Engineered for the Critical

World's Largest Selection of Fan Products
World's Most Comprehensive Fan Solutions



LONGWELL®
Turn to Experts - HVAC&R

Ningbo Longwell Electric Technology Co., Ltd

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CE RoHS ETL BSCI ISO EAC UL LVD

LONGWELL®
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LONGWELL TECHNOLOGY

The Ventilation and Drive Technology Partner for Mission-Critical Environments



Professional Manufacturer of HVACR Fan & Motors

—— Brushless Motor

Longwell Group
Longwell-China
Longwell-USA
Longwell-Russia
Longwell-Europe

LONGWELL®
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Brushless Motor

Professional HVAC Fan &Motors Manufacturer



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Product Application Field


Air conditioner

Vacuum cleaner

Purifier

Hair dryer

Electric fan

Washing machine

Grinding machine

Electric drill

Sweep the floor machine

Polishing machine

Longwell product advantages are widely recognized and well-known enterprises in various fields to carry out strategic cooperation, product size is widely used in household appliances, electric tools, and health care instruments, such as air conditioning, electric fan, circulation fan, purifier, heater, vacuum cleaners,sweeping machine, hair dryer, polishing grinding machine, massager, etc.

Three-phase Brushless DC Motor

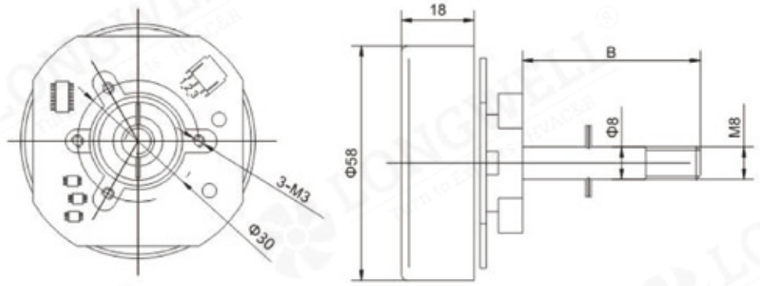
Product Characteristic

The motor has the characteristics of small volume,light weight, high efficiency, low noise, large torque, tepless speed regulation and wide speed regulation range, long life and so on. Widely used in desk fan, floor fan, air circulation fan, air purifier, air conditioner and other environmental ventilation equipment.



Technical Specifications

Model	Voltage	Input Voltage Waveform	Power	Speed Range	Position Sensor	Control Mode	Feedback Voltage	Life
LWD5818A12	DC12V	Sine wave	0-30W	0-3000RPM	/	PWM	5V	20000h
LWD5818B12	DC12V	Sine wave	0-30W	0-3000RPM	HALL	PWM	5V	20000h
LWD5818A24	DC24V	Sine wave	0-30W	0-3000RPM	/	PWM	5V	20000h
LWD5818B24	DC24V	Sine wave	0-30W	0-3000RPM	HALL	PWM	5V	20000h
LWD5818A36	DC36V	Sine wave	0-30W	0-3000RPM	/	PWM	5V	20000h
LWD5818B36	DC36V	Sine wave	0-30W	0-3000RPM	HALL	PWM	5V	20000h



Connection

PIN.NO.	Functions
1	PWM
2	GND
3	VCC

Three-phase Brushless DC Motor

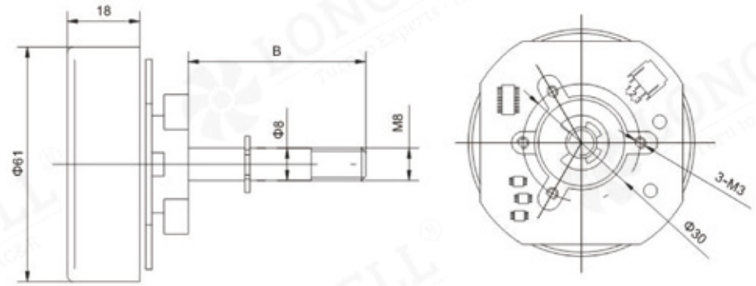
Product Characteristic

The motor has the characteristics of small volume,light weight, high efficiency, low noise, large torque,tepless speed regulation and wide speed regulation range, long life and so on. Widely used in desk fan,floor fan, air circulation fan, air purifier, air conditioner and other environmental ventilation equipment.



Technical Specifications

Model	Voltage	Input Voltage Waveform	Power	Speed Range	Position Sensor	Control Mode	Feedback Voltage	Life
LWD6218A12	DC12V	Sine wave	0-50W	0-3000RPM	/	PWM	5V	20000h
LWD6218B12	DC12V	Sine wave	0-50W	0-3000RPM	HALL	CLOCK	5V	20000h
LWD6218A24	DC24V	Sine wave	0-50W	0-3000RPM	/	PWM	5V	20000h
LWD6218B24	DC24V	Sine wave	0-50W	0-3000RPM	HALL	CLOCK	5V	20000h
LWD6218A36	DC36V	Sine wave	0-50W	0-3000RPM	/	PWM	5V	20000h
LWD6218B36	DC36V	Sine wave	0-50W	0-3000RPM	HALL	CLOCK	5V	20000h



Connection

PIN.NO.	Functions
1	PWM
2	GND
3	VCC

Three-phase Brushless DC Motor

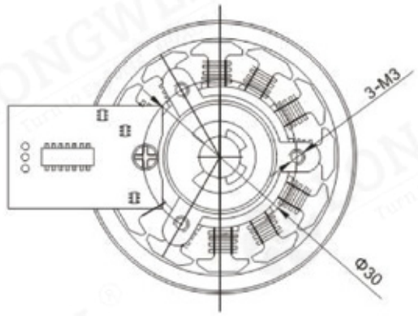
Product Characteristic

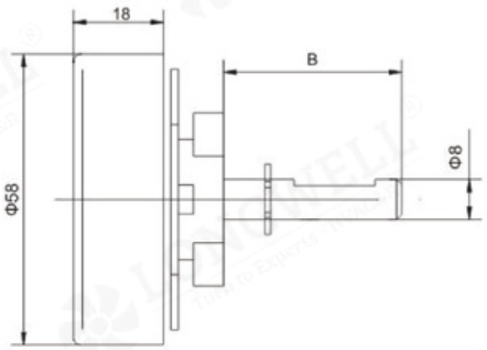
Small size, light weight, high efficiency, large torque, low noise, stepless speed and wide speed range, long life and other characteristics of the motor. Widely used in climbing fans, industrial fans, ventilation fans, power tools and ather equipment.



Technical Specifications

Model	Voltage	Input Voltage Waveform	Power	Speed Range	Position Sensor	Control Mode	Feedback Voltage	Life
LWD5818A12	DC12V	Sine wave	0-50W	0-3000RPM	/	/	5V	10000h
LWD5818A24	DC24V	Sine wave	0-50W	0-3000RPM	/	/	5V	10000h
LWD6218A12	DC12V	Sine wave	0-50W	0-3000RPM	/	/	5V	10000h
LWD6218A24	DC24V	Sine wave	0-50W	0-3000RPM	/	/	5V	10000h
LWD6218A36	DC36V	Sine wave	0-50W	0-3000RPM	/	/	5V	10000h





Three-phase Brushless DC Motor

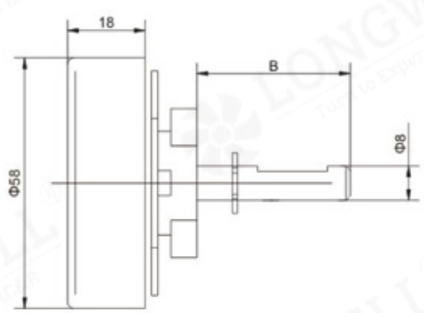
Product Characteristic

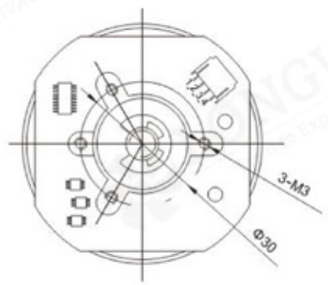
Small size, light weight, high efficiency, large torque, low noise, stepless speed and wide speed range, long life and other characteristics of the motor. Widely used in fascia gun,air circulation fan, air purifier, air conditioner,polishing machine and other equipment.



Technical Specifications

Model	Voltage	Input Voltage Waveform	Power	Speed Range	Position Sensor	Control Mode	Feedback Voltage	Life
LWD5218A12	DC12V	Sine wave	0-50W	0-3000RPM	HALL	CLOCK	5V	10000h
LWD5218A24	DC24V	Sine wave	0-50W	0-3000RPM	HALL	CLOCK	5V	10000h
LWD5818A12	DC12V	Sine wave	0-50W	0-3000RPM	HALL	CLOCK	5V	10000h
LWD5818A24	DC24V	Sine wave	0-50W	0-3000RPM	HALL	CLOCK	5V	10000h
LWD5818A36	DC36V	Sine wave	0-50W	0-3000RPM	HALL	CLOCK	5V	10000h





Connection

PIN.NO.	Functions
1	PWM
2	GND
3	VCC
4	FG

Three-phase Brushless DC Motor

Product Characteristic

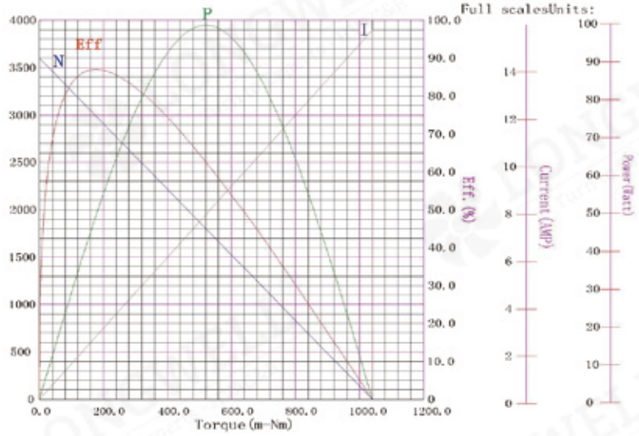
The motor has the characteristics of small volume,light weight, high efficiency, low noise, large torque,stepless speed regulation and wide speed regulation range, long life and so on. Widely used in household vacuum cleaner, sweeper.



Technical Specifications

- The operating voltage of the motor is 0-48V
- Rated Power: 0-500W
- Rated Speed: 0-150000RPM
- Position Induction: HALL sensor
- Control Mode: CLOCK control
- Service Life: More than 5000h

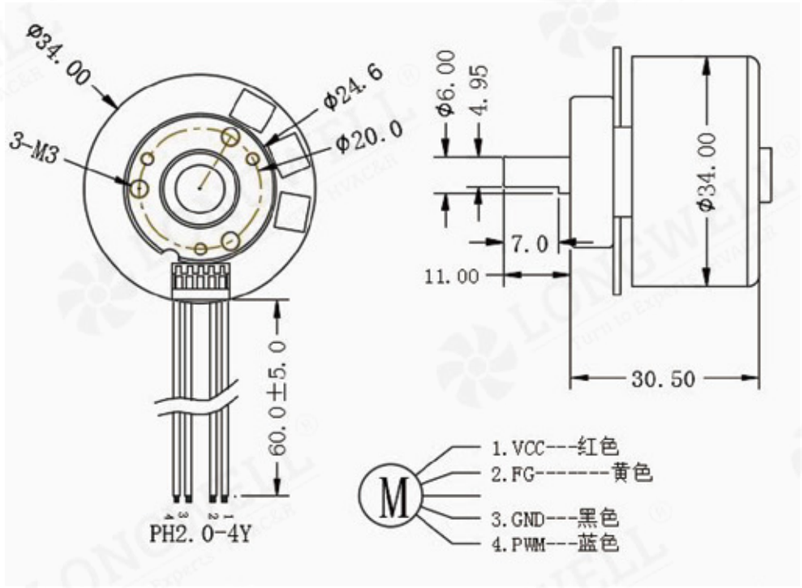
Brushless DC Motor(Φ34×30mm)



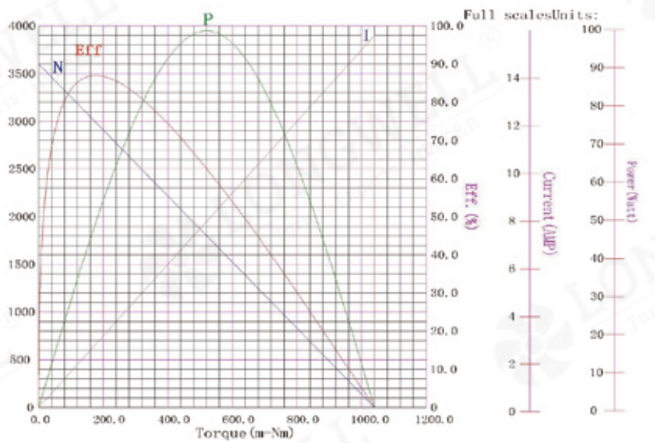


Technical Specifications

Model	Rated Voltage	No Load Current	No Load Speed	No Load Power	Torque
LW3430	DC12V	0.11A	3400RPM	1.36W	50mN.m



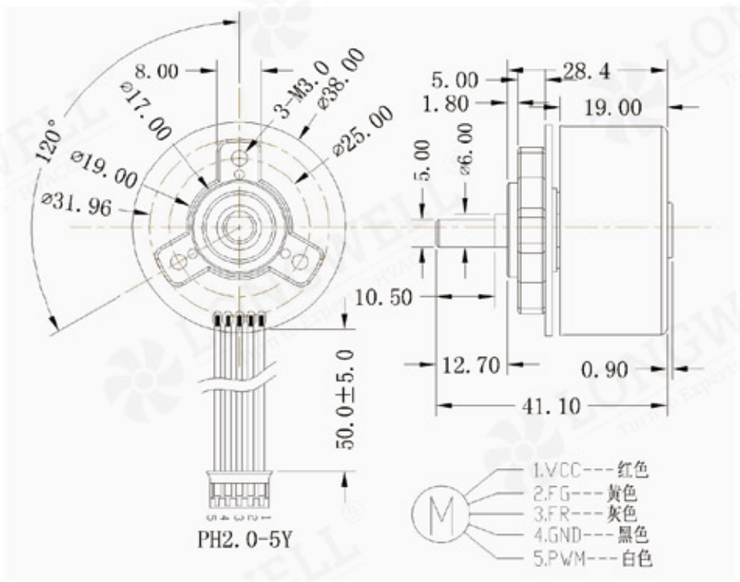
Brushless DC Motor(Φ38×25mm)



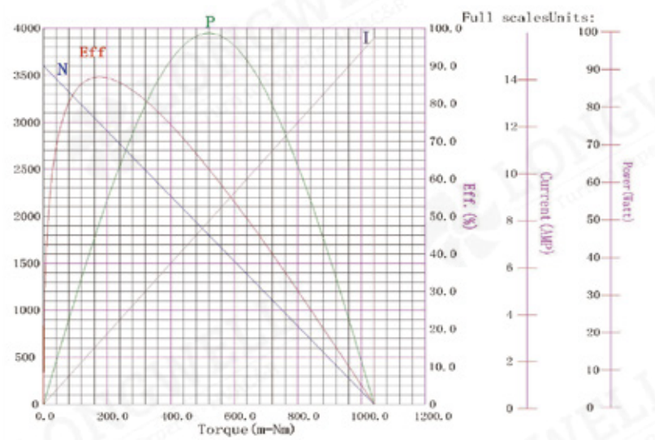


Technical Specifications

Model	Rated Voltage	No Load Current	No Load Speed	No Load Power	Torque
LW3825	DC12V	0.30A	6000RPM	3.60W	50mN.m
	DC24V	0.17A	4000RPM	4.10W	50mN.m



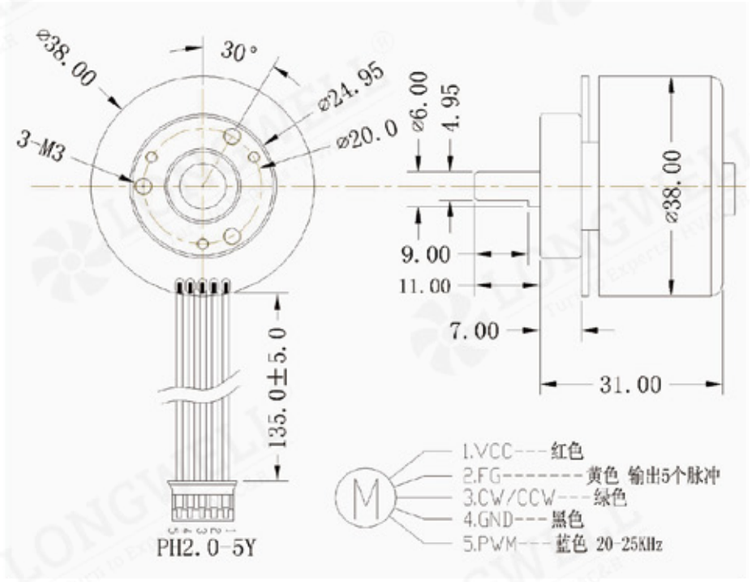
Brushless DC Motor(Φ38×25mm)





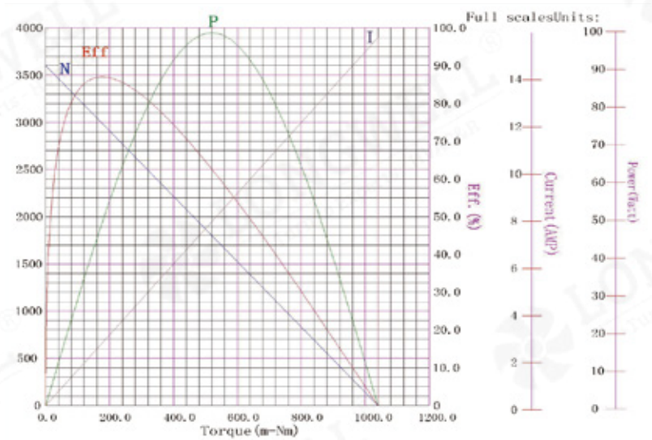
Technical Specifications

Model	Rated Voltage	No Load Current	No Load Speed	No Load Power	Torque
LW3825	DC12V	0.30A	6000RPM	3.60W	50mN.m
	DC24V	0.17A	4000RPM	4.10W	50mN.m



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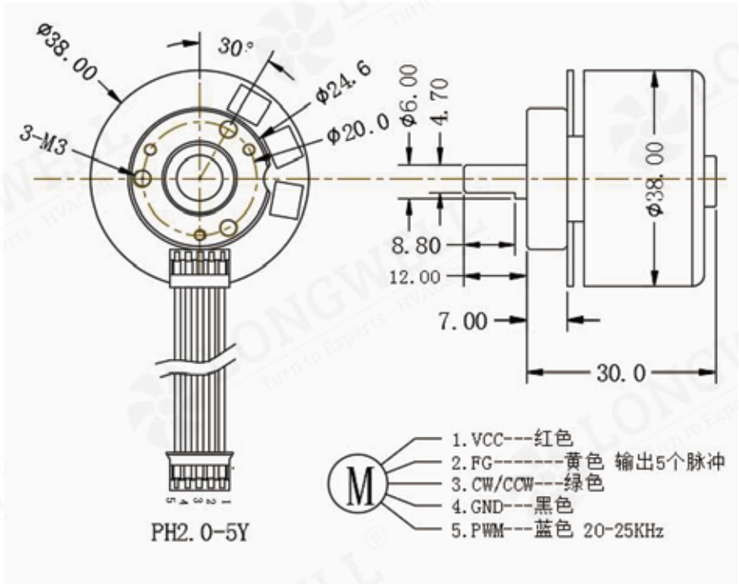
Brushless DC Motor(Φ38×30mm)



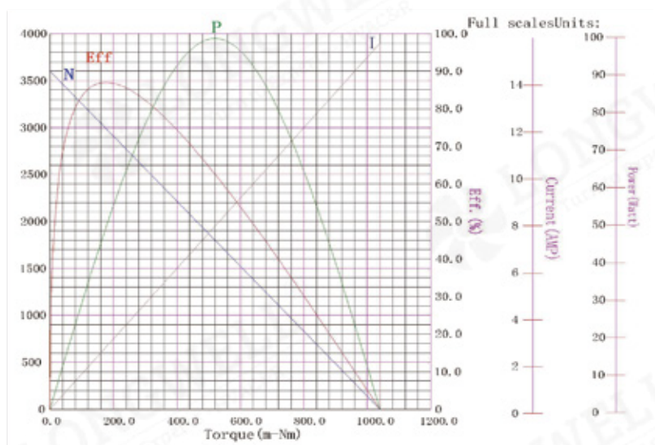


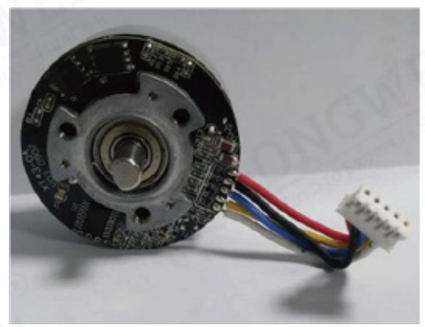
Technical Specifications

Model	Rated Voltage	No Load Current	No Load Speed	No Load Power	Torque
LW3830	DC12V	0.12A	3500RPM	1.44W	50mN.m



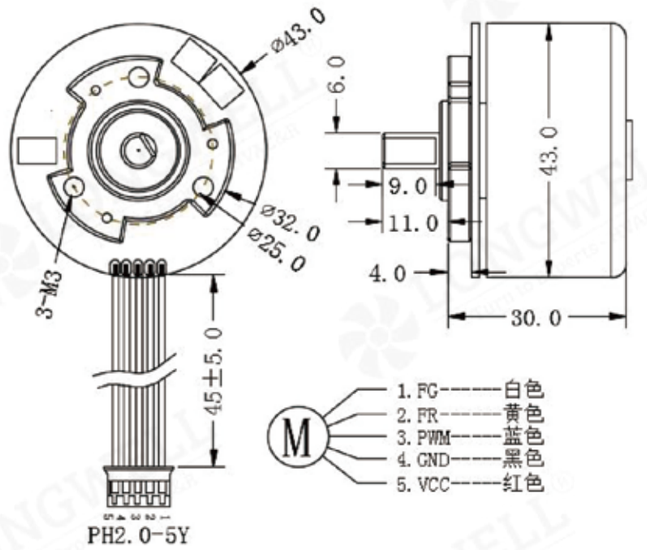
Brushless DC Motor(Φ43×25mm)





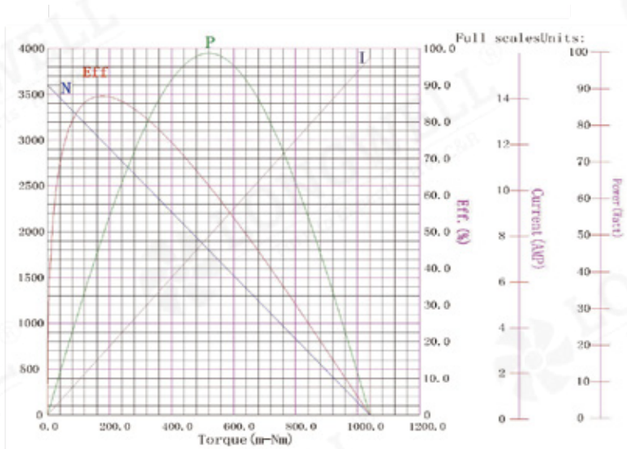
Technical Specifications

Model	Rated Voltage	No Load Current	No Load Speed	No Load Power	Torque
LW4325	DC12V	0.18A	3500RPM	2.16W	60mN.m



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Brushless DC Motor(Φ43×30mm)

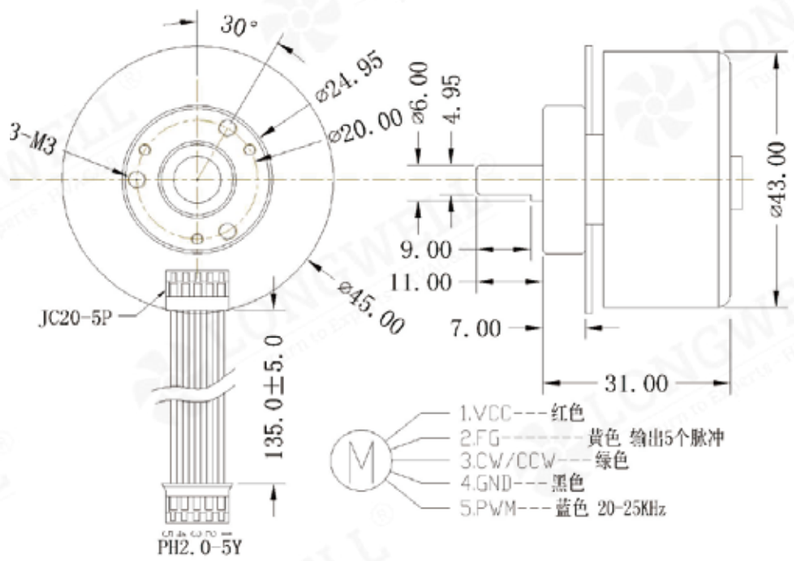




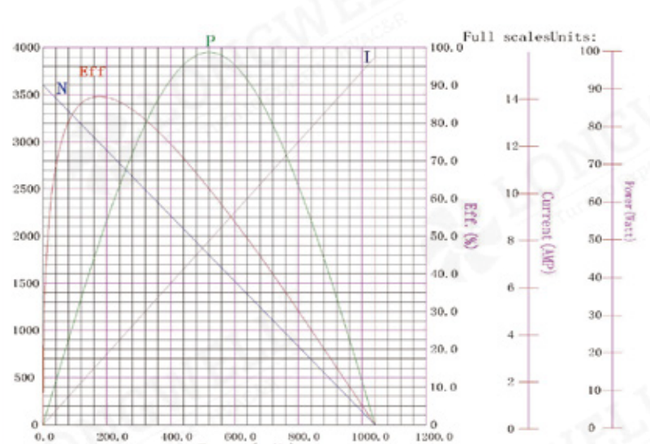


Technical Specifications

Model	Rated Voltage	No Load Current	No Load Speed	No Load Power	Torque
LW4330	DC12V	0.30A	3500RPM	3.60W	60mN.m



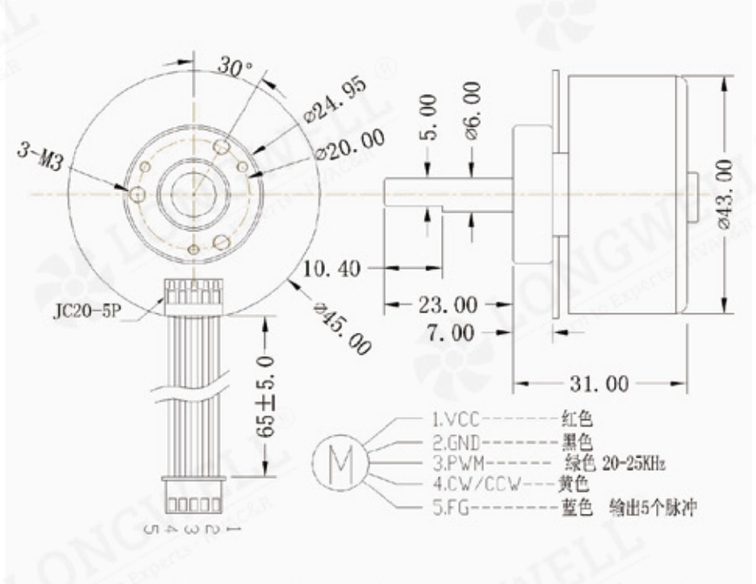
Brushless DC Motor(Φ43×30mm)





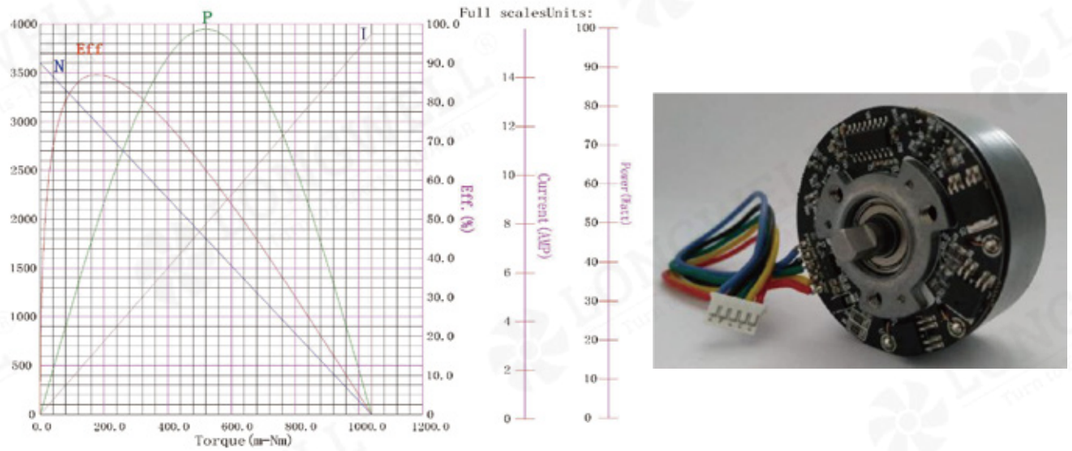
Technical Specifications

Model	Rated Voltage	No Load Current	No Load Speed	No Load Power	Torque
LW4325	DC12V	0.30A	3500RPM	3.60W	60mN.m



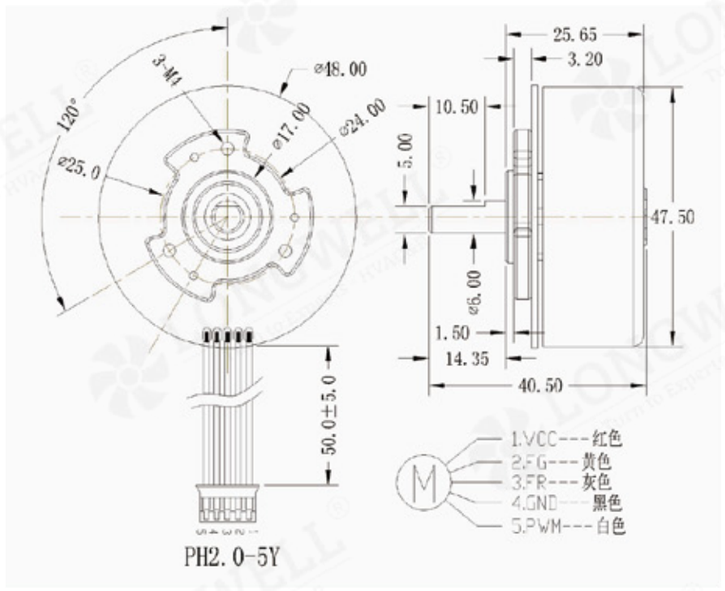
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Brushless DC Motor(Φ48×25mm)

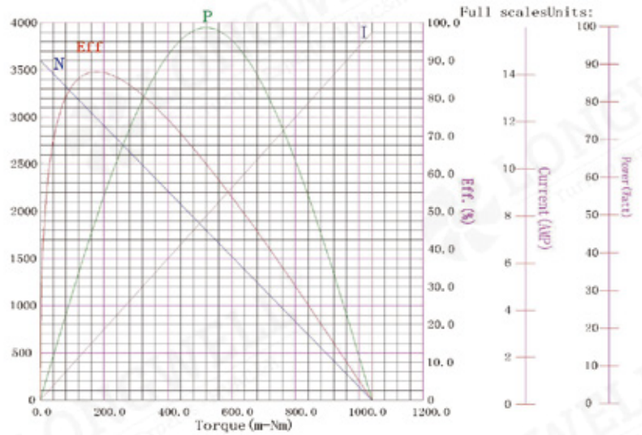


Technical Specifications

Model	Rated Voltage	No Load Current	No Load Speed	No Load Power	Torque
LW4825	DC12V	0.35A	3500RPM	4.20W	70mN.m
	DC24V	0.17A	3500RPM	4.10W	70mN.m



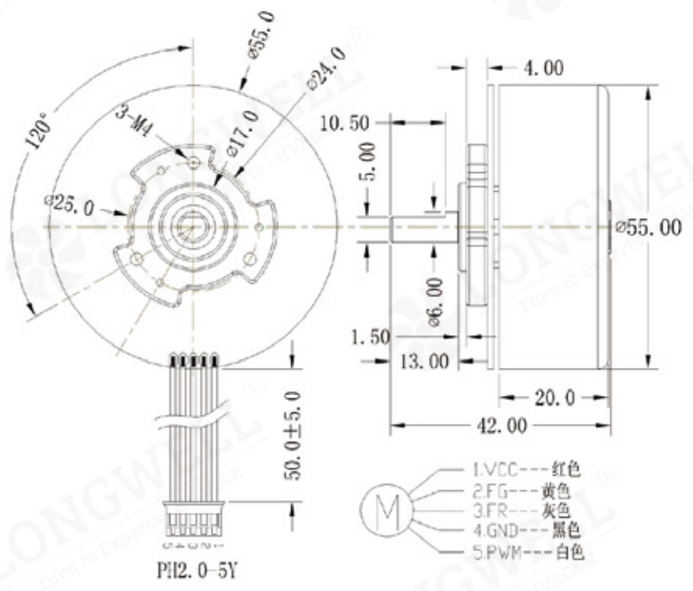
Brushless DC Motor(Φ55×20mm)



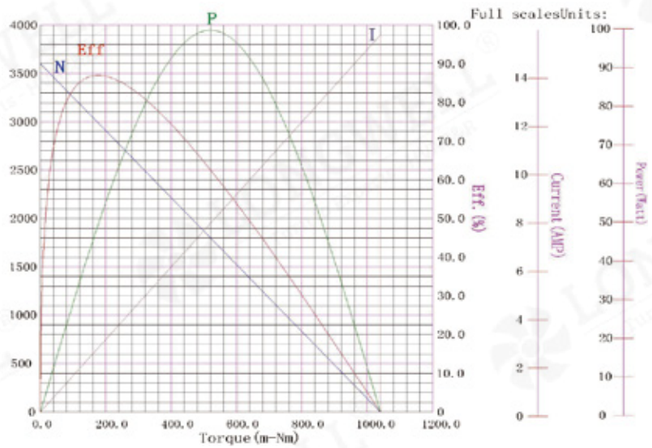


Technical Specifications

Model	Rated Voltage	No Load Current	No Load Speed	No Load Power	Torque
LW5520	DC12V	0.35A	3500RPM	4.20W	80mN.m
	DC24V	0.17A	3500RPM	4.10W	80mN.m



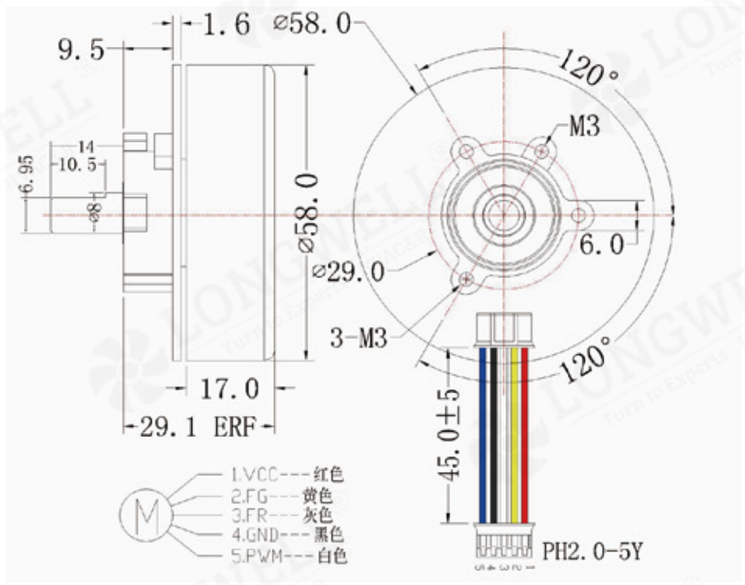
Brushless DC Motor(Φ58×30mm)



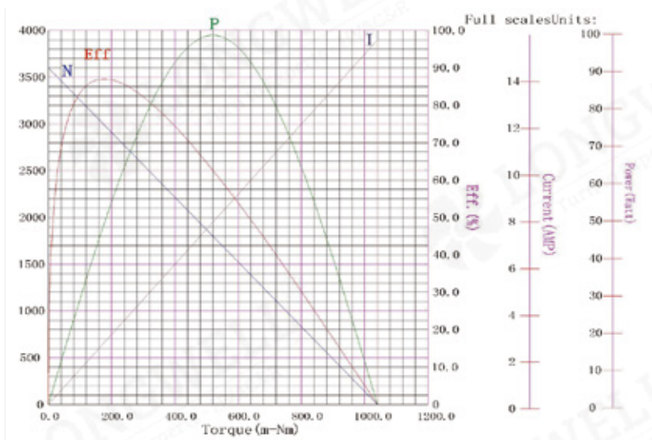


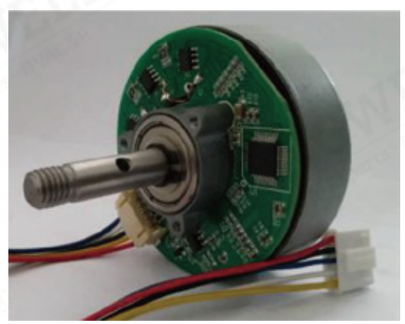
Technical Specifications

Model	Rated Voltage	No Load Current	No Load Speed	No Load Power	Torque
LW5830	DC12V	0.35A	3500RPM	4.20W	80mN.m
	DC24V	0.17A	3500RPM	4.10W	80mN.m



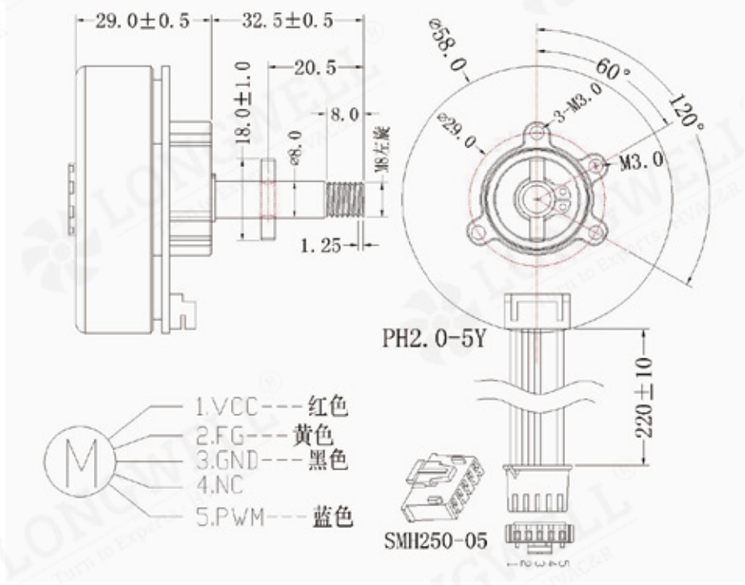
Brushless DC Motor(Φ58×30mm)





Technical Specifications

Model	Rated Voltage	No Load Current	No Load Speed	No Load Power	Torque
LW5830	DC12V	0.35A	3500RPM	4.20W	80mN.m
	DC24V	0.17A	3500RPM	4.10W	80mN.m



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Brushless DC Motor

Professional HVAC Fan &Motors Manufacturer



Type Code

LW BDM 30 L - 01

- 01 — Series number
- L — T-380VAC S-230VAC U-115V L-12VDC M-24VDC J-36VDC H-48VDC Z-310VDC
- 30 — 30 series
- BDM — Brushless DC motor
- LW — LW-Longwell

High Speed Brushless DC Motor

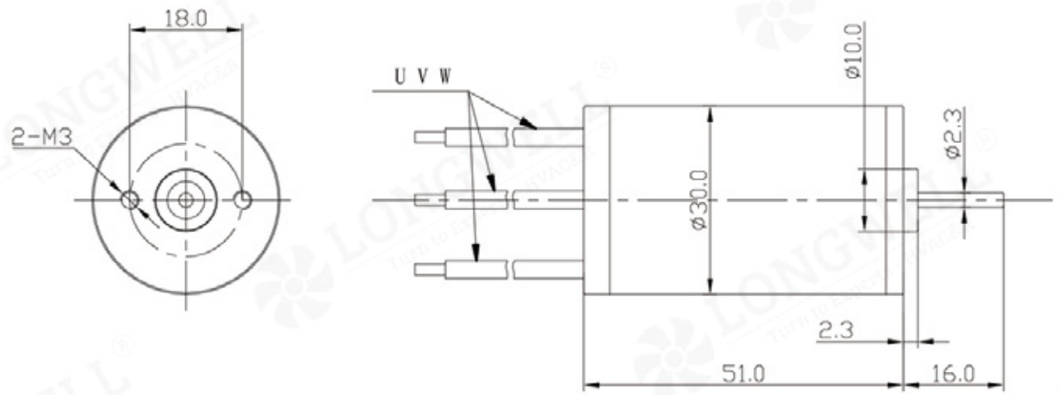


Product Characteristic

- Application: Fishing tackle reel motor,Household appliance,Automation equipment
- Feature: High speed,High efficiency,Low voltage,Small volume,Customizable production

Technical Specifications

Model	Voltage	No Load Speed	No Load Current	Rated Load Torque	Rated Load Speed	Rated Load Current	Rated Load Output Power	Insulation Class
LWBDM-30L-01	DC12V	35000RPM	3A	37mN.m	25300RPM	12A	100W	E



Brushless DC Motor

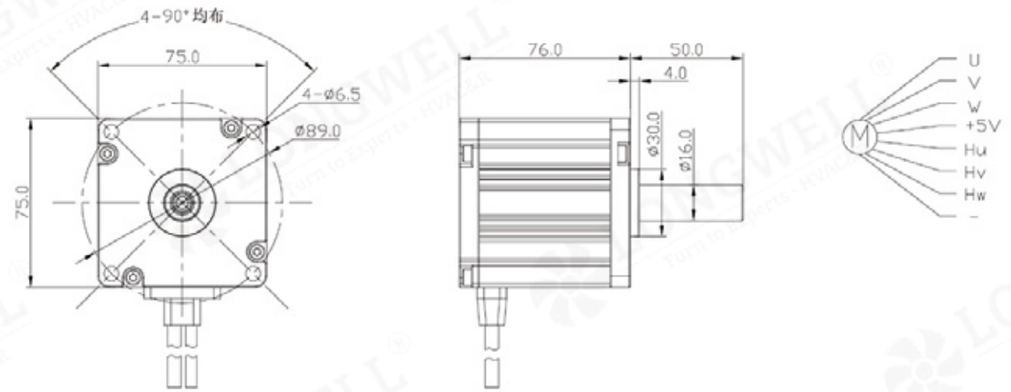


Product Characteristic

- Application: Automation Equipment,Textile machinery
- Feature: High speed,High efficiency,Small volume,Customizable production

Technical Specifications

Model	Voltage	No Load Speed	No Load Current	Rated Load Torque	Rated Load Speed	Rated Load Current	Rated Load Output Power	Insulation Class
LWBDM-70S-01	DC230V	30000RPM	0.8A	40mN.m	25000RPM	1.5A	100W	B



Brushless DC Motor

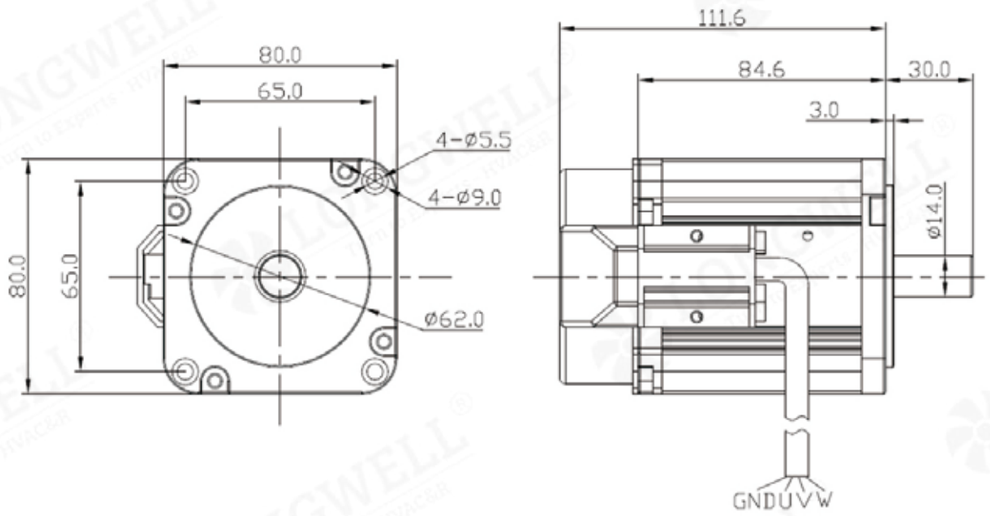


Product Characteristic

- Application: Automation equipment,Textile machinery
- Feature: High speed,High efficiency,Long life,Small volume,Customizable production

Technical Specifications

Model	Voltage	No Load Speed	No Load Current	Rated Load Torque	Rated Load Speed	Rated Load Current	Rated Load Output Power	Insulation Class
LWBDM-76S-01	DC220V	12500RPM	0.7A	0.8mN.m	2100RPM	1.7A	180W	F
LWBDM-76S-02	DC230V	5500RPM	0.5A	1mN.m	3500RPM	3A	350W	F
LWBDM-76S-03	DC230V	12000RPM	0.8A	0.2mN.m	9000RPM	1.5A	188W	F



Brushless DC Motor

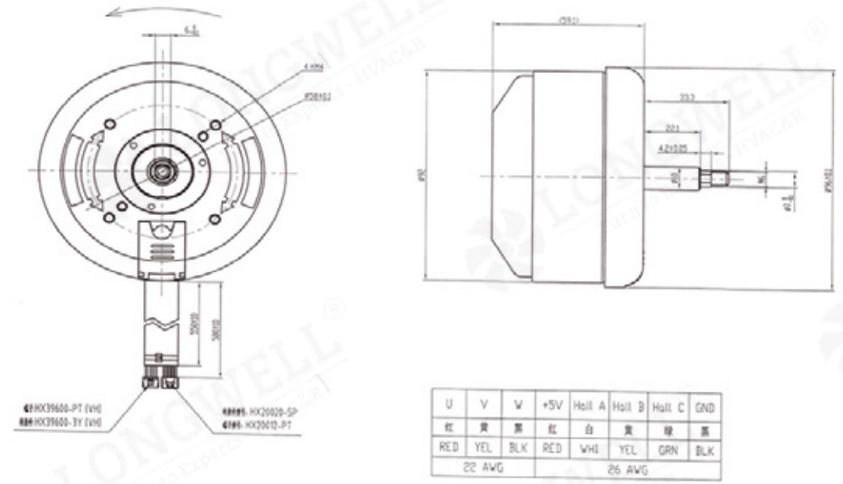


Product Characteristic

- Application: Industrial automation device
- Feature: Outer rotor,High torque,Low noise,Precision control,Customizable production

Technical Specifications

Model	Voltage	No Load Speed	No Load Current	Rated Load Torque	Rated Load Speed	Rated Load Current	Rated Load Output Power	Insulation Class
LWBDM-80S-01	DC230V	9800RPM	0.6A	0.12mN.m	4000RPM	0.7A	50W	F



U	V	W	+5V	Hall A	Hall B	Hall C	GND
红	黄	黑	红	白	黄	绿	黑
RED	YEL	BLK	RED	WHI	YEL	GRN	BLK
22 AWG			26 AWG				

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Brushless DC Motor

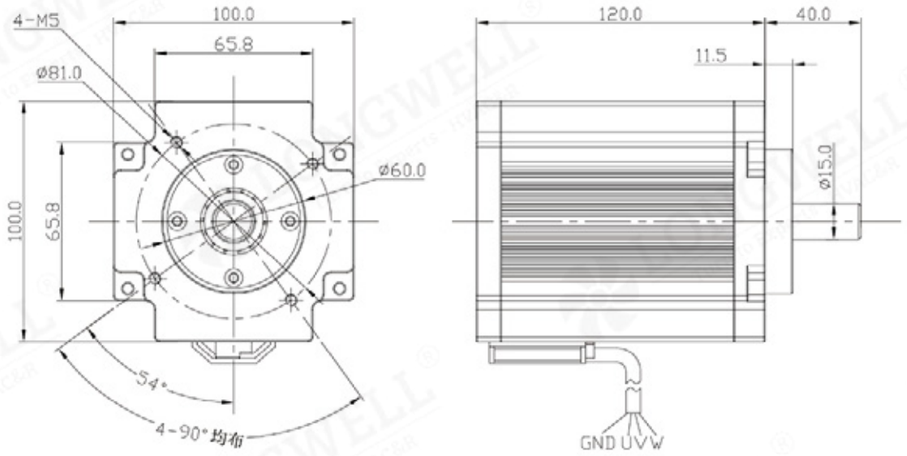


Product Characteristic

- Application: Automation equipment,Textile machinery
- Feature: High efficiency,Long life,Customizable production

Technical Specifications

Model	Voltage	No Load Speed	No Load Current	Rated Load Torque	Rated Load Speed	Rated Load Current	Rated Load Output Power	Insulation Class
LWBDM-90S-01	DC230V	4500RPM	0.8A	2mN.m	3100RPM	5.3A	650W	F
LWBDM-90S-02	DC230V	6000RPM	1.2A	2mN.m	4000RPM	6.3A	830W	F
LWBDM-90S-03	DC230V	4000RPM	1.2A	2.6mN.m	3000RPM	6.9A	1000W	F



Low Voltage Brushless DC Motor

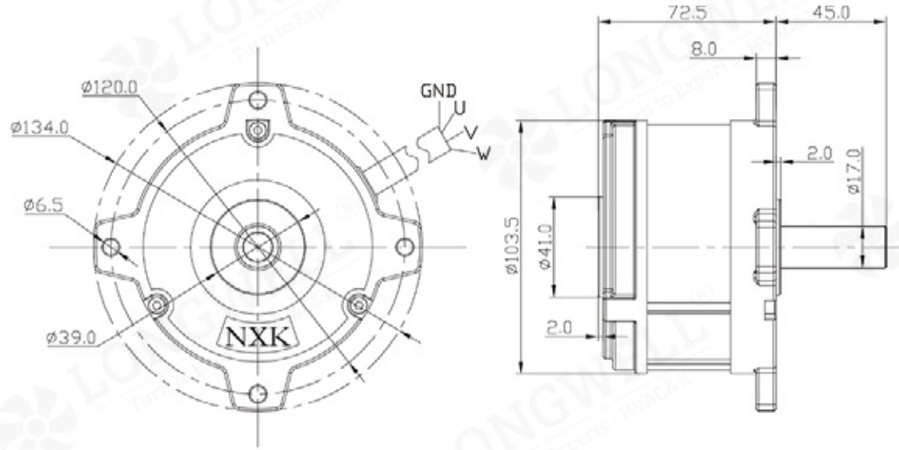


Product Characteristic

- Application: Lawn mower,Grinding machinery,Automatic equipment
- Feature: High speed,Environmental protection,Safety,Long life

Technical Specifications

Model	Voltage	No Load Speed	No Load Current	Rated Load Torque	Rated Load Speed	Rated Load Current	Rated Load Output Power	Insulation Class
LWBDM-100H-01	DC48V	5500RPM	2.5A	1mN.m	5500RPM	13A	500W	F
LWBDM-100J-02	DC36V	1500RPM	1A	1.6mN.m	1500RPM	7.5A	250W	F
LWBDM-100U-03	DC110V	1500RPM	0.7A	1.6mN.m	1500RPM	5.2A	250W	F
LWBDM-100S-04	DC230V	1500RPM	0.5A	1.6mN.m	1500RPM	2.5A	250W	F
LWBDM-100S-05	DC230V	5000RPM	1A	1.5mN.m	4500RPM	6A	700W	F



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Brushless EC Motor



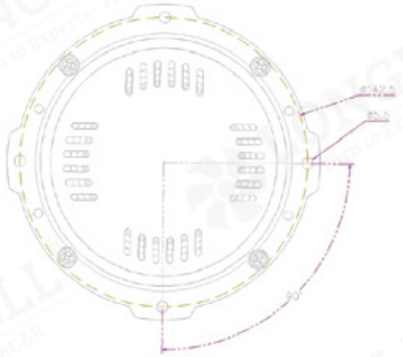


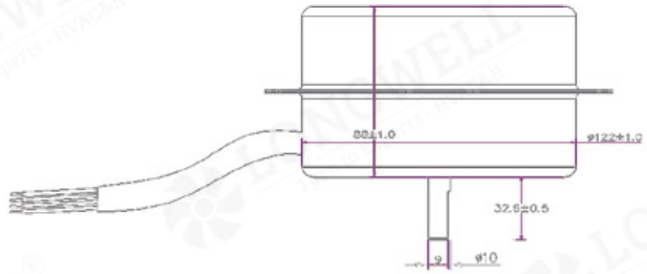
Product Characteristic

- Material: Base is made of aluminum,Shaft is made of stainless steel
- Type of Protection: IP44
- Motor Insulation Class: F
- Direction of Rotation: Clockwise,See on the impeller
- Approvals: CE/CCC
- Amb.Temp: -20℃~+60℃
- Bearinge: Two ball bearings
- Application: Air conditioner/Fan/Cylinder fan/Drum Fan
- Technical Features: Control input 0~10VDC/PWM,Tach output
- Protection: Locked-rotor protection,Current limited, Under-voltage and over-voltage lockout protection,soft start

Technical Specifications

Model	Rated Voltage (V)	Operating Voltage (V)	Input Power (W)	Rated Speed (RPM)	Direction of Rotation (CW/CCW)
LWE-092025S-01	220	200-260	0-120	1400-1500	CW





Brushless EC Motor

Product Characteristic

- Material: Exterior casing is made of Polypropy lene
- Type of Protection: IP42
- Motor Insulation Class: F
- Direction of Rotation: Clockwise,See on the impeller
- Approvals: CE/CCC
- Amb.Temp: -20℃~+60℃
- Bearinge: Two ball bearings
- Application: Business fan/Wall-mounted fan/Horn fan
- Technical Features: Control input 0~10VDC/PWM,Tach output
- Protection: Locked-rotor protection,Current limited, Under-voltage and over-voltage lockout protection,soft start



Technical Specifications

Model	Rated Voltage (V)	Operating Voltage (V)	Input Power (W)	Rated Speed (RPM)	Direction of Rotation (CW/CCW)
LWE-092025S-02	220	200-270	3.5-90	1300	CW
LWE-092025S-03	220	200-270	15-115/150	1300	CW



Brushless EC Motor

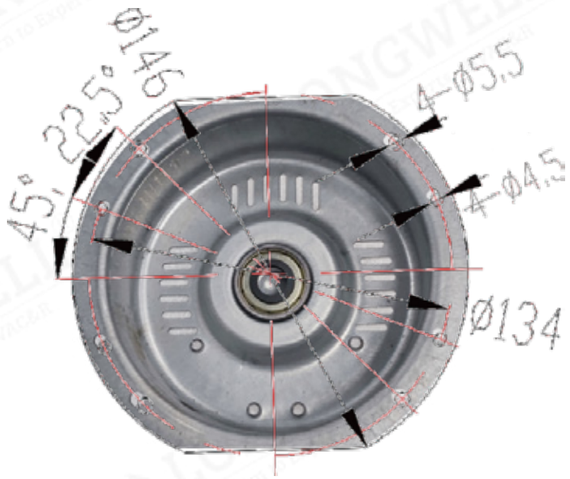
Product Characteristic

- Material: Base is made of iron material,Shaft is made of stainless steel
- Type of Protection: IP42
- Motor Insulation Class: F
- Direction of Rotation: Clockwise,See on the impeller
- Approvals: CE/CCC
- Amb.Temp: -20℃~+60℃
- Bearinge: Two ball bearings
- Application: Air conditioner/Fan/Cylinder fan/Drum Fan
- Technical Features: Control input 0~10VDC/PWM,Tach output
- Protection: Locked-rotor protection,Current limited, Under-voltage and over-voltage lockout protection,soft start



Technical Specifications

Model	Rated Voltage (V)	Operating Voltage (V)	Input Power (W)	Rated Speed (RPM)	Direction of Rotation (CW/CCW)
LWE-092025S-04	220	200-270	3.5-90	1300	CW
LWE-092025S-05	220	200-270	15-115/150	1300	CW





Brushless EC Motor

Product Characteristic

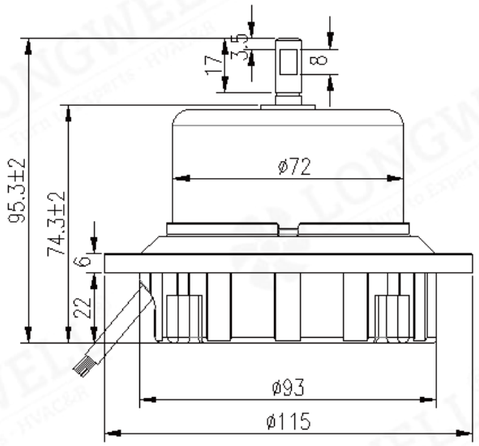
- Material: Base is made of aluminum,Shaft is made of stainless steel
- Type of Protection: IP42
- Motor Insulation Class: F
- Direction of Rotation: CW/CCW
- Approvals: CE/CCC
- Amb.Temp: -20℃~+60℃
- Bearinge: Two ball bearings
- Application: Centrifugal fan/Air curtain/Cross flow fan/Air conditioner
- Technical Features: Control input 0~10VDC/PWM,Tach output
- Protection: Locked-rotor protection,Current limited, Under-voltage and over-voltage lockout protection,soft start

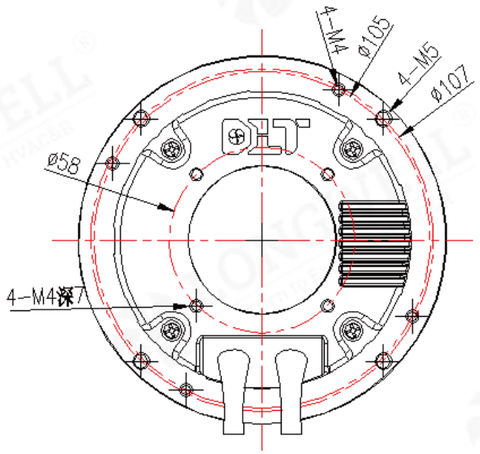




Technical Specifications

Model	Rated Voltage (V)	Operating Voltage (V)	Input Power (W)	Rated Speed (RPM)	Direction of Rotation (CW/CCW)
LWE-072022S-01	220	80-280	0-120	350-4000	CW/CCW
LWE-072022U-02	110	70-160	0-100	350-4000	CW/CCW





Brushless EC Motor

Product Characteristic

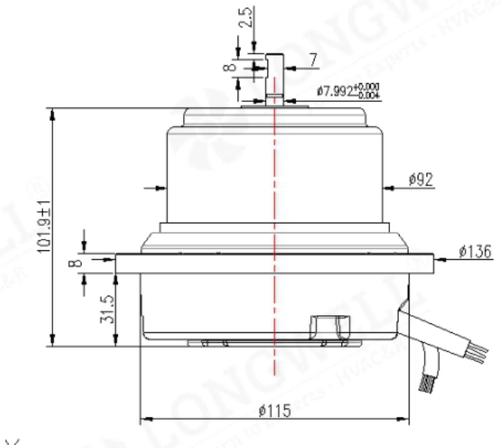
- Material: Base is made of aluminum,Shaft is made of stainless steel
- Type of Protection: IP42
- Motor Insulation Class: F
- Direction of Rotation: CW/CCW
- Approvals: CE/CCC
- Amb.Temp: -20℃~+60℃
- Bearinge: Two ball bearings
- Application: Centrifugal fan/Air curtain/Cross flow fan/Air conditioner
- Technical Features: Control input 0~10VDC/PWM,Tach output
- Protection: Locked-rotor protection,Current limited, Under-voltage and over-voltage lockout protection,soft start

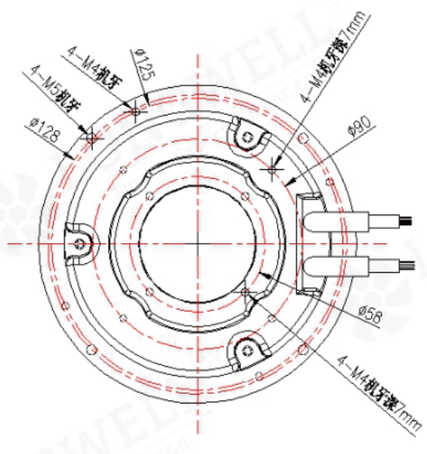




Technical Specifications

Model	Rated Voltage (V)	Operating Voltage (V)	Input Power (W)	Rated Speed (RPM)	Direction of Rotation (CW/CCW)
LWE-092025S-06	220	80-280	0-200	350-4000	CW/CCW
LWE-092025U-07	110	70-160	0-160	350-4000	CW/CCW





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Product Characteristic

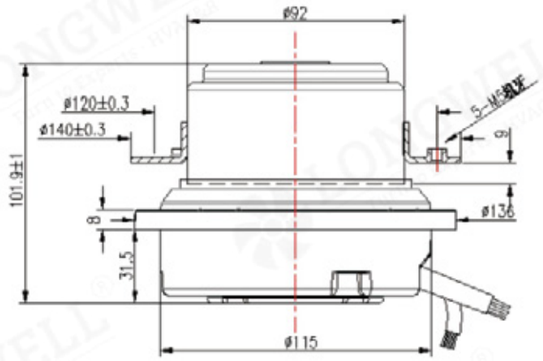
- Material: Base is made of aluminum,Shaft is made of stainless steel
- Type of Protection: IP42
- Motor Insulation Class: F
- Direction of Rotation: CW/CCW
- Approvals: CE/CCC
- Amb.Temp: -20℃~+60℃
- Bearinge: Two ball bearings
- Application: Centrifugal fan/Air curtain/Cross flow fan/Air conditioner
- Technical Features: Control input 0~10VDC/PWM,Tach output
- Protection: Locked-rotor protection,Current limited, Under-voltage and over-voltage lockout protection,soft start

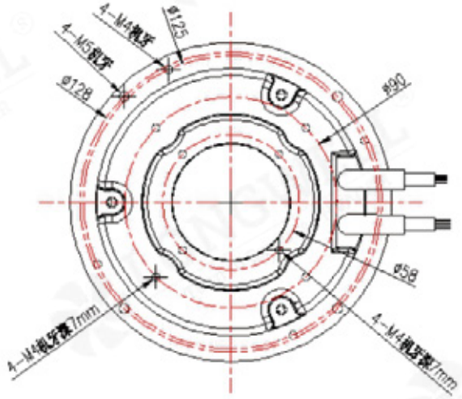




Technical Specifications

Model	Rated Voltage (V)	Operating Voltage (V)	Input Power (W)	Rated Speed (RPM)	Direction of Rotation (CW/CCW)
LWE-092025S-08	220	80-280	0-200	350-4000	CW/CCW
LWE-092025U-09	110	70-160	0-160	350-4000	CW/CCW





Brushless EC Motor

Product Characteristic

- Material: Base is made of aluminum,Shaft is made of stainless steel
- Type of Protection: IP42
- Motor Insulation Class: F
- Direction of Rotation: CW/CCW
- Approvals: CE/CCC
- Amb.Temp: -20℃~+60℃
- Bearinge: Two ball bearings
- Application: Centrifugal fan/Air curtain/Cross flow fan/Air conditioner
- Technical Features: Control input 0~10VDC/PWM,Tach output
- Protection: Locked-rotor protection,Current limited, Under-voltage and over-voltage lockout protection,soft start





Technical Specifications

Model	Rated Voltage (V)	Operating Voltage (V)	Input Power (W)	Rated Speed (RPM)	Direction of Rotation (CW/CCW)
LWE-102040S-01	220	80-280	0-450	350-3500	CW/CCW
LWE-102040U-02	110	70-160	0-300	350-3500	CW/CCW

