們的馬達是永磁性馬達，因此必須保證使用場所乾淨、整潔，不建議有鐵質細碎零件在現場，它們很容易吸附進馬達表面及裡面，最後影響馬達性能甚至卡死馬達。

Our motors are permanent magnet motors, so it is necessary to ensure that the motor is operating in a clean and tidy environment. It is not recommended to have fine iron parts on the site because they can be adsorbed into the surface and inside of the motor, which ultimately affects the performance of the motor or even jams it.

**2.** 馬達的力量（或功率）是有一定範圍的，因此要求絕對不能在過載的條件下使用。要判斷是否過載，最簡單的方法就是參考馬達性能曲線，正常額定負載點一般是指馬達最大效率點，若超出最大效率點工作，不能超過 30%。例如下圖中最大效率點扭力是 500gcm，電流是 18A，則正常工作點應該在 650gcm 或 24A 以下，不能超出最大功率點進行工作。即使是瞬間的，馬達的堵轉是絕對不允許的。若有可能出現瞬間堵轉，應在打樣或正式生產前特別說明。

（有關最大效率點、最大功率點、堵轉點可參考所附性能規格書上的曲線圖）。

The motor's torque or power has a certain range and therefore requires that it should never be used under overload conditions. The simplest way to determine if the motor is overloaded is to refer to the motor performance curve. The normal rated load point generally refers to the maximum efficiency point of the motor, if the motor operates beyond the maximum efficiency point, it cannot exceed by 30%. For example, the maximum efficiency point in the figure below is 500gcm torque and the current is 18A, then the normal operating point should be below 650gcm or 24A. You can not leave the motor operating when it exceeds the maximum power point. Stalling is absolutely forbidden, even for just one second. If there is a possibility of stalling, it should be specifically stated before proofing or production.

(For the maximum efficiency point, maximum power point, and stall point, please refer to the graph in the attached performance specification).





# Motor Selection

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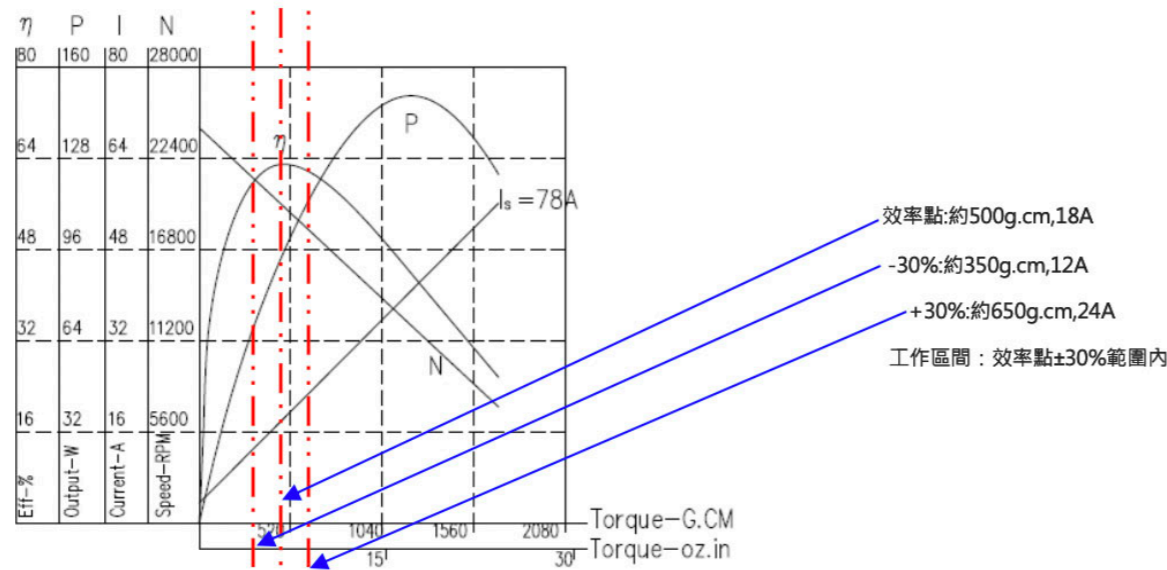
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**3.** 在馬達上連接導線、開關、繼電器、驅動 IC 等等時，必須考量其容量及熱負荷要相配，否則，可能會燒壞導致失效。

When connecting leads, switches, relays, motor driver ICs, and others, you must match the capacity and the thermal load. Otherwise it may burn out and cause failure.

**4.** 確保馬達在實際所用設備中的匹配和可靠性，包含如下項目：

可靠性、電器性能、機械性能、機械/電器噪音、儲存環境（偏離正常室溫的溫度環境）、大氣影響等等。

Ensure the compatibility and reliability of the motor with respect to the actual set of equipment used. This includes the following:

Reliability, electrical performance, mechanical performance, mechanical/electrical noise, storage environment (high and low temperatures that deviate from normal room temperature), atmospheric effects, etc.

**5.** 馬達工作時所使用電源的內阻（本身即電器迴路），高低電壓，大電流，脈衝波（含 PWM）等都會影響馬達的壽命。

The internal resistance of the power supply used in the operation of the motor (the circuit itself), high and low voltage, high current, pulse wave (including PWM) will all affect the life of the motor.

**6.** 馬達壽命終結導致的端子間短路或特殊環境條件下導致的換向器短路，都有可能發生。為避免由此造成燒機的問題，應加裝保險絲等防護措施。

Short circuit between terminals due to end of motor life or short circuit between commutator due to specific environmental/use conditions might occur. To prevent circuit burnout, take protective measures such as using fuses.

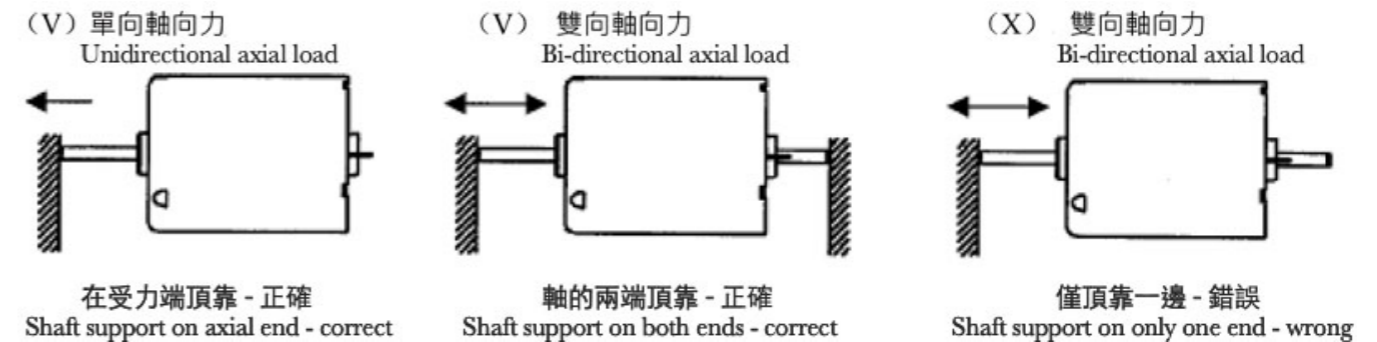
**7.** 隨著馬達使用時間的增加，馬達的絕緣性能會下降。因此在有關的電器設備中應良好的接地。

The longer you use the motor, the lower its insulation resistance becomes. Therefore, there should be good grounding in the relevant electrical equipment.

**8.** 蝸桿、風扇等可對馬達軸產生不利的軸向力，進而影響馬達壽命。

了解馬達壽命，應該將馬達安裝在實際使用的產品並在設計的工作條件下進行測試。若有較大的軸向力，應考慮加裝某些機構頂住軸端（如下圖），否則有可能出問題。

Worm gear, fan, and others can produce adverse axial forces on the motor shaft, which in turn affects the motor life. The motor should be installed in the actual product in use and tested under the designed operating conditions. If there is a greater axial load, consideration should be given to adding some mechanism to bear against the shaft end (pictured below), otherwise there may be a problem.



**9.** 輸出端的傳動系統，會產生徑向力並作用於馬達軸承上，如：皮帶傳動，務必注意否則將會導致馬達壽命的縮短。

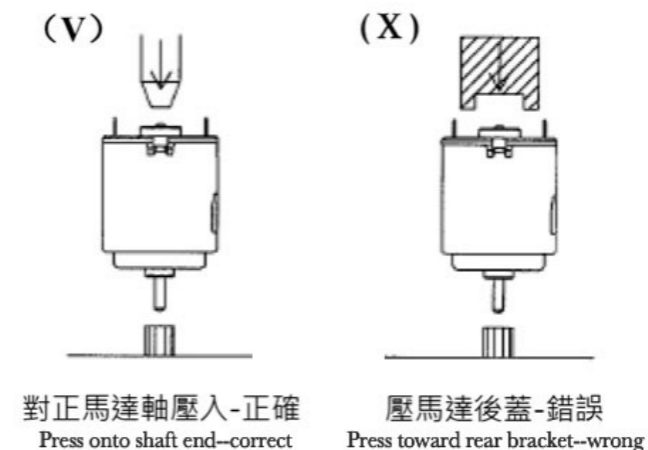
The transmission system at the output generates a radial force and acts on the motor bearing, e.g., belt drive. Please take note, otherwise it will shorten the life-span of the motor.

**10.** 過大的徑向力，如旋轉偏心輪，會產生明顯的震動，也會大大的縮短馬達的壽命，使用中必須實際裝機並在工作條件下檢查這類負面因素的影響。

Excessive radial force, such as rotating the eccentric wheel, will produce significant vibration and shorten the life of the motor greatly. Please check if such negative factors exist while the motor is operating on your machine.

**11.** 將皮帶輪、齒輪等壓入馬達軸中時，應對正馬達軸的另一端垂直壓入，請勿壓馬達蓋或其它部位。

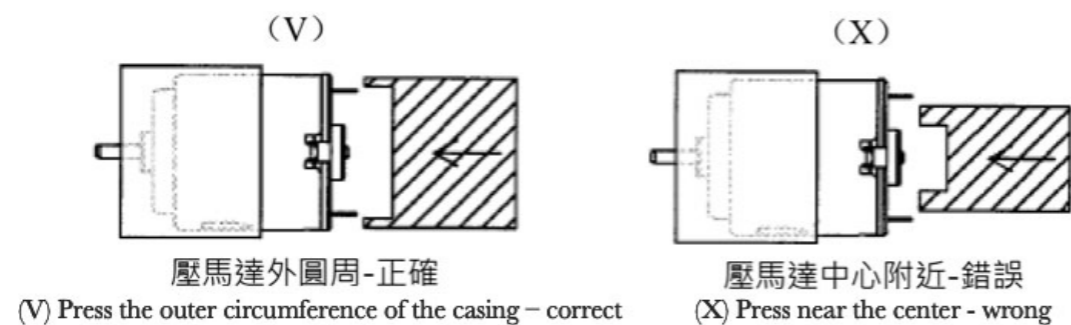
When press fitting the belt pulley, gear, and others into the motor output shaft, press it vertically against the other end of the positive motor shaft. Do not press the motor cover or other parts.





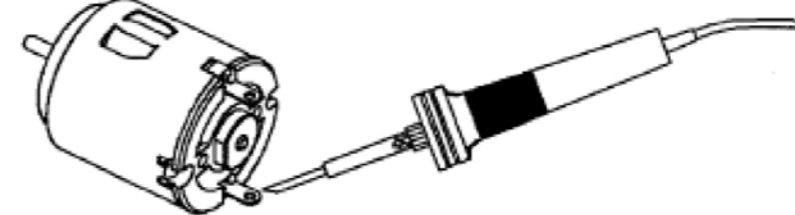
**12.** 將馬達外殼套入筒體中時，應該壓馬達的外圓周，施力於端蓋中心附近的任何零件上都有可能使馬達不起動，因此不可在中心附近施壓，另外還要特別注意，過緊的套住小馬達的外殼會影響運轉時的轉速。

When putting the motor casing into the barrel, you should press the outer circumference of the motor, applying force on any part near the center of the lid may cause the motor to strain, so do not apply pressure near the center. Also pay special attention to the fact that overtightening the small motor's casing will affect the motor speed when it is running.



**17.** 焊接時，應盡量快速，防止端子周圍的塑膠熱變形或受壓變形；還要採取必要的措施，如：蓋住焊點周圍的孔洞等，防止錫渣、松香等濺入馬達中。插入式端子馬達焊錫時更應小心以防松香等順着端子孔流入，而引起馬達不通電等問題。

Welding should be done as fast as possible to prevent the plastic around the terminals from thermal deformation or pressure deformation. Necessary measures such as covering the holes around the solder joints should also be taken to prevent tin slag and rosin from splashing into the motor. When soldering a plug-in terminal motor, you should be careful to prevent rosin from flowing in along the



**13.** 安裝馬達時，不能施加外力使馬達機殼變形；鎖螺絲時，也不能太大力，注意控制螺絲長度，以免螺絲深入機殼太長碰到內部轉子線圈或其它零件，這些都有可能影響馬達安裝面的平面度或其它性能。

When installing the motor, do not apply external force to deform the motor casing; do not apply too much force when locking the screws also. Pay attention to controlling the length of the screws so that the screws do not penetrate too deep into the casing and touch the internal rotor coil or other parts, which may affect the motor mounting surface or performance.

**14.** 安裝馬達用到熔接劑時，小心不要讓任何熔接劑流入到軸承或馬達內部。

When installing the motor with welding agent, be careful not to let any welding agent flow into the bearing or the inside of the motor.

**15.** 使用中需要用潤滑油脂時，小心油脂不能流入馬達中，可能導致馬達不啟動等問題。

When you need to lubricate the motor, make sure that the grease does not flow into the motor, as it may cause the motor not to start.

**16.** 如果馬達與設備設施的連接需要使用超聲波熔接，那麼得注意超聲波可能對馬達內部零件有損傷。

If mounting the motor to your equipment requires ultrasonic welding, then please note that ultrasonic may cause damage to the motor's internal parts.

**18.** 不要觸摸馬達軸承，以防軸承油被吸附，而引起馬達噪音。

Do not touch the motor bearing as it might absorb bearing oil and create excessive motor noise.

不要擦掉馬達殼上用油墨印上的代碼，以防變模糊或褪色。

Do not wipe the ink printed identification code on the motor casing as it might cause the code to blur or fade.



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# Usage Storage Environment 使用 / 儲存環境

1. 不要在高温高濕的環境下存放，更不要在有腐蝕性氣體的環境中存放，這些都會損傷馬達。建議的儲存環境是：溫度：10~30° C，濕度：30%~95%。倉儲時間超過 6 個月（潤滑脂馬達 3 個月以上）的馬達，應特別保管，以防馬達性狀的變化。

Do not store in a high-temperature and high-humidity environment, especially not in an environment with corrosive gas, which will all damage the motor. The recommended storage environment is between 10~30° C in temperature and 30%~95% in humidity. Motors that have been in storage for more than 6 months (grease motors for more than 3 months) should be kept under special care to prevent changes in motor performance.

2. 殺蟲劑等及其氣體都會腐蝕馬達的金屬件。如果馬達及其製品的包裝料，如紙箱、棧板等需要殺蟲處理，必須要避免馬達暴露在這種環境中。

If the packaging materials for the motor and its products, such as cartons, pallets, and others require insecticidal treatment, it is essential to avoid exposing the motor to this environment.

3. 當你的產品中有使用到含矽材料時，應注意避免下述情況發生。矽材料，含有少量分子矽的成分，如果不小心附著於馬達換向器、碳刷或其他零件中，在電能的整合作用下，有可能聚合或分解為 SiO<sub>2</sub>，SiC 或其他化合物，它們會使換向器與碳刷間的接觸電阻快速增大。同時，當安裝或使用馬達於你的產品中時，還要仔細檢查熔接劑、密封材料等可能產生有毒有害氣體的物料，如：氰化物或鹵素化合物分解的有毒有害氣體。

When silicon-containing materials are used in your products, extra care should be taken. Silicon material contains a small amount of molecular silicon. If it is accidentally attached to the motor commutator, carbon brush or other parts, under the integration of electrical energy, it may polymerize or decompose into SiO<sub>2</sub>, SiC or other compounds. This will cause the contact resistance between the commutator and carbon brush to increase rapidly. Also, when installing or using the motor in your product, you should also carefully check the welding agent, sealing material and other materials that may produce toxic and harmful gases.

Examples: toxic and harmful gases decomposed by cyanide or halogen compounds.

4. 環境及工作溫度對馬達性能或壽命會有或多或少的影響，因此對於濕熱環境必須加以特別留意。

The operating environment and temperature will affect the motor's performance and life, so special attention must be paid to hot and humid environments.



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## 装配

- 转子入前盖
- 转子加弹簧
- 转子入外壳
- 一试性能
- 啞爪
- 二试性能
- 喷码/外观检查
- 包装

## 其他

前盖入轴承

后盖入轴承



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# COMPANY INTRODUCTION 公司簡介



法拉棣

FARADYI

东莞市法拉棣科技有限公司是一家集研发、生产和销售无刷直流电机、直流有刷电机和直流减速电机及传动配件为一体的现代科技创新企业。公司拥有强大的 OEM/ODM 能力和周到的服务。产品畅销国内外市场，欧美、日本、非洲、澳洲、东南亚、中东等市场，深受客户好评。公司秉持“质量至上、持续进取、精益求精、勇于创新”的经营理念 and “诚信踏实、及时优质、卓越高效、客户满意”的服务宗旨，为客户提供价廉物美的电机产品和售前、售后的优质服务。

Faradyi Technology Co., Ltd is an innovation centric enterprise with integrated R&D, production and sales of brushless DC motors, DC brush motors, DC gear motors and related accessories.

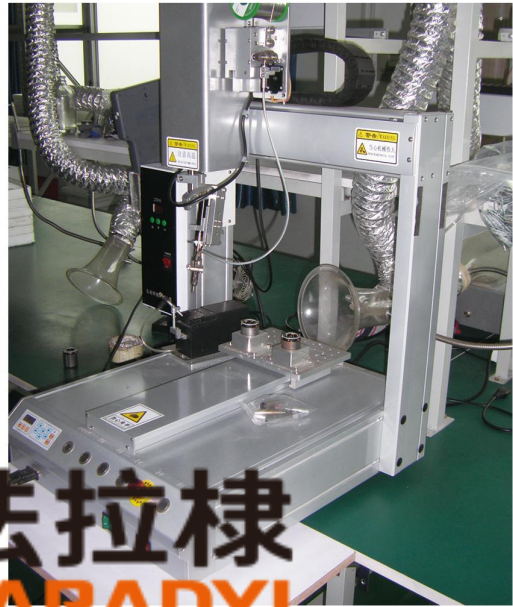
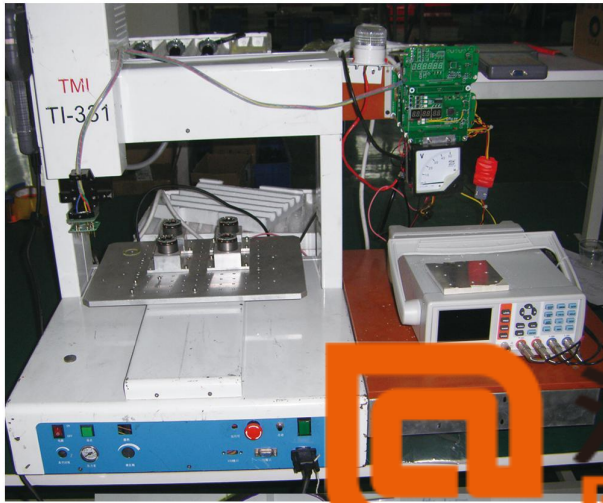
The company excels in OEM/ODM with thorough and satisfactory service. Products are popular and well received in both domestic and foreign markets, including Europe, America, Asia, Africa, Australia, Middle East and other markets.

The company adheres to its business philosophy of "Quality, continuous improvement, excellence, innovation" for its products and "integrity, practicality, timeliness, efficiency" for its services. It is dedicated for providing value in its motors and services for customer satisfaction.

# 生产设备

Production Facilities

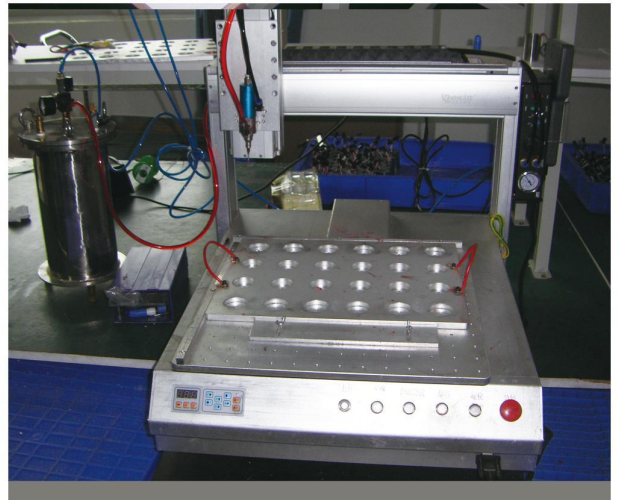
定子综合测试机



定子自动焊锡机



全自动灌封机



全自动单组份点胶机





轴心自动点胶机



全自动绕线机



自动平衡机



啤爪机

自动穿槽纸机



# 产品展示

## Product Catalogue



YD-2215



YD-2230



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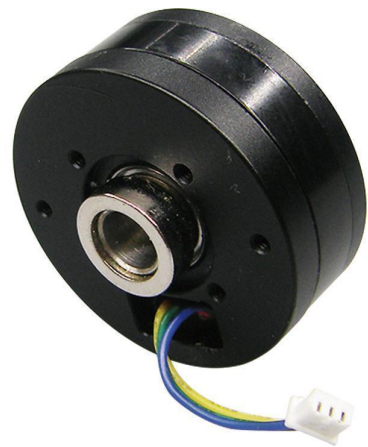
YD-2418



YD-2431



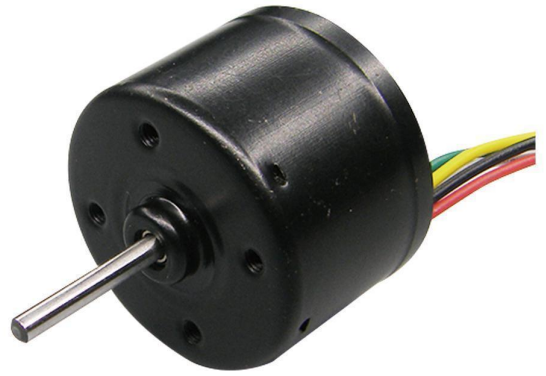
YD-2830  法拉棣 FARADYI YD-2847



YD-2847外置驱动

YD-3514





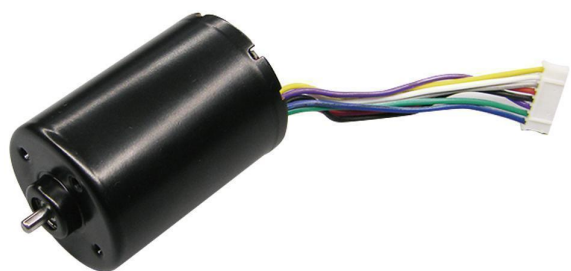
YD-520  法拉棣 FARADYI YD-3626



YD-3630



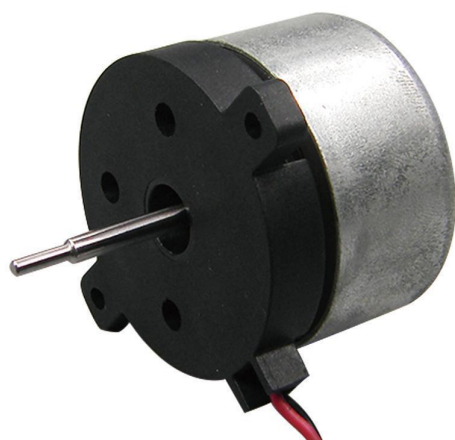
YD-3640



YD-3650 外置驱动 **法拉棣** YD-3657  
**FARADYI**



YD-3672



YD-3725



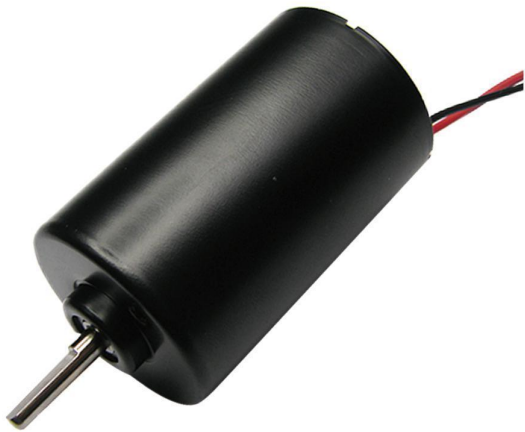
YD-4250  **法拉棧** YD-4250  
**FARADYI**



YD-4260



YD-4260行星減速

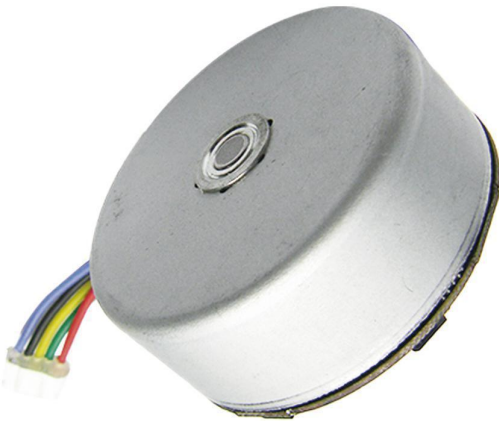


YD-4200



法拉棣 FARADYI

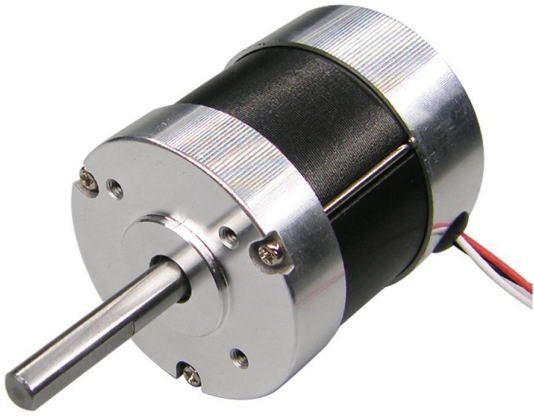
YD-4614



YD-4825



YD-5034



YD-705  法拉棣 FARADYI YD-5832



YD-9282



YD-129062

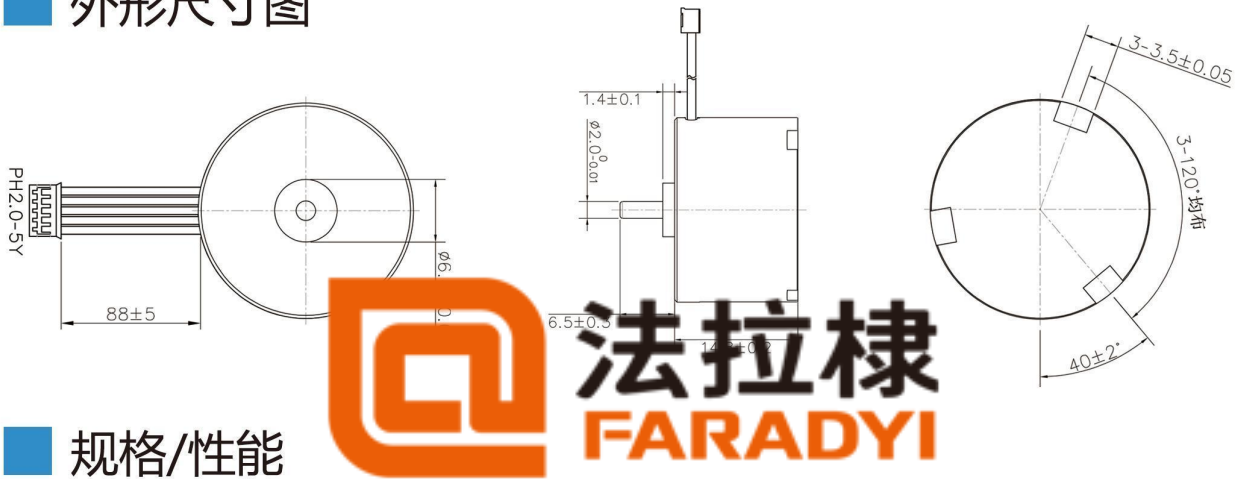


# 内转子直流无刷电机

## YD-2215

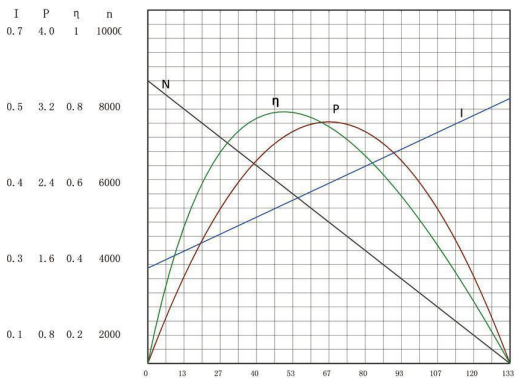


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf·cm	电流 A	转速 rpm	电流 A	力矩 gf·cm
YD-2215	12.0	0.18	8000	50.0	0.6	5000	1.2	133



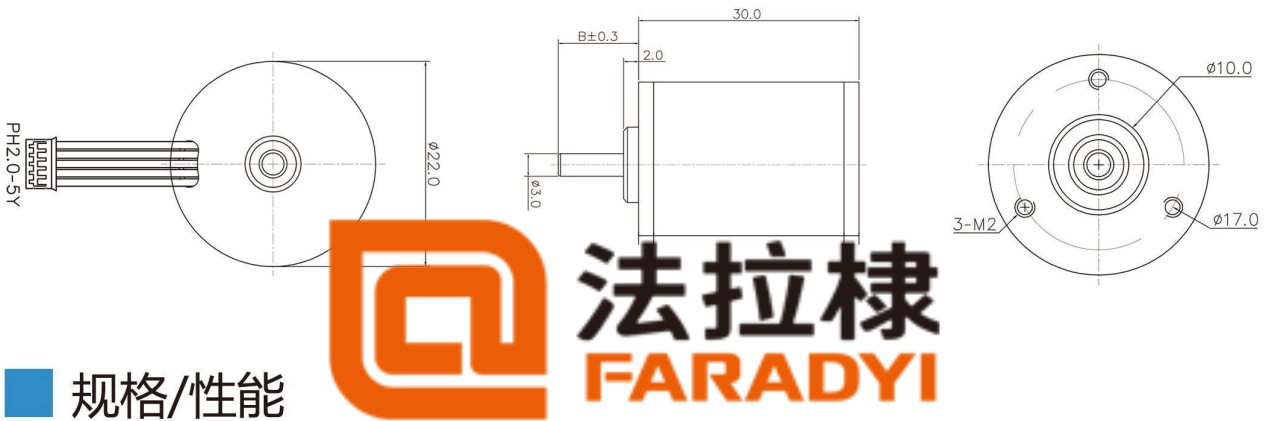
- 黑色线：电源负极
- 红色线：电源正极 +3.7~32VDC
- 蓝色线：0-1.2V DC输入或2KHZ-50KHZ PWM输入
- 白色线：输入高电平或悬空是反转，输入低电平或与负极连接是正转
- 黄色线：转速输出信号 4个脉冲/转

# 内转子直流无刷电机

## YD-2230



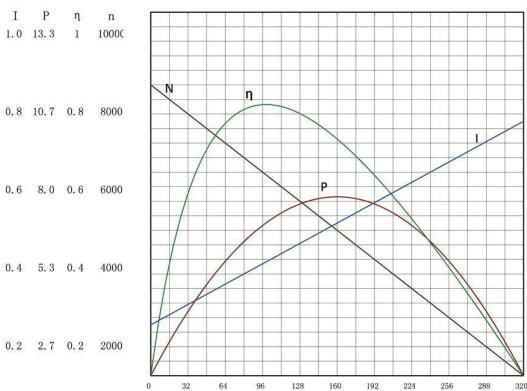
### 外形尺寸图



### 规格/性能



型号	电压 V	空载NO LOAD		负载LOAD			堵转	
		电流 A	转速 rpm	力矩 gf·cm	电流 A	转速 rpm	电流 A	力矩 gf·cm
YD-2230	24.0	0.16	8000	80.0	0.5	6000	1.0	300



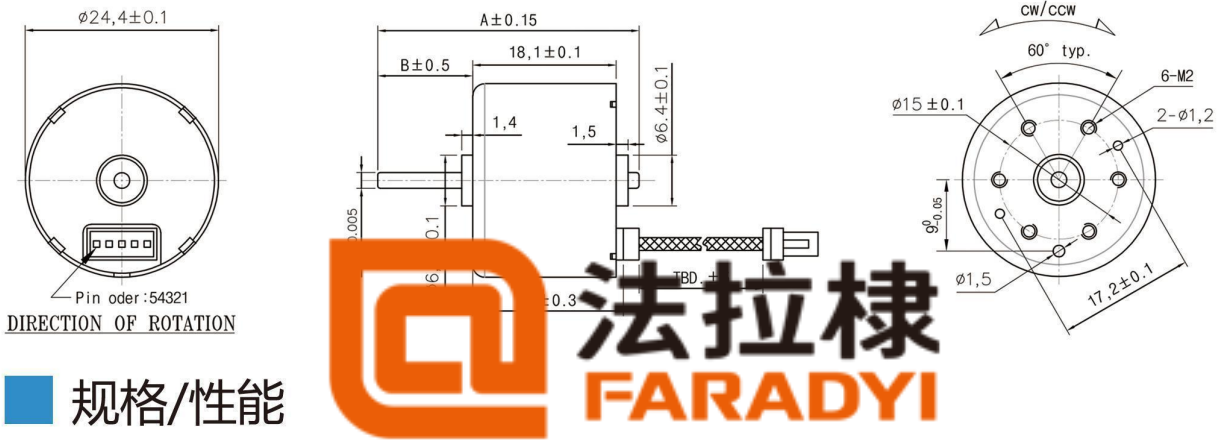
- 黑色线：电源负极
- 红色线：电源正极 +3.7~32VDC
- 蓝色线：0-1.2V DC输入或2KHZ-50KHZ PWM输入
- 白色线：输入高电平或悬空是反转，输入低电平或与负极连接是正转
- 黄色线：转速输出信号 4个脉冲/转

# 内转子直流无刷电机

## YD-2418

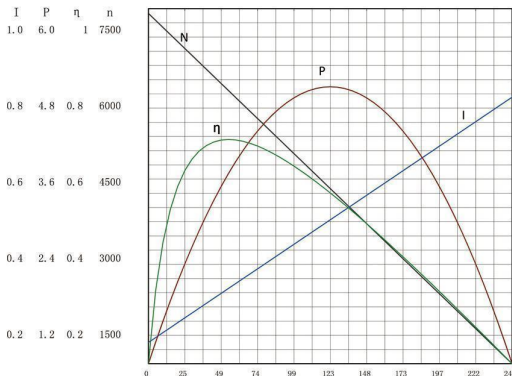


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-2418	24.0	0.06	7400	50.0	0.2	5900	0.8	250
YD-2418	6.0	0.08	3000	50.0	0.6	2250	1.3	200



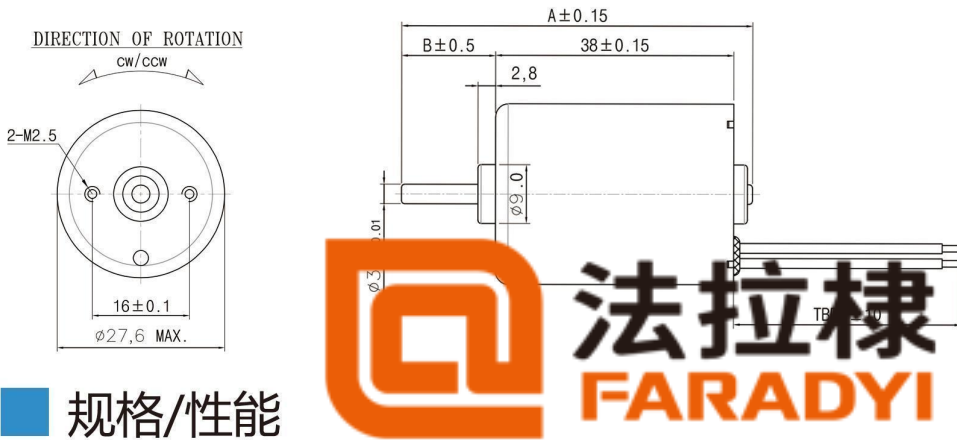
- Vcc: red
- PG: green
- cw/ccw: yellow
- GND: black
- PWM: blue

# 内转子直流无刷电机

## YD-2838

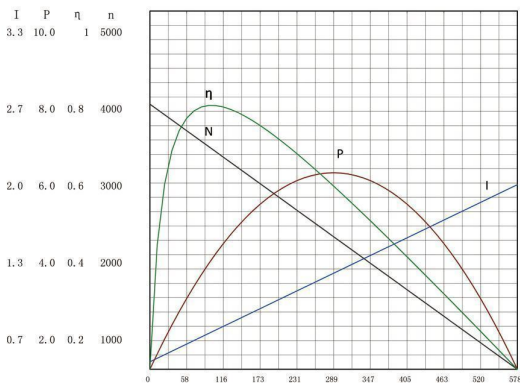


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-2838	12.0	0.07	3700	200.0	0.64	2420	1.6	578
YD-2838	24.0	0.07	3300	150.0	0.26	2500	1.0	618

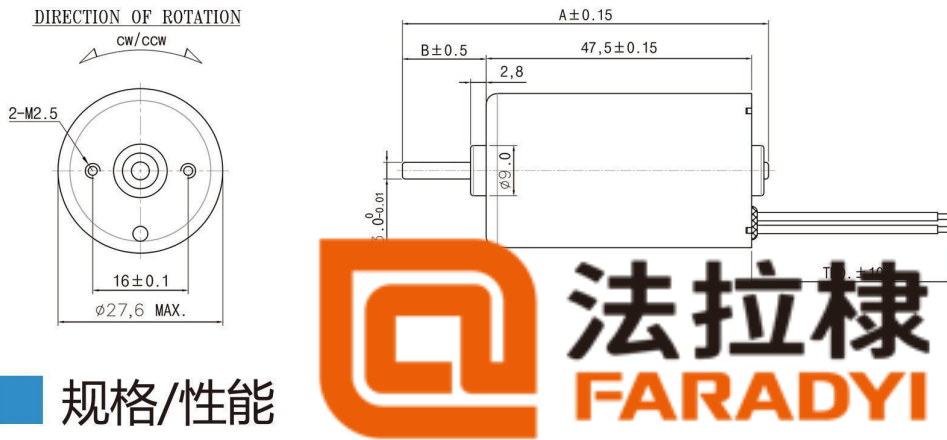


# 内转子直流无刷电机

## YD-2847

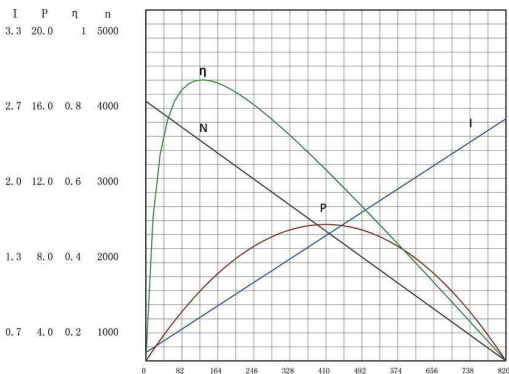


### 外形尺寸图



### 规格/性能

型号	电压 V	空载 NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-2847	24.0	0.08	3700	200.0	0.65	2800	1.6	820
YD-2847	32.0	0.14	20500	200.0	1.3	18050	5.0	1000



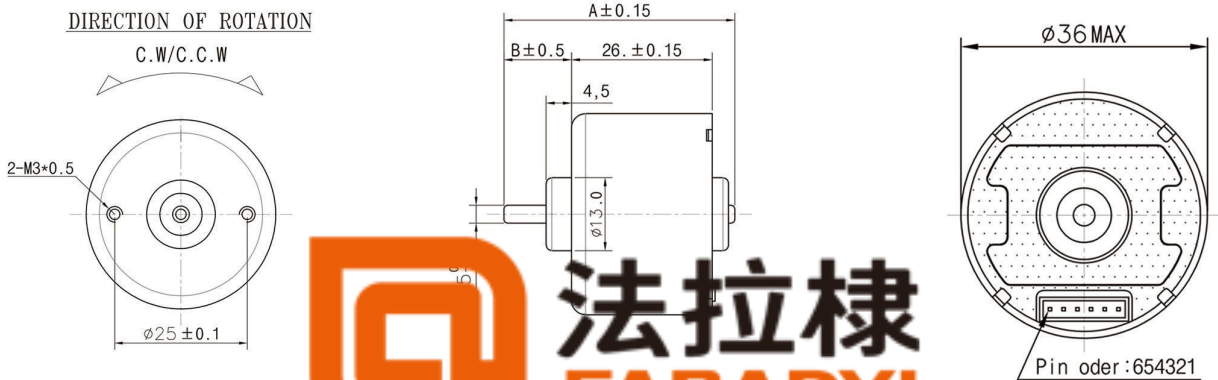


# 内转子直流无刷电机

## YD-3626

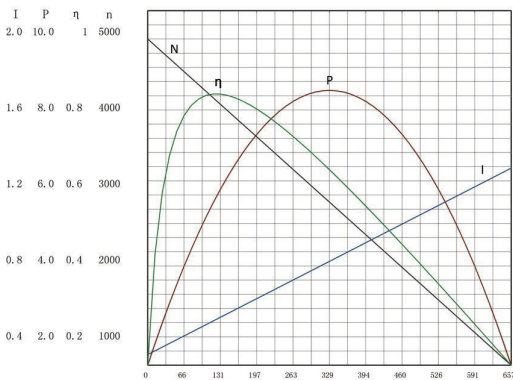


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-3626	24.0	0.06	4600	100.0	0.26	3900	1.1	600



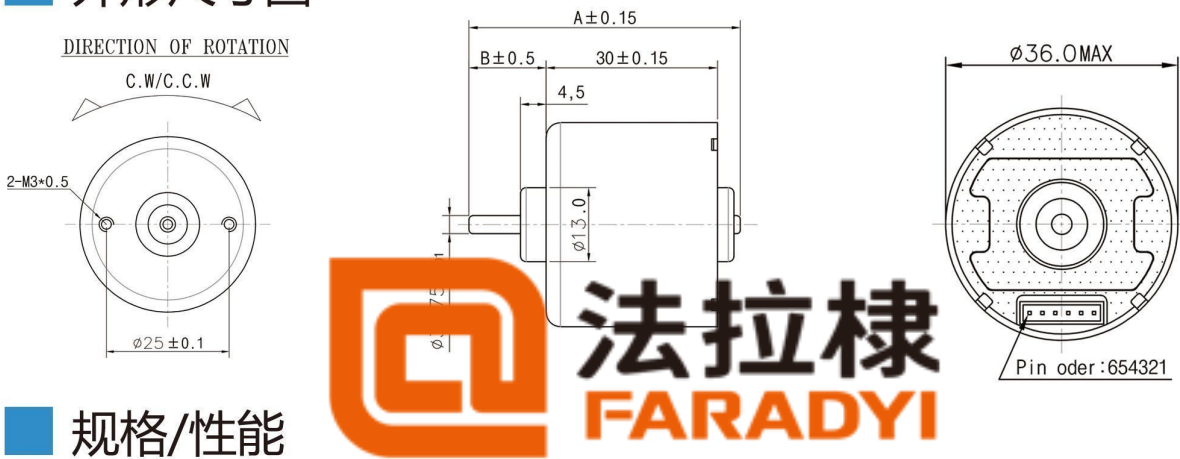
- 1、Vcc
- 2、GND
- 3、PWM调速
- 4、F/R正反转控制
- 5、FG转速反馈信号
- 6、刹车

# 内转子直流无刷电机

## YD-3630

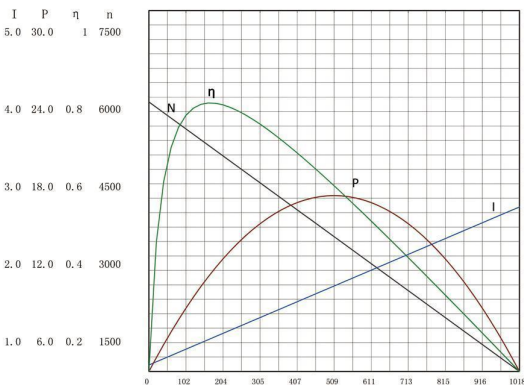


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-3630	24.0	0.09	5600	200.0	0.52	4500	2.2	1000



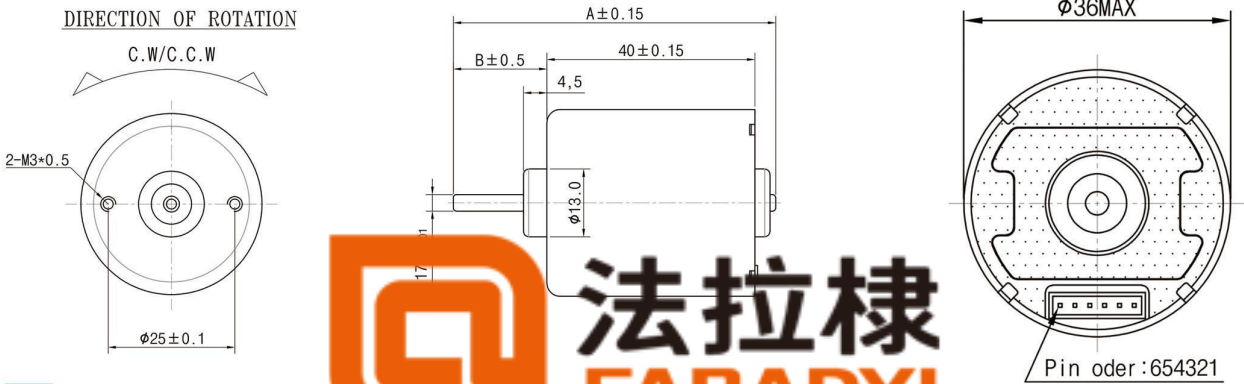
- 1、Vcc
- 2、GND
- 3、PWM调速
- 4、F/R正反转控制
- 5、FG转速反馈信号
- 6、刹车

# 内转子直流无刷电机

## YD-3640

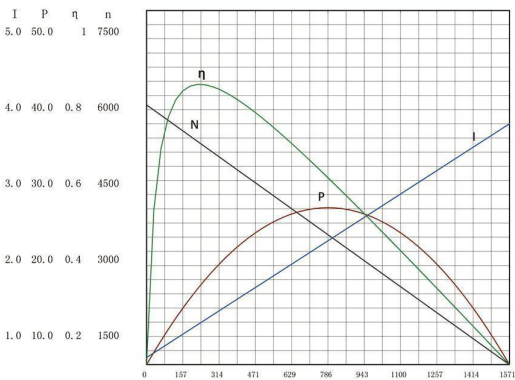


### 外形尺寸图



### 规格/性能

型号	电压 V	空载 NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-3640	24.0	0.08	5500	200.0	0.52	4800	2.9	1400



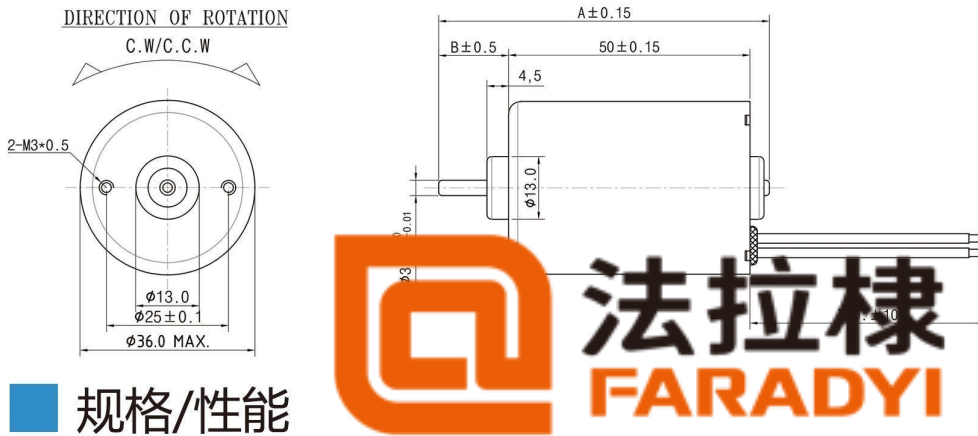
- 1、Vcc
- 2、GND
- 3、PWM调速
- 4、F/R正反转控制
- 5、FG转速反馈信号
- 6、刹车

# 内转子直流无刷电机

## YD-3650

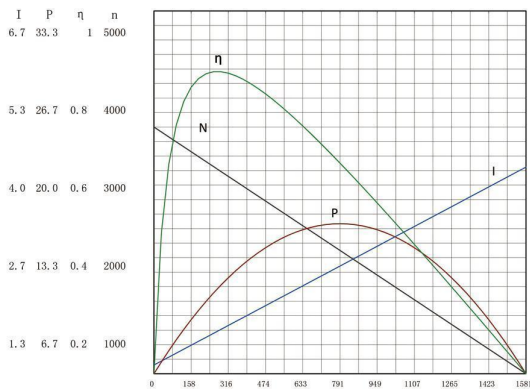


### 外形尺寸图



### 规格/性能

型号	电压 V	空载 NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-3650	12.0	0.16	3400	200.0	0.6	2970	3.5	1520



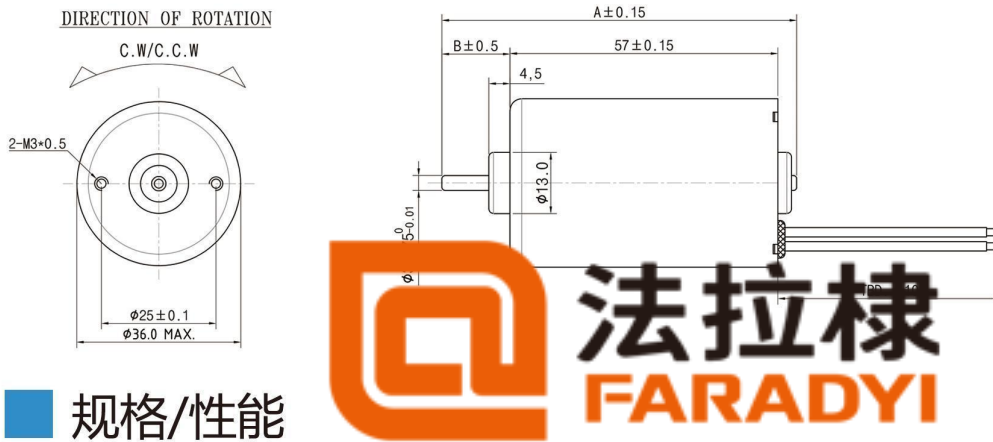


# 内转子直流无刷电机

## YD-3657

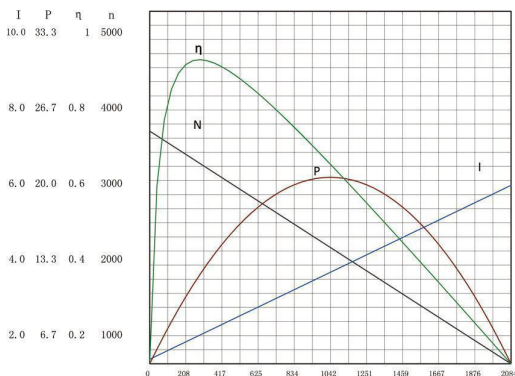


### 外形尺寸图



### 规格/性能

型号	电压 V	空载 NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-3657	12.0	0.13	3300	600.0	1.5	2350	3.5	2000
YD-3657	14.4	0.96	20600	200.0	3.7	18060	23.0	1622

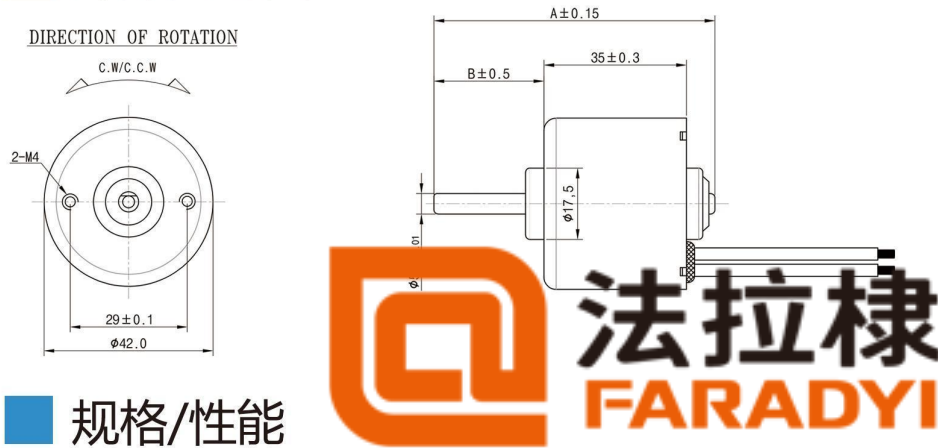


# 内转子直流无刷电机

## YD-4235

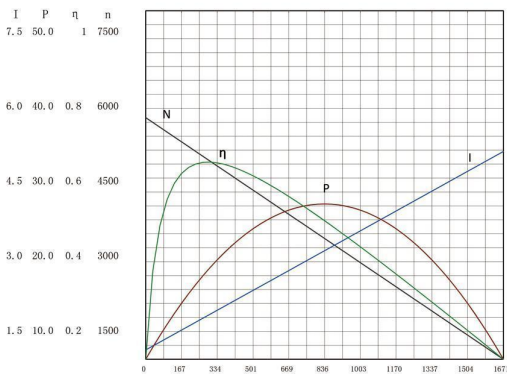


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-4235	24.0	0.2	5200	600.0	1.5	3800	4.5	1500

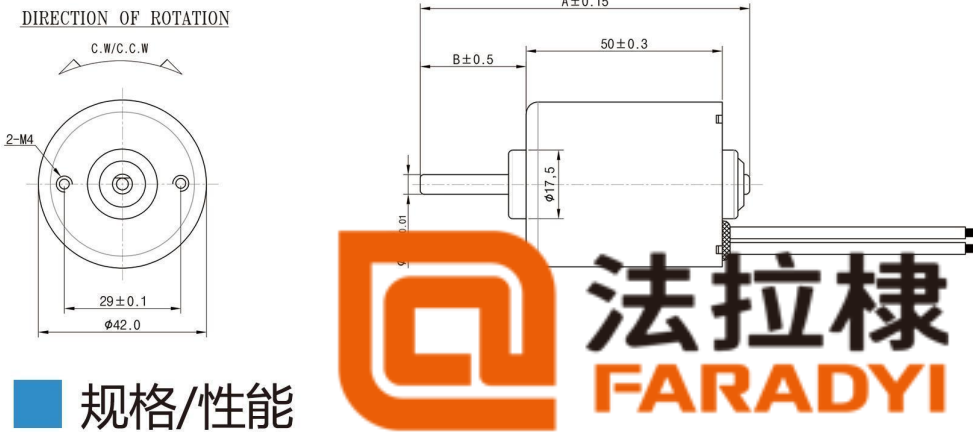


# 内转子直流无刷电机

## YD-4250

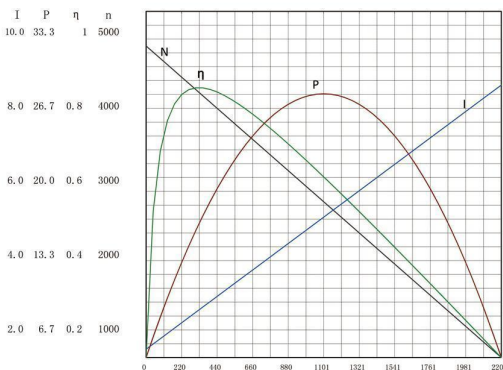


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-4250	12.0	0.24	4500	450.0	1.8	3580	4.5	2200

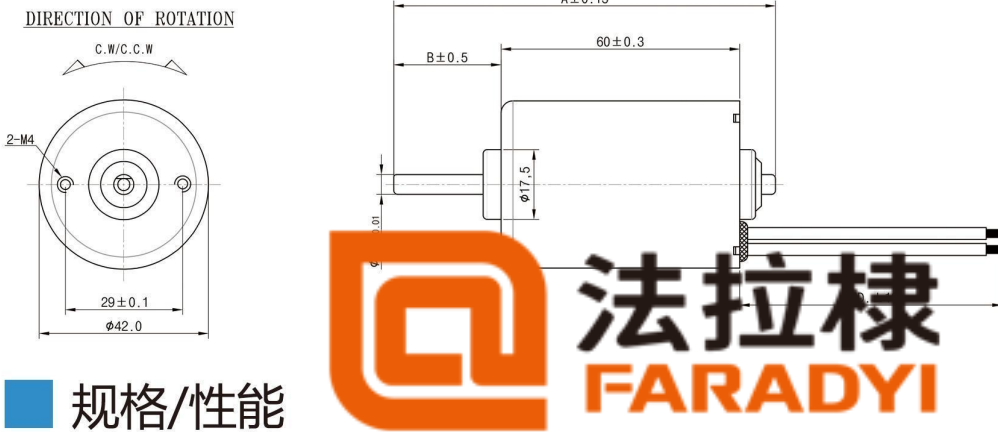


# 内转子直流无刷电机

## YD-4260

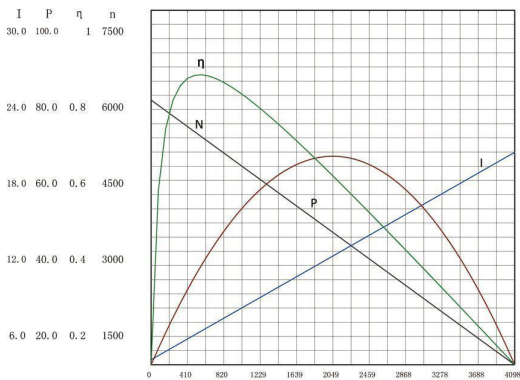


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-4260	12.0	0.43	5600	600.0	3.0	4780	10.0	3800



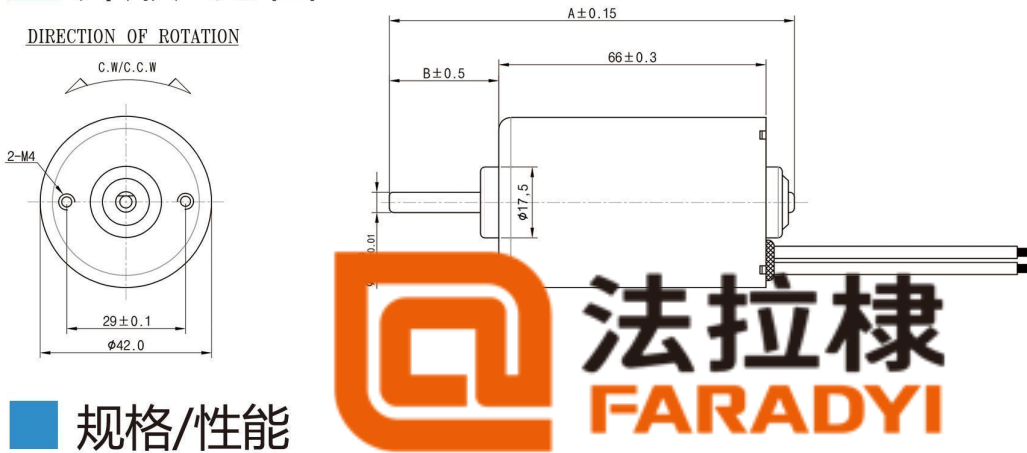


# 内转子直流无刷电机

## YD-4266

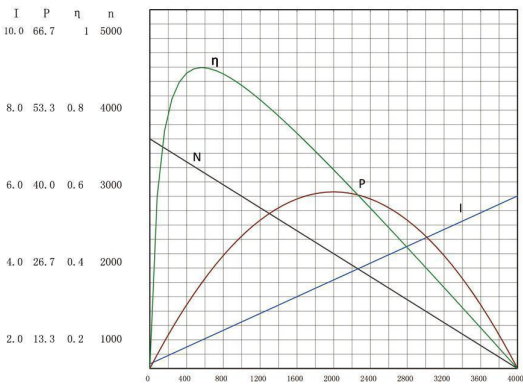


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-4266	24.0	0.13	3200	1000.0	1.3	2400	4.8	3980



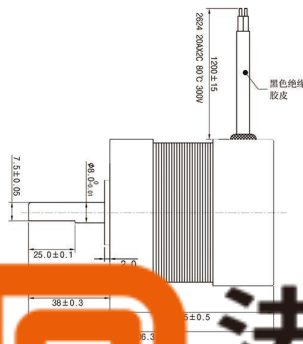
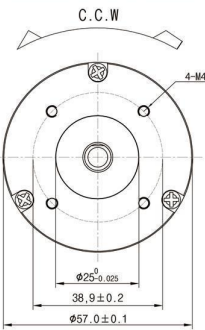
# 内转子直流无刷电机

## YD-5765



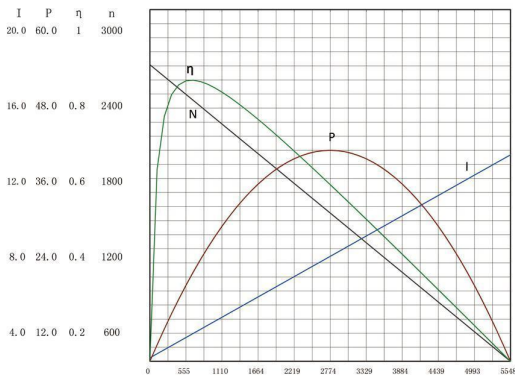
### 外形尺寸图

DIRECTION OF ROTATION



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-5765	12.0	0.2	2530	1250	2.8	1960	11.7	5548



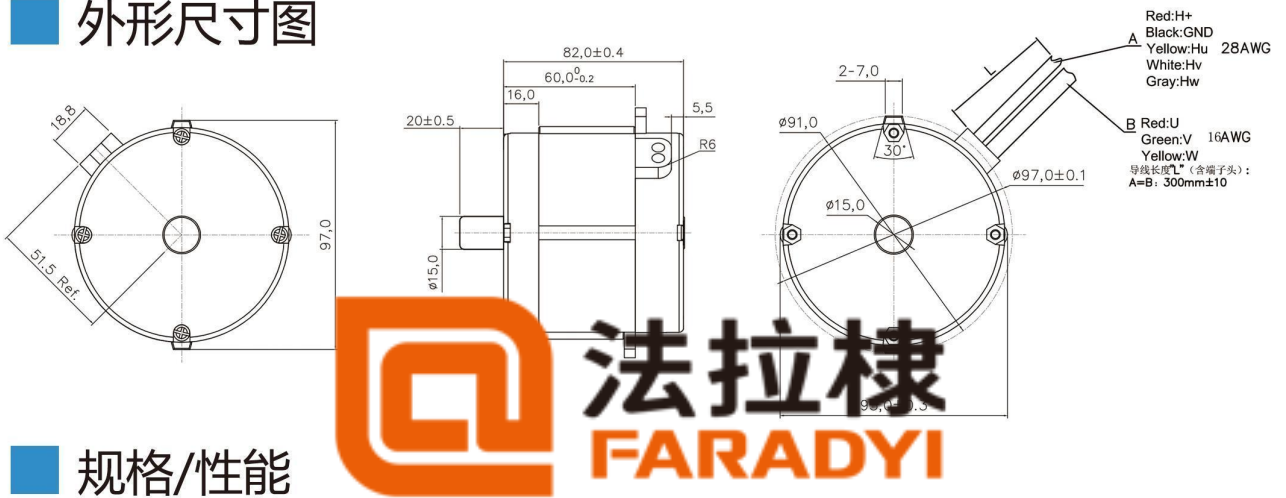
- 红色引线：电源正极
- 黑色引线：电源负极

# 内转子直流无刷电机

## YD-9282

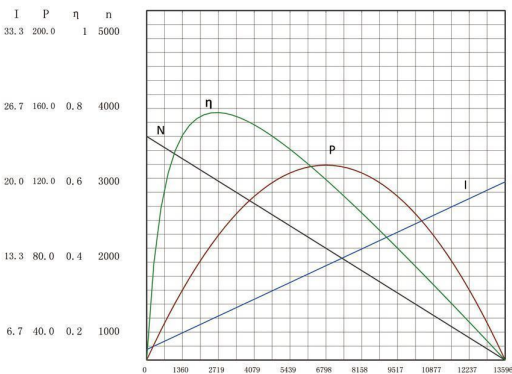


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-9282	24.0	1	3200	5098.6	7.0	2000	17.0	13596.2

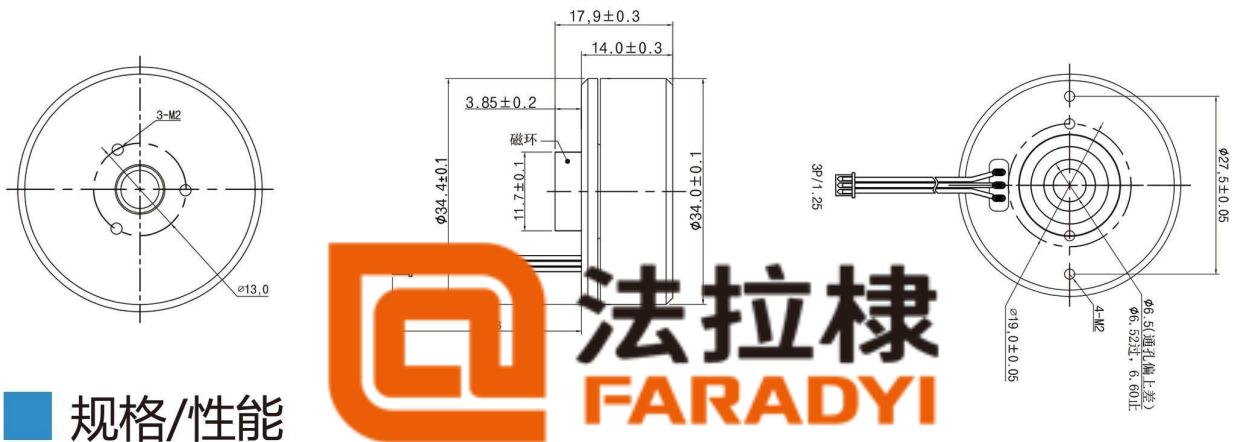


# 外转子直流无刷电机

## YD-3514



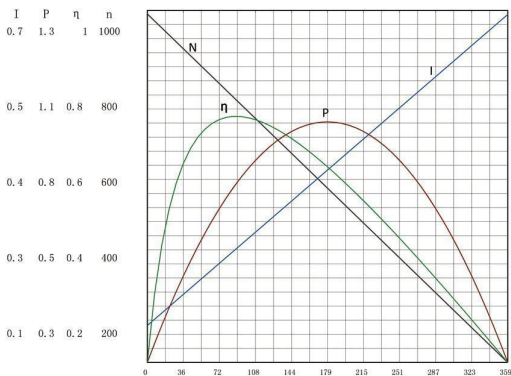
### 外形尺寸图



### 规格/性能



型号	电压 V	空载 NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-3514	4.5	0.07	990	359.5	0.2	733	0.6	359.5



- 红色引线: 线圈U相
- 黑色引线: 线圈V相
- 白色引线: 线圈W相

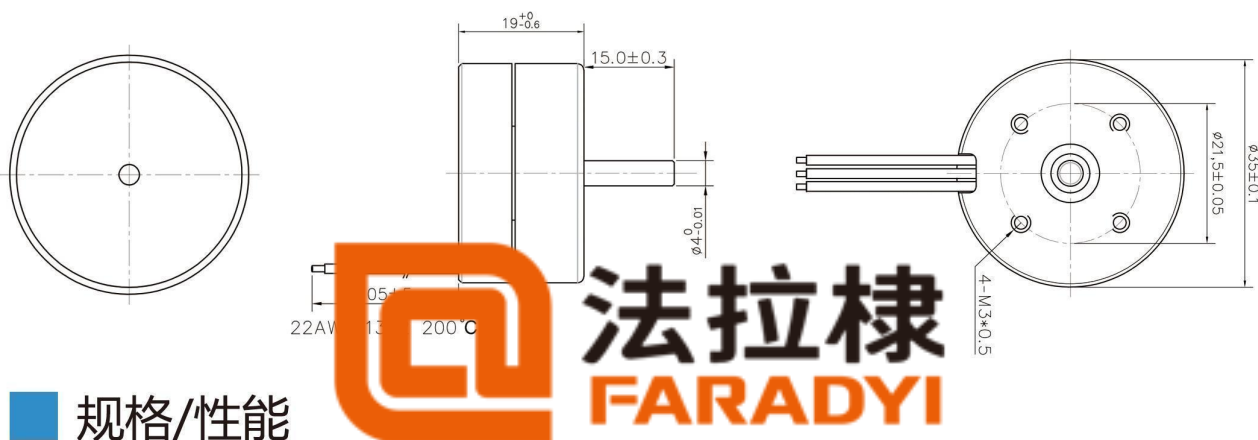


# 外转子直流无刷电机

## YD-3520

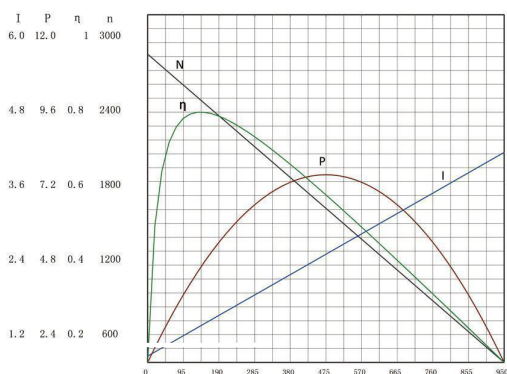


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-3520	7.2	0.11	2660	200.0	0.9	2100	4.0	1000



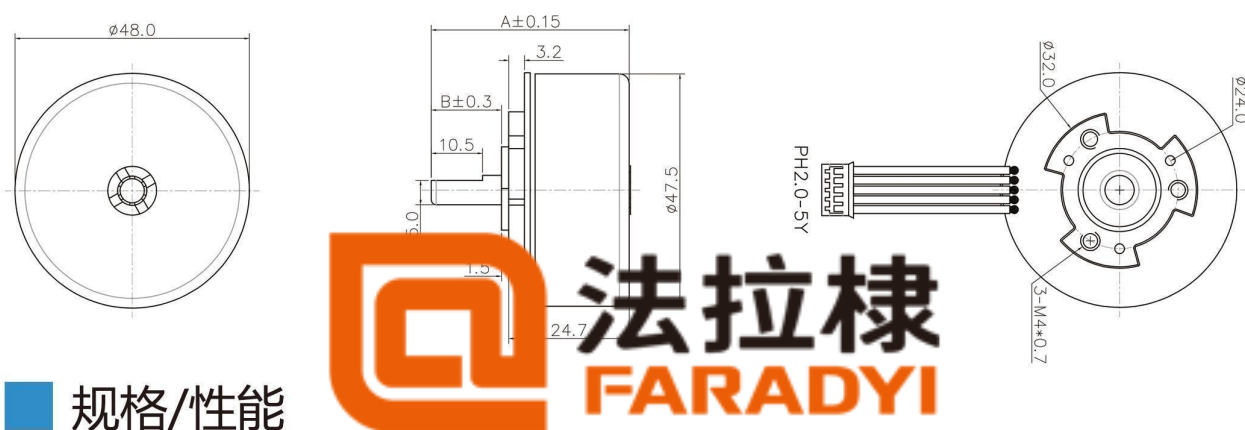
- 红色引线：线圈U相
- 黑色引线：线圈V相
- 白色引线：线圈W相

# 外转子直流无刷电机

## YD-4825

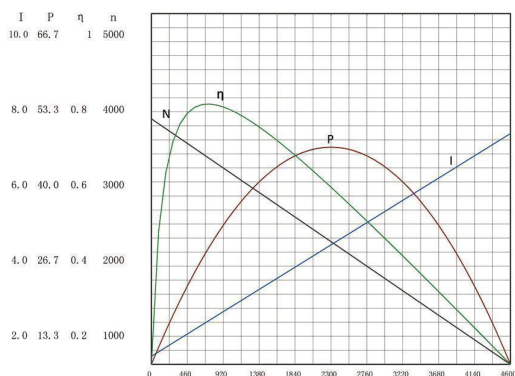


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-4825	24.0	0.23	3500	920.0	1.5	2800	7.4	6000



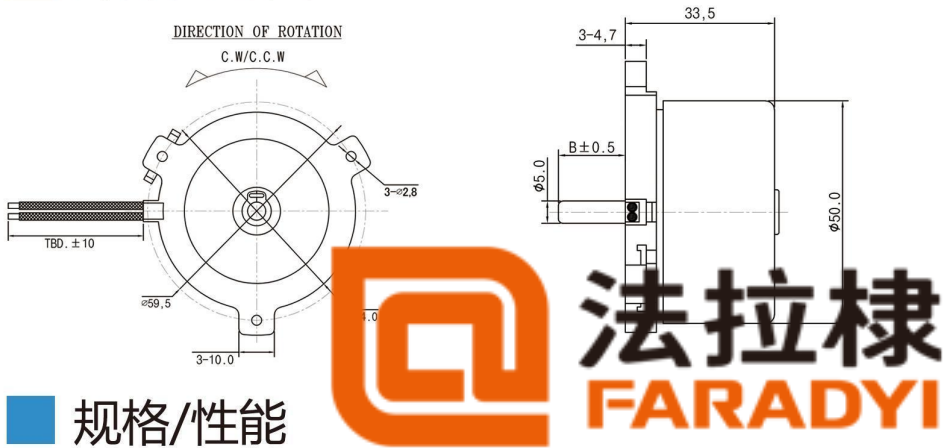
- 红色引线: 电源正极
- 黄色引线: FG转速反馈信号
- 白色引线: 转向控制
- 黑色引线: 电源负极
- 绿色引线: PWM调速

# 外转子直流无刷电机

## YD-5034

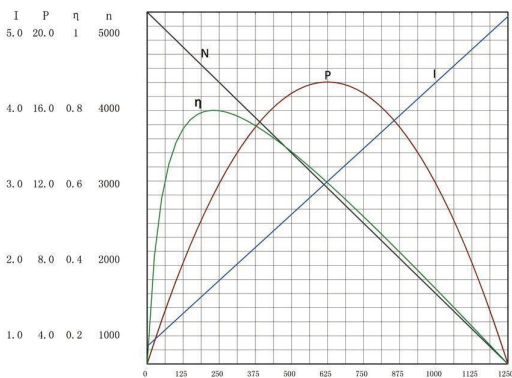


### 外形尺寸图



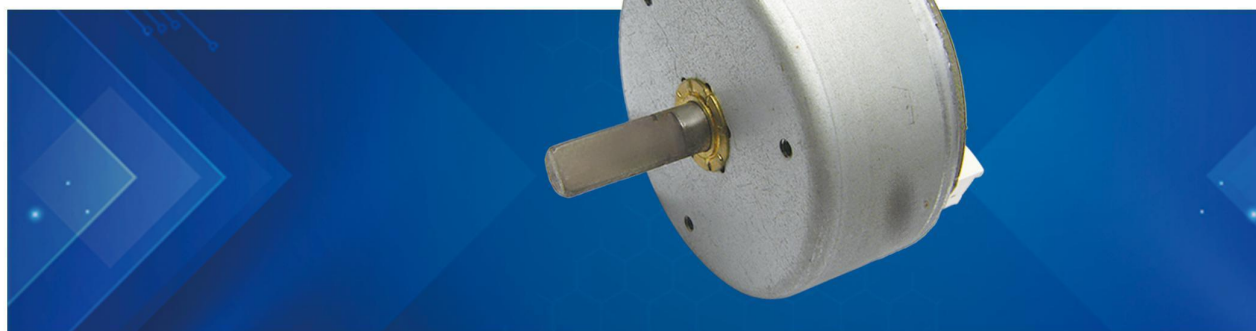
### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf·cm	电流 A	转速 rpm	电流 A	力矩 gf·cm
YD-5034	12.0	0.3	5000	200.0	1.0	4200	4.6	1250

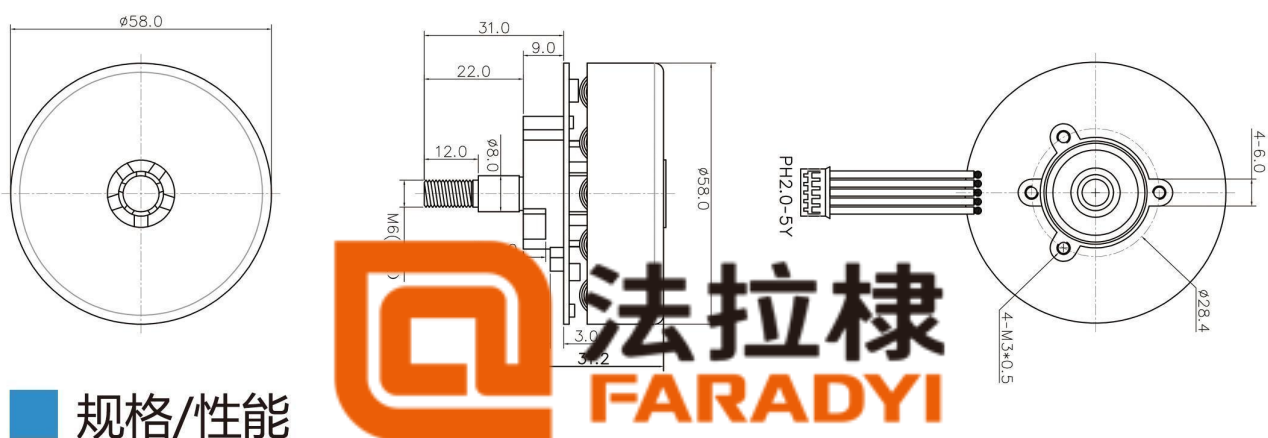


# 外转子直流无刷电机

## YD-5832

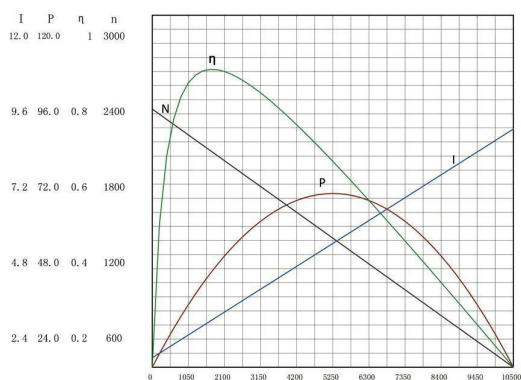


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf-cm	电流 A	转速 rpm	电流 A	力矩 gf-cm
YD-5832	24.0	0.32	2200	1050.0	1.1	1980	7.2	9100



- 红色引线: 电源正极
- 黄色引线: FG转速反馈信号
- 白色引线: 转向控制
- 黑色引线: 电源负极
- 绿色引线: PWM调速

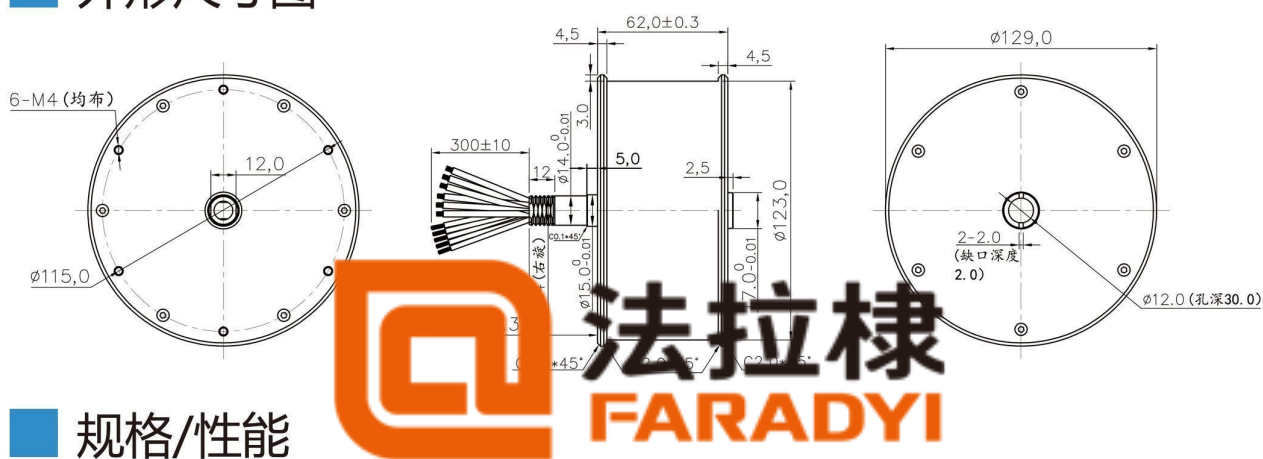


# 外转子直流无刷电机

## YD-129062

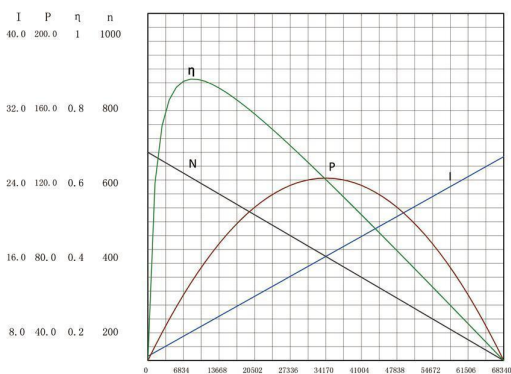


### 外形尺寸图



### 规格/性能

型号	电压 V	空载NO LOAD		负载 LOAD			堵转	
		电流 A	转速 rpm	力矩 gf·cm	电流 A	转速 rpm	电流 A	力矩 gf·cm
YD-129062	16.8	0.5	600	34170.0	12.0	300	23.5	68340





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**Faradyi Technology Co., Ltd.**