

 **Drive The World** 

DIRECT DRIVE MOTOR PRODUCT BROCHURE

Direct Drive Precision Actuator Expert



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Direct Drive Tech as a company specializing in the R&D and production of robot power modules, Direct Drive Technology is committed to using direct drive actuators to replace the reduction gears in any machine, making the original delicate and noisy traditional robot reborn. We have a complete set of technologies for robot joints from sensors, drivers to motor bodies. Various choices are enabled by the unique direct drive solutions, providing outstanding performance. Direct Drive Tech is primarily focused on solutions for home care robots, industrial/commercial robots, Gym facilities and many other areas. Direct Drive Tech using unique direct drive precise&powerful motion solution ,thereby dedicated to help many other industries to boost different products.

Direct Drive Tech is ability to make direct drive motors smaller and more durable is more than a single competitive edge. Rather, it opens up the possibility of explosive innovation in consumer products, just as the shrinking of the components of large computers gave rise to micro-computers and laptops, leading to social, cultural and technological changes.

In the research and development of robotics, Direct Drive Tech has successively released two wheeled-leg robots: Diablo and TITA.

The two robots are employed in smart parks, mines, and diverse intricate industrial settings for efficient inspections, cargo transportation, data acquisition, scanning, mapping, and more. Direct Drive Tech launched a new intelligent robots inspection solution, designed a series of solutions for dangerous, urgent and repetitive tasks, and provided efficient guarantee for system construction, operation and maintenance and other work. When performing special and high-risk environment operations, using the robots instead of personnel will make the task safer. Additionally, they are extensively utilized by universities, research facilities, and other organizations for educational, scientific, and robot Competition.

The two Robots has a reasonable cost and can be mass-produced. In the future, it can achieve the ultimate vision of being used by thousands of households.



Professional Solutions

We have more specialized application knowledge and can modify or customize a more suitable solution based on the customer's product portfolio, providing a better foundation for product design.



Outstanding Team

We are a technology-driven team. Most of the company's R&D personnel come from highly educated talents from domestic and foreign institutions of higher learning such as the University of Hong Kong, Hong Kong University of Science and Technology, Xi'an Jiaotong University, Harbin Institute of Technology, and Zhejiang University, as well as industry experts from well-known companies such as DJI, Luo Axis,BYD,XIAOMI and IBM.



Excellent Location

Our production and R&D facility is in Dongguan, China, with natural production and manufacturing advantages. This advantage can speed up our delivery process and supply anytime and anywhere according to our customers' needs.



Professional Certification

Gold Medal of Geneva International Invention Exhibition, Gold Medal at Invention Asia 2019, Gold Medal of Dare To Change Business Pitch Competition, Participated in drafting a number of mobile robot industry standards.

190+
Patents

50+
Trademarks



Solution Capabilities

Direct Drive Tech has a full set of R&D, design and production technology from sensors, drivers to motor bodies. Provides customers with a complete set of solutions from demand customization, market research, design, testing and verification, batch delivery, and quality control management.

Direct Drive Tech has the production, development and design finalization capabilities, making it easier to complete comprehensive monitoring and strict control from materials, manufacturing to finished products. irect Drive Tech has a quality management team rich in motors to solve various quality problems quickly, accurately and in a closed-loop manner, helping users to continuously improve their products, meet customer usage requirements, and ensure that the product yield rate exceeds the level of the motor industry.



Direct Drive Tech has a R&D and technical team of nearly 100 people. Customer needs, market research and solution design stages, we can respond quickly and form a special project team, go deep into customer scenarios, and conduct a comprehensive analysis of customer needs in terms of market, product definition, technology, etc. , providing scientific and rational solutions, further detailing and pictorializing various inspection operation guidance documents, detailing and specializing various quality control record forms, and continuing regular spot inspections and first inspections. Help customers achieve all-round product design and finalization process.



In the actual testing and verification phase of the product, Direct Drive Tech has complete development and testing equipment, including 9 motor performance test systems with different ranges, providing measurement functions of motor voltage, current, power, torque, speed, and efficiency. Equipped with advanced oscilloscopes, electronic loads, high-voltage differential probes and other equipment for hardware board-level power supply and signal integrity testing; at the same time, a professional test verification center has been established and an experienced team has been recruited to help customers truly achieve product quality The test covers all aspects of environmental reliability, electromagnetic compatibility, safety regulations, hardware white box, software functions, hardware functions, scenarios, etc. to meet the customized development needs of more customers.



In the product batch delivery stage, Direct Drive Tech not only has a streamlined and complete process flow, but also has a high degree of semi-automation of the production line, and the production line can achieve rapid switching and duplication, which provides guarantee for its batch delivery.

In the quality control management, the production system has been digitized, thereby improving the efficiency of production line replacement and maintenance. For example, through the ERP system and MES system, it can visualize production management and query order plans, production status, FPY status, production abnormality analysis reports, etc. anytime and anywhere, thus greatly avoiding problems such as maintenance shutdowns.

DIRECT DRIVE MOTOR SERIES

04 DIRECT DRIVE MOTOR SERIES

The Direct Drive Motor is a high-reliability permanent magnet synchronous motor based on the integrated development concept that integrates an external rotor brushless motor, an encoder, and a servo drive. Direct Drive Tech has M06, M07, M09, M11, M15, and G11 etc. series; which can be widely used in robots, AGV platforms, automation equipment and other fields. The unique motor design, and the use of rare earth permanent magnet materials ensure that the motor has a larger torque output and a smaller torque ripple, which delivers high-performance for low-speed/high-torque applications. The driver adopts the field-oriented control (FOC) algorithm, and matches with the high-precision angle sensor to realize precise torque and position control. The motor has a set of reliable motor OBD monitoring and protection mechanism to ensure the operation stability of the motor.

Application Fields



Home robot field

For small wheeled domestic robots such as Roomba, mopping robots, and home service robots, Direct Drive Tech provides direct-drive travel wheels and sweeping and mopping modules. The travel wheels are designed with hub motors, while the sweeping and mopping modules are boldly designed with a flat structure, and the sensing drive control is integrated into both the travel wheels and the sweeping and mopping modules.

Industrial/Commercial robots field

Direct Drive Tech provides direct drive wheel modules for AGV/AMR, indoor and outdoor inspection, distribution and cleaning and other wheeled robot industries. The driving wheel adopts flange connection for easy installation, the integrated sensing and driving control facilitates rapid integration, and the large bearing ensures long-term reliability.



Fitness industry

We provide resistance and damping motors for various types of fitness equipment. The direct-drive motor solution can generate the load force for fitness use, enough to replace 30 to 120kg fitness counterweight.

Application cases

M0601 Series

Air purifier — Chassis driving wheel

M0602 Series

Commercial cleaning robot — side sweep motor
Educational Robot — Driving Wheel

M0603 Series

Household robot — two-wheel drive wheel
Industrial conveyor line — drive motor

The image consists of three separate photographs. The leftmost photo shows a stick vacuum cleaner with a long handle and a motorized head, standing upright. The middle photo shows a white, circular robotic vacuum cleaner on a light-colored wooden floor. The rightmost photo is a close-up of a robotic mop's edge, showing a series of black rollers and a metal frame.

M0701 Series

Commercial 35/50kg cleaning robot —
chassis driving wheel



A white and black AGV/AMR chassis with a black top deck and a white front panel. The front panel features a black bumper, a red emergency stop button, and a black sensor unit. The number '1018' is printed on the front. The chassis is shown from a three-quarter perspective.

M1502 Series

Cruise ship — electric door drive motor

Lawn mower — chassis drive wheel

Camera Car/Mobile Robot — Chassis Driving Wheel

The image contains three separate photographs of robots. The leftmost photo shows a small, dark-colored robot with a transparent canopy, floating on a body of water. The middle photo shows a black, rectangular robot with a ribbed side and a small antenna, resting on a green grassy surface. The rightmost photo shows a white, rectangular mobile robot with a flat top and four black wheels, set against a plain white background.

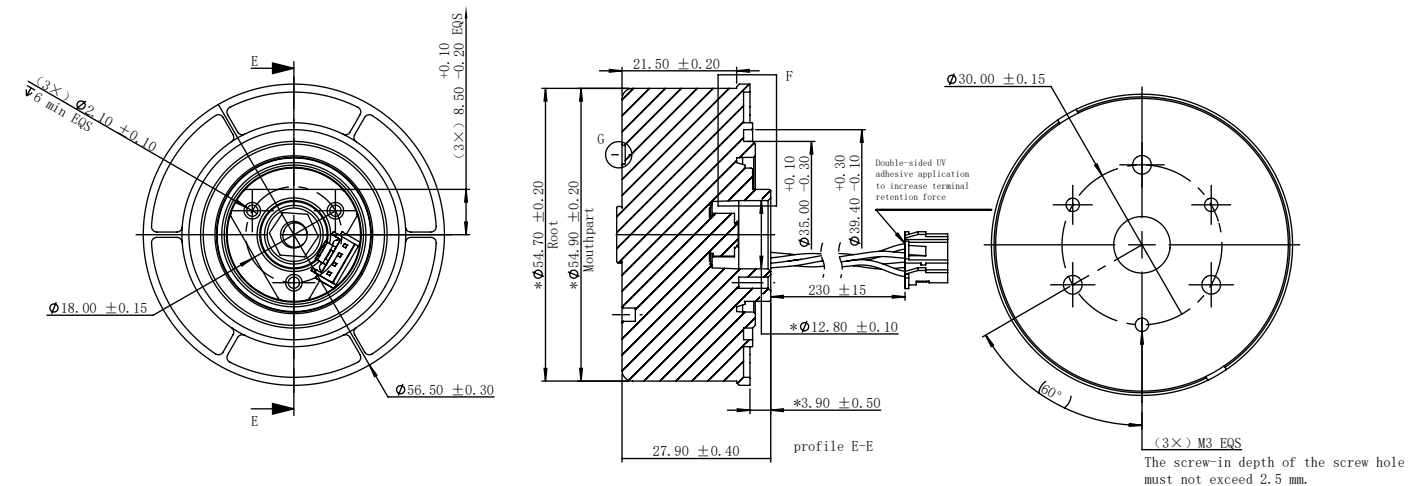
Product model
M0503C_211



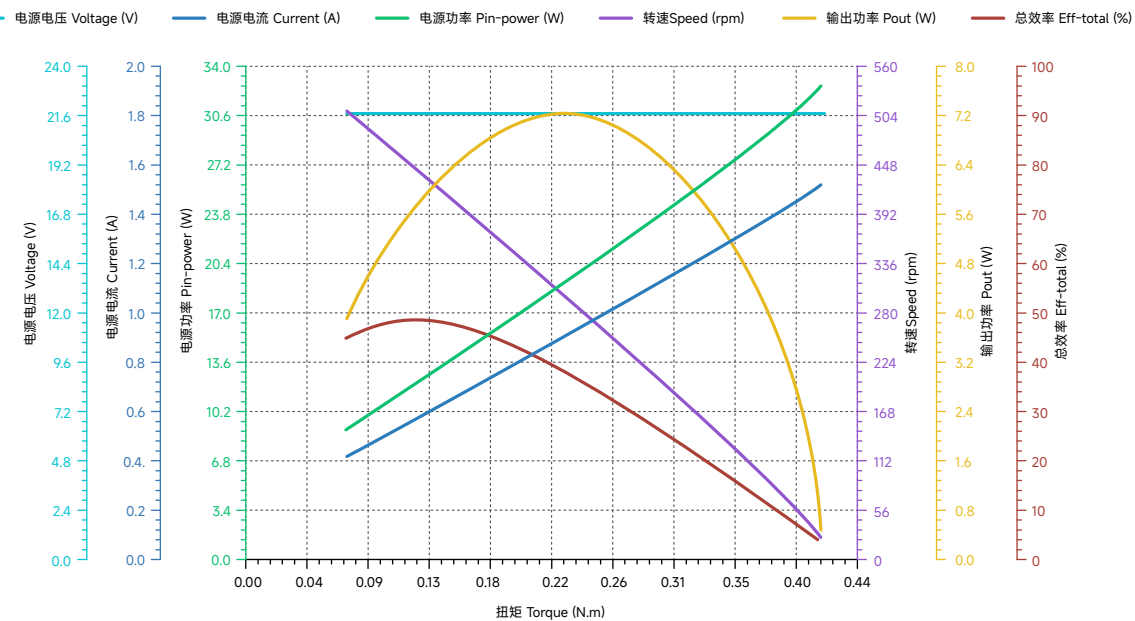
Motor Parameters

Size	mm	Φ54.7*27.9	Noise Level	dB	≤48
Rated Voltage	VDC	21.6	Encoder Resolution	bit	12
Rated Power	W	1.5	Communication Protocol	—	Single-wire half-duplex serial port
Rated Torque	N.m	0.15	Ingress Protection Rating	—	IPX4
Stall Torque	N.m	0.35	Insulation Level	—	B
Rated Speed	rpm	100	Insulation Voltage	VAC/Hz	500/50
Unload Velocity	rpm	625	Ambient Temperature	°C	0~40
Rated Current	A	0.35	Environment Humidity	%	< 85
Stall Current	A	2	Storage Temperature	°C	-20~70
Weight	g	160	Storage Humidity	%	< 85

Motor installation interface



Motor characteristic line chart



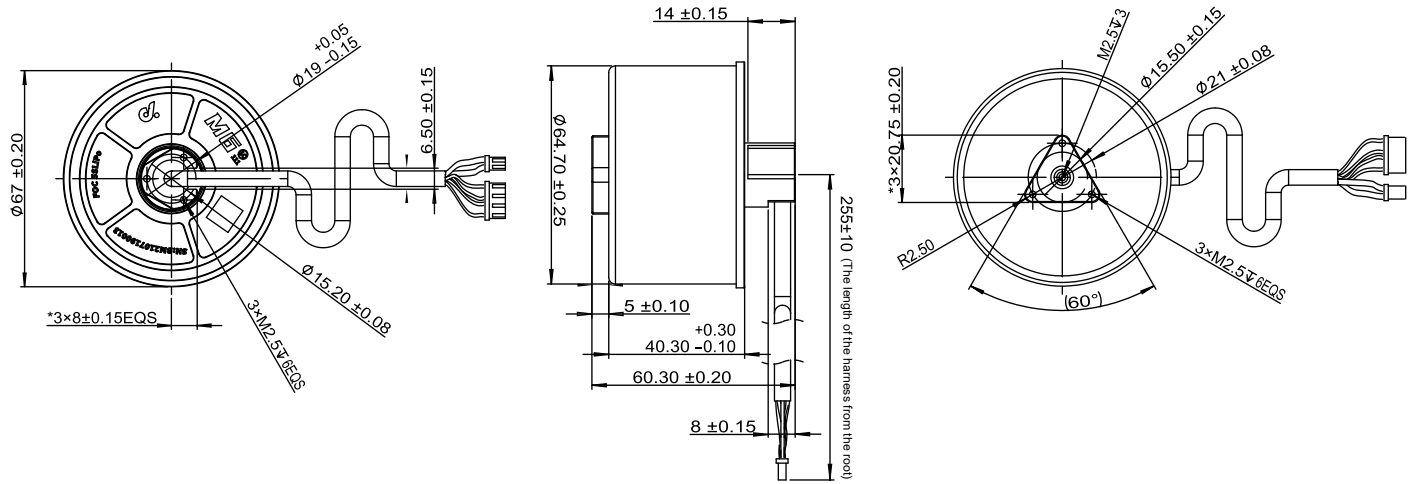
Product model
M0601C_111



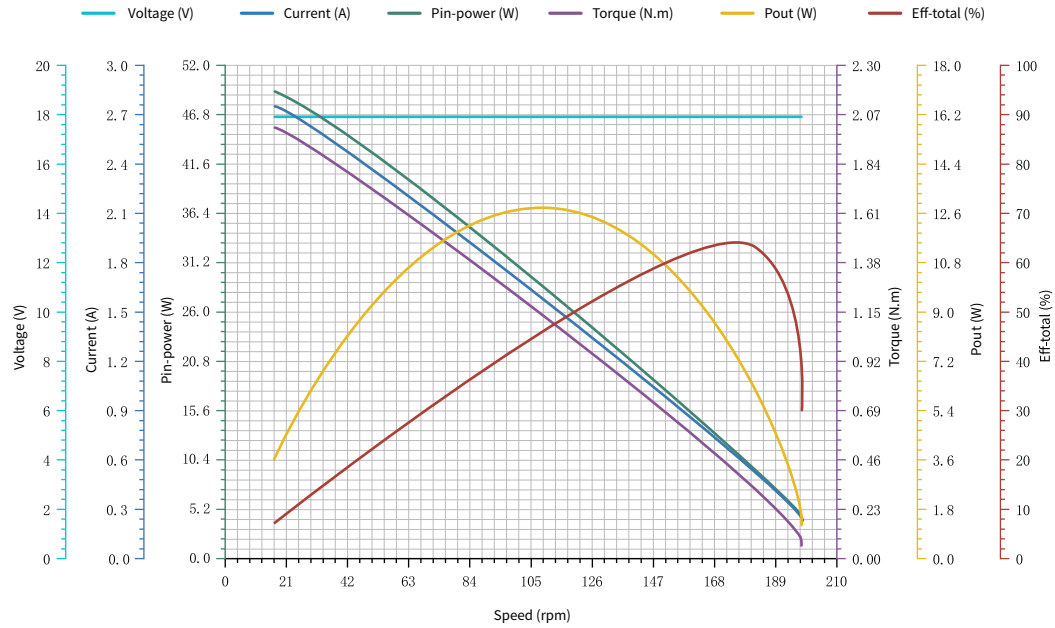
Motor Parameters

Size	mm	φ64.7*40.3	Noise Level	dB	≤50
Rated Voltage	VDC	18	Encoder Resolution	bit	12
Rated Power	W	10	Communication Protocol	—	485
Rated Torque	N.m	0.96	Ingress Protection Rating	—	IP54
Stall Torque	N.m	2	Insulation Level	—	B
Rated Speed	rpm	115	Insulation Voltage	VAC/Hz	600/50
Unload Velocity	rpm	200	Ambient Temperature	°C	-20~45
Rated Current	A	1.25	Environment Humidity	%	<85
Stall Current	A	2.7	Storage Temperature	°C	-20~65
Weight	g	485	Storage Humidity	%	<85

Motor installation interface



Motor characteristic line chart



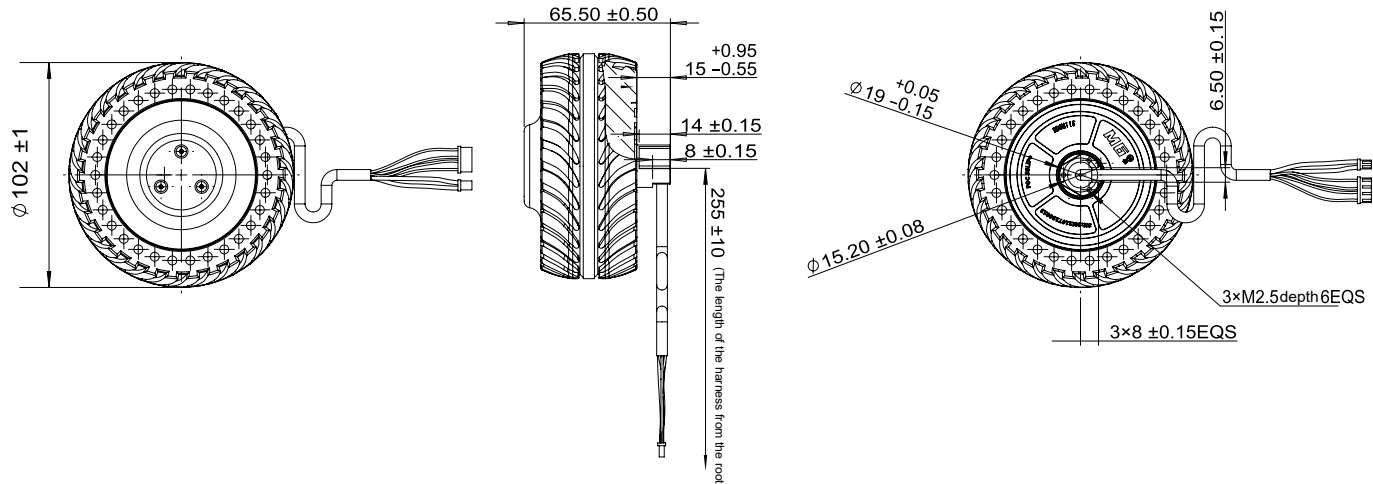
Product model
M0601C_411



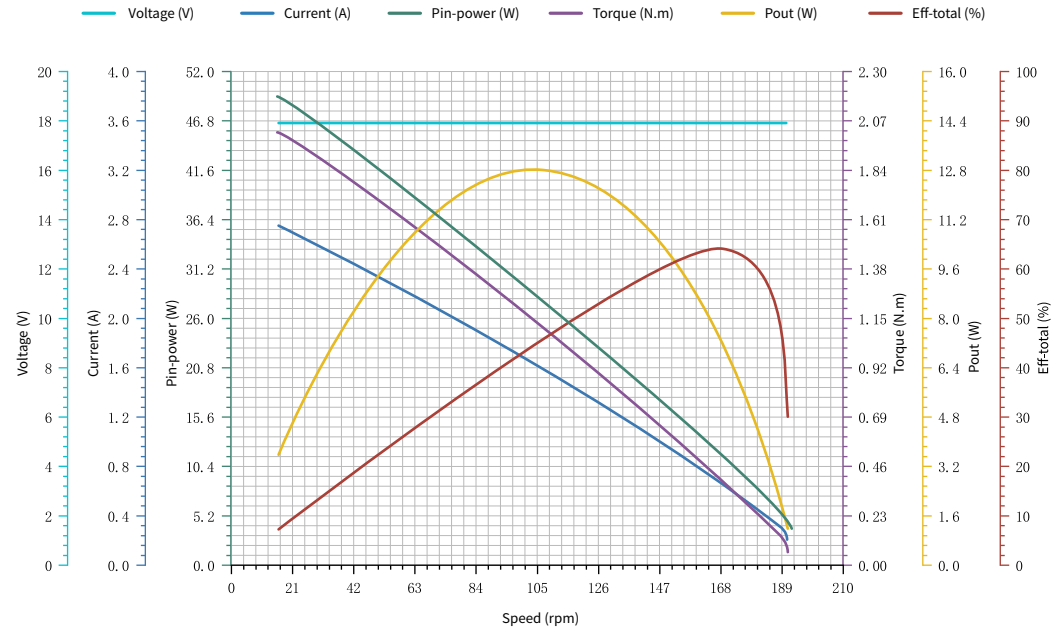
Motor Parameters

Size	mm	φ100.7*43	Noise Level	dB	≤50
Rated Voltage	VDC	18	Encoder Resolution	bit	12
Rated Power	W	10	Communication Protocol	—	485
Rated Torque	N.m	0.96	Ingress Protection Rating	—	IP54
Stall Torque	N.m	2	Insulation Level	—	B
Rated Speed	rpm	115	Insulation Voltage	VAC/Hz	600/50
Unload Velocity	rpm	200	Ambient Temperature	°C	-20~45
Rated Current	A	1.25	Environment Humidity	%	<85
Stall Current	A	2.7	Storage Temperature	°C	-20~65
Weight	g	745	Storage Humidity	%	<85

Motor installation interface



Motor characteristic line chart



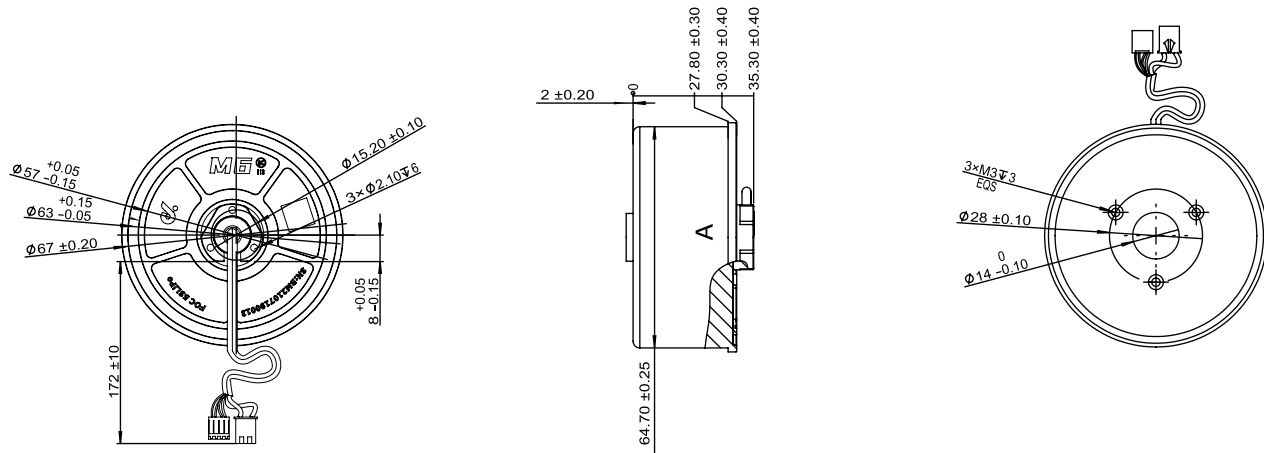
Product model
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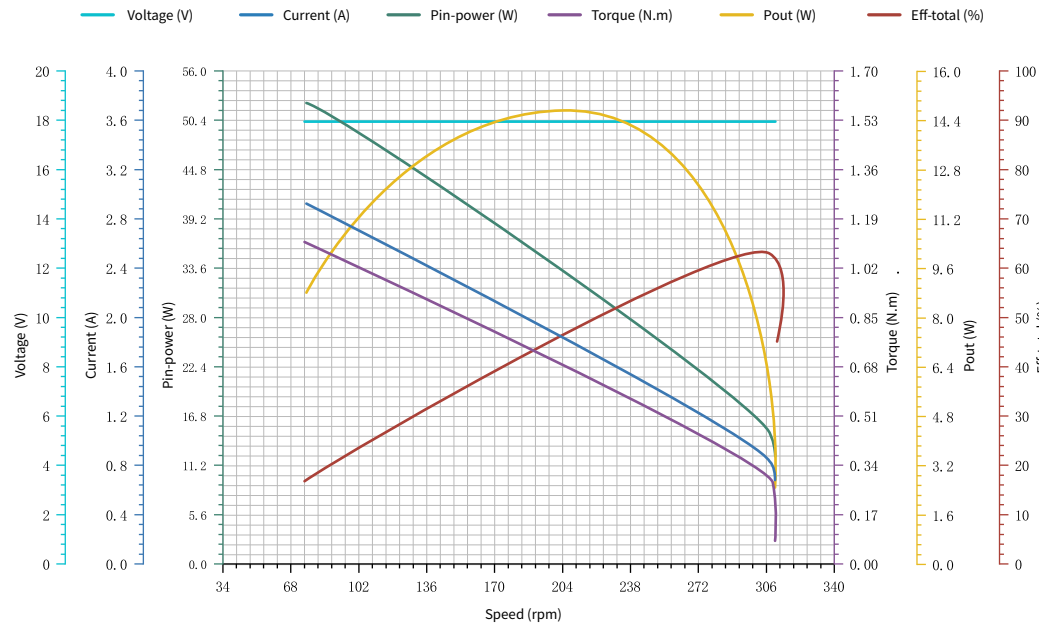
Motor Parameters

Size	mm	$\phi 64.7 \times 30.3$	Noise Level	dB	≤ 50
Rated Voltage	VDC	18	Encoder Resolution	bit	12
Rated Power	W	10	Communication Protocol	—	485
Rated Torque	N.m	0.55	Ingress Protection Rating	—	IP54
Stall Torque	N.m	1.1	Insulation Level	—	B
Rated Speed	rpm	200	Insulation Voltage	VAC/Hz	600/50
Unload Velocity	rpm	315	Ambient Temperature	°C	-20~45
Rated Current	A	1.45	Environment Humidity	%	<85
Stall Current	A	3.5	Storage Temperature	°C	-20~65
Weight	g	300	Storage Humidity	%	<85

Motor installation interface



Motor characteristic line chart



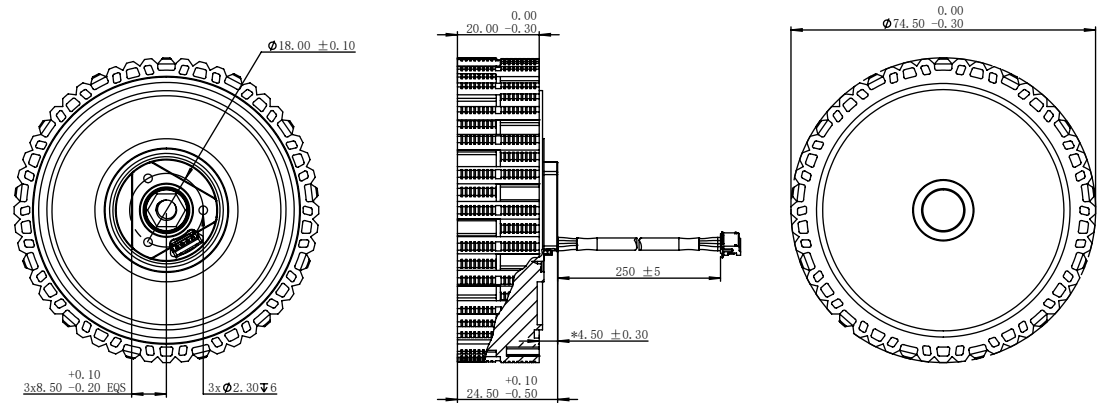
Product model
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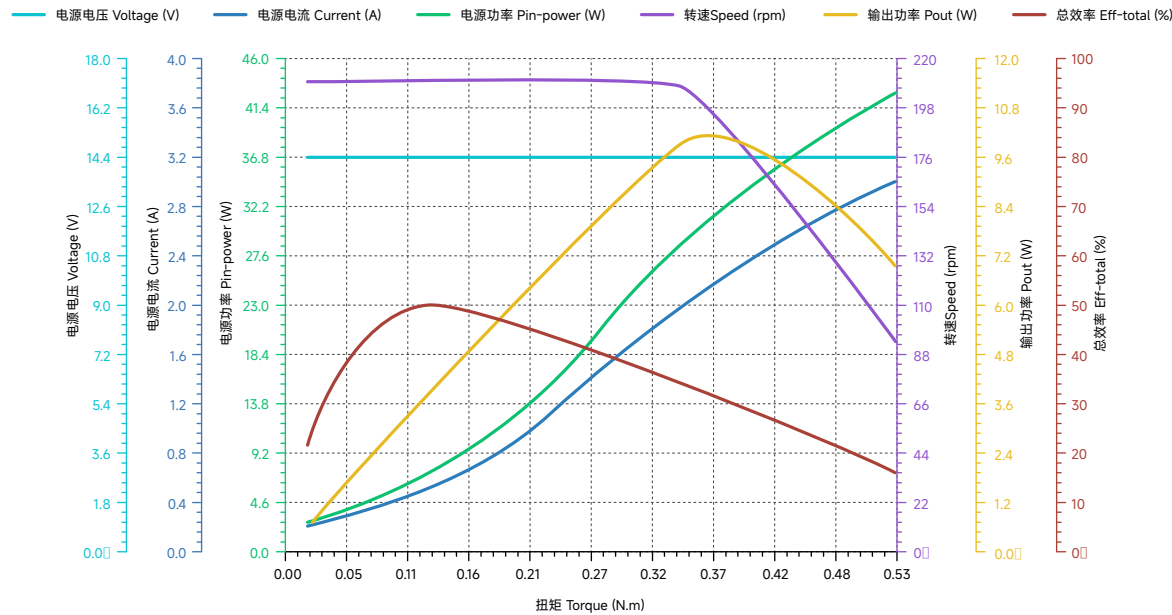
Motor Parameters

Size	mm	$\Phi 74.5 \times 20$	Noise Level	dB	≤ 48
Rated Voltage	VDC	14.4	Encoder Resolution	bit	12
Rated Power	W	2.5	Communication Protocol	—	UART
Rated Torque	N.m	0.25	Ingress Protection Rating	—	IPX4
Stall Torque	N.m	0.85	Insulation Level	—	F
Rated Speed	rpm	98	Insulation Voltage	VAC/Hz	500/50
Unload Velocity	rpm	210	Ambient Temperature	°C	-10~40
Rated Current	A	0.5	Environment Humidity	%	<85
Stall Current	A	3	Storage Temperature	°C	-20~65
Weight	g	260	Storage Humidity	%	<85

Motor installation interface



Motor characteristic line chart



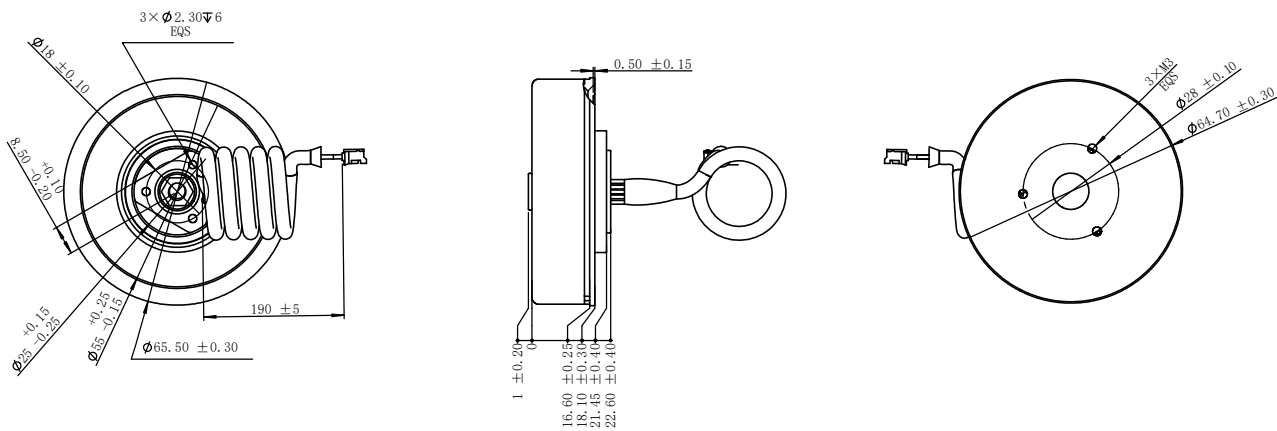
Product model
M0603A_111



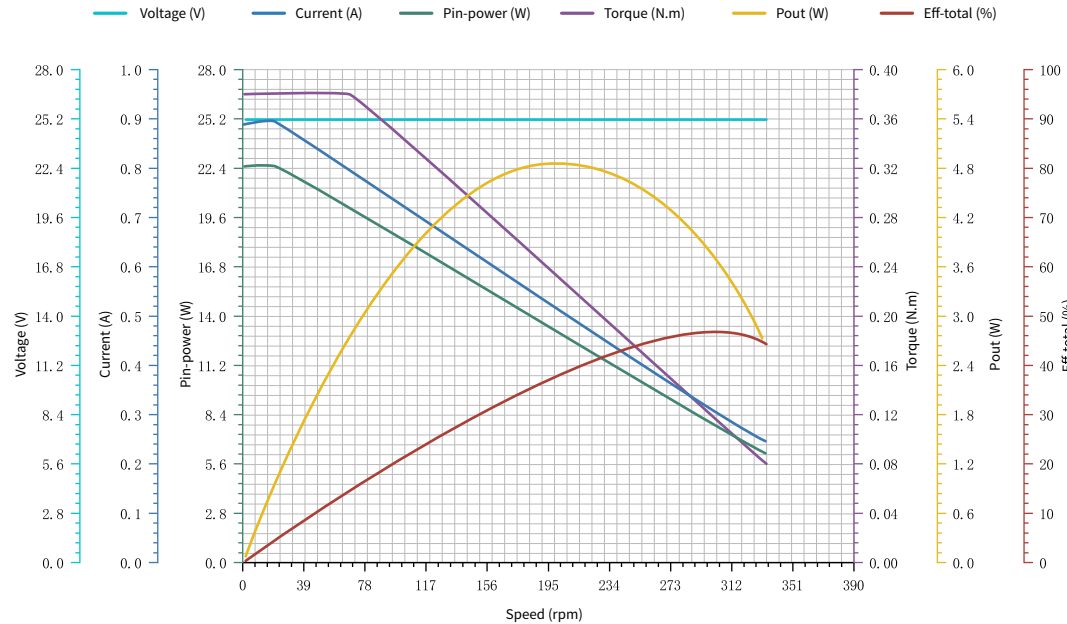
Motor Parameters

Size	mm	φ64.7*18.1	Noise Level	dB	≤45
Rated Voltage	VDC	25.2	Encoder Resolution	bit	12
Rated Power	W	1.5	Communication Protocol	—	UART
Rated Torque	N.m	0.15	Ingress Protection Rating	—	IP64
Stall Torque	N.m	0.3	Insulation Level	—	F
Rated Speed	rpm	100	Insulation Voltage	VAC/Hz	500/50
Unload Velocity	rpm	400	Ambient Temperature	°C	-10~40
Rated Current	A	0.24	Environment Humidity	%	<85
Stall Current	A	1	Storage Temperature	°C	-20~65
Weight	g	198	Storage Humidity	%	<85

Motor installation interface



Motor characteristic line chart



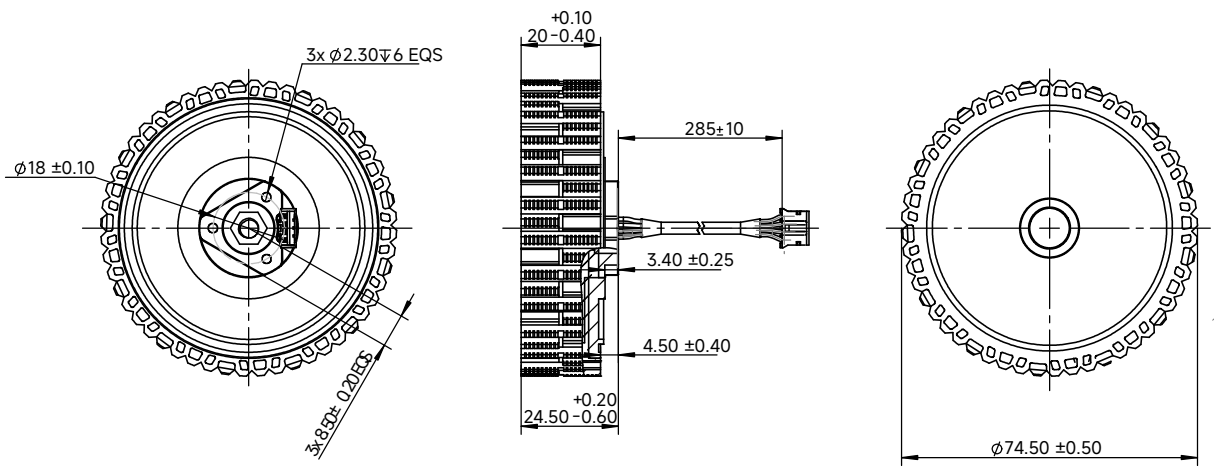
产品型号
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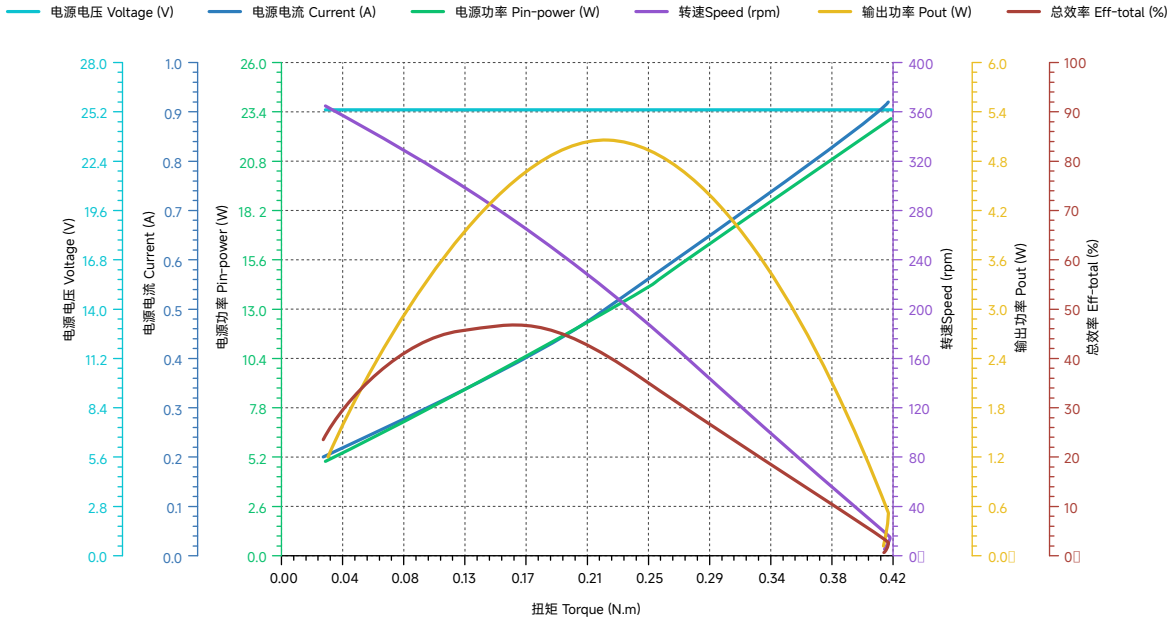
Motor Parameters

Size	mm	φ74.5*20	Noise Level	dB	≤45
Rated Voltage	VDC	25.2	Encoder Resolution	bit	12
Rated Power	W	1.5	Communication Protocol	—	UART
Rated Torque	N.m	0.15	Ingress Protection Rating	—	IP54
Stall Torque	N.m	0.3	Insulation Level	—	F
Rated Speed	rpm	100	Insulation Voltage	VAC/Hz	500/50
Unload Velocity	rpm	400	Ambient Temperature	°C	-10~40
Rated Current	A	0.24	Environment Humidity	%	<85
Stall Current	A	1	Storage Temperature	°C	-20~65
Weight	g	218	Storage Humidity	%	<85

Motor installation interface



Motor characteristic line chart



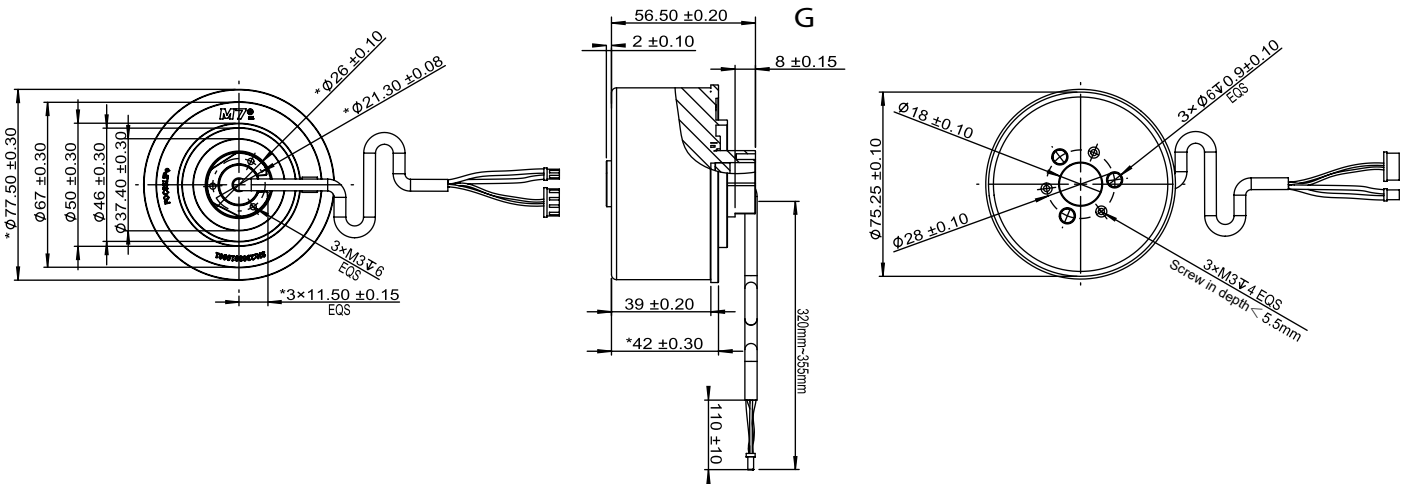
Product model
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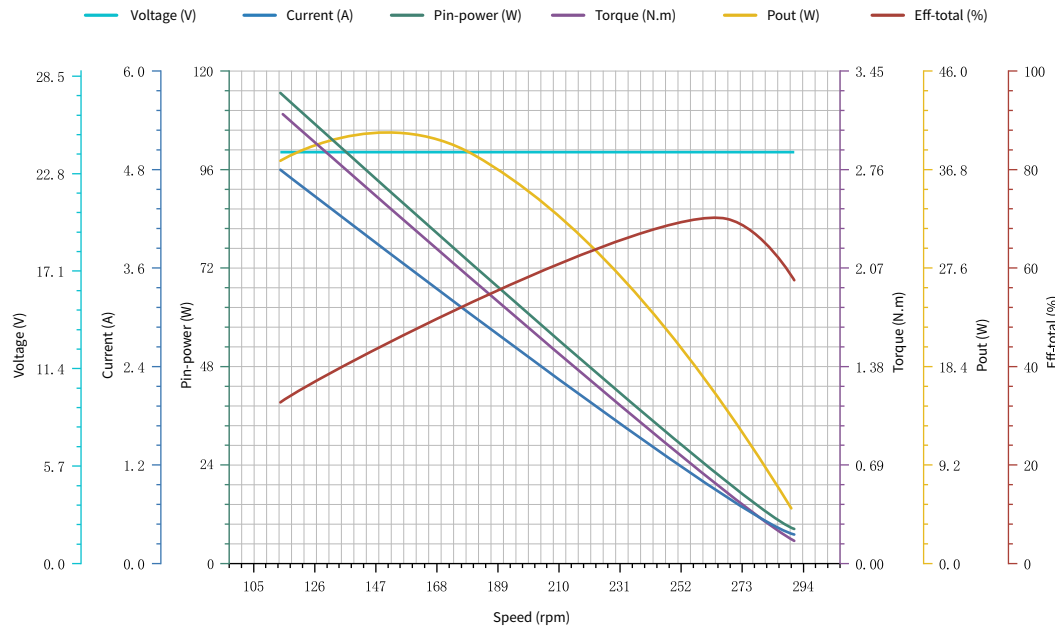
Motor Parameters

Size	mm	φ75.25*42	Noise Level	dB	≤40
Rated Voltage	VDC	24	Encoder Resolution	bit	12
Rated Power	W	25	Communication Protocol	—	485
Rated Torque	N.m	1.2	Ingress Protection Rating	—	IP54
Stall Torque	N.m	4.5	Insulation Level	—	B
Rated Speed	rpm	200	Insulation Voltage	VAC/Hz	600/50
Unload Velocity	rpm	300	Ambient Temperature	°C	-20~105
Rated Current	A	1.55	Environment Humidity	%	<85
Stall Current	A	8.5	Storage Temperature	°C	-20~65
Weight	g	730	Storage Humidity	%	<85

Motor installation interface



Motor characteristic line chart



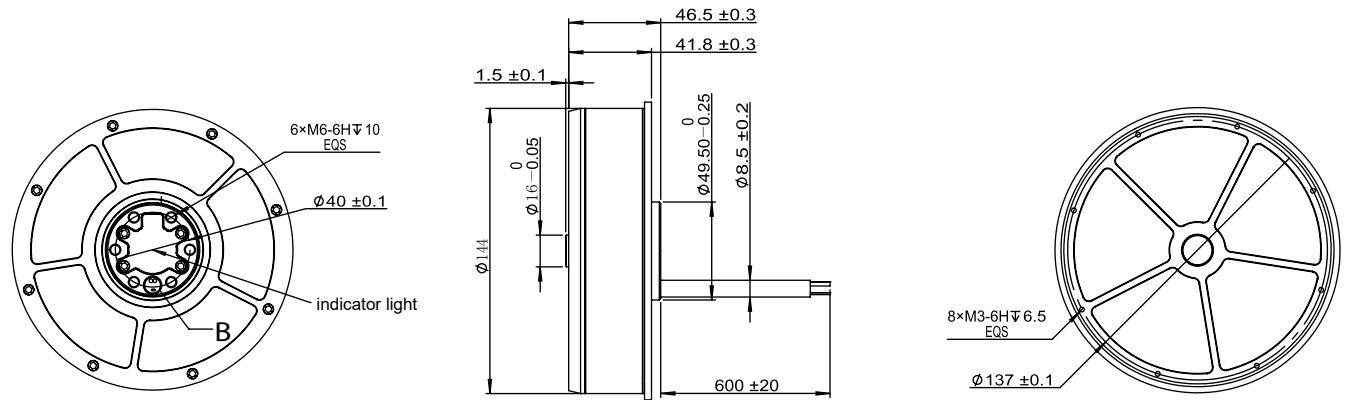
Product model
M1502D_133



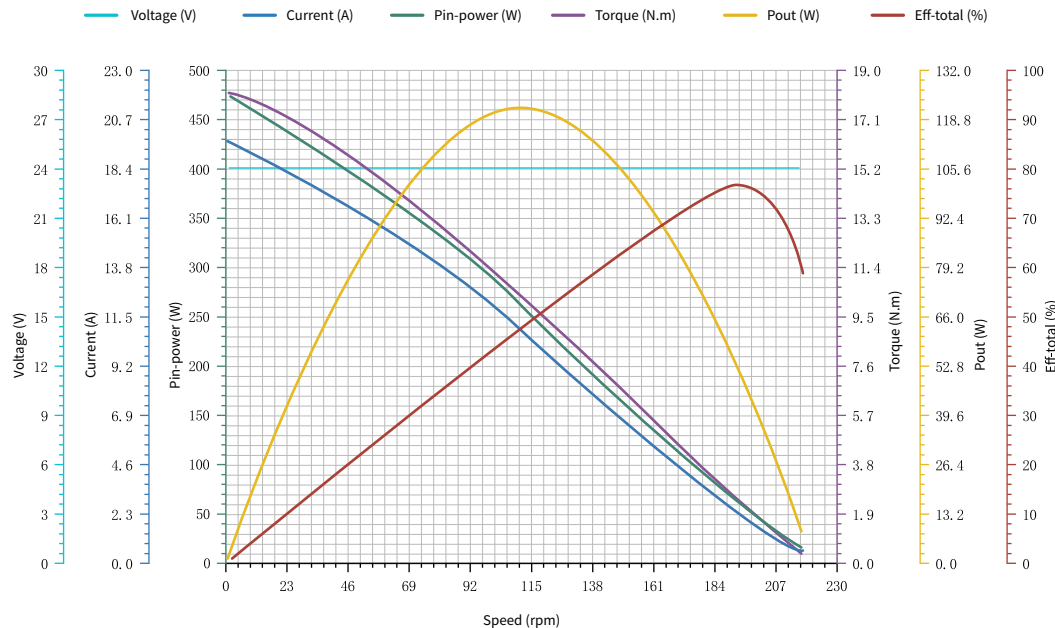
Motor Parameters

Size	mm	φ144*41.83	Noise Level	dB	≤52
Rated Voltage	VDC	24	Encoder Resolution	bit	14
Rated Power	W	110	Communication Protocol	—	CAN
Rated Torque	N.m	9.6 (Duty Cycle S2)	Ingress Protection Rating	—	IP55
Stall Torque	N.m	17	Insulation Level	—	B
Rated Speed	rpm	115	Insulation Voltage	VAC/Hz	600/50
Unload Velocity	rpm	200	Ambient Temperature	°C	-20~45
Rated Current	A	11.5	Environment Humidity	%	<85
Stall Current	A	21	Storage Temperature	°C	-20~65
Weight	g	2300	Storage Humidity	%	<85

Motor installation interface



Motor characteristic line chart



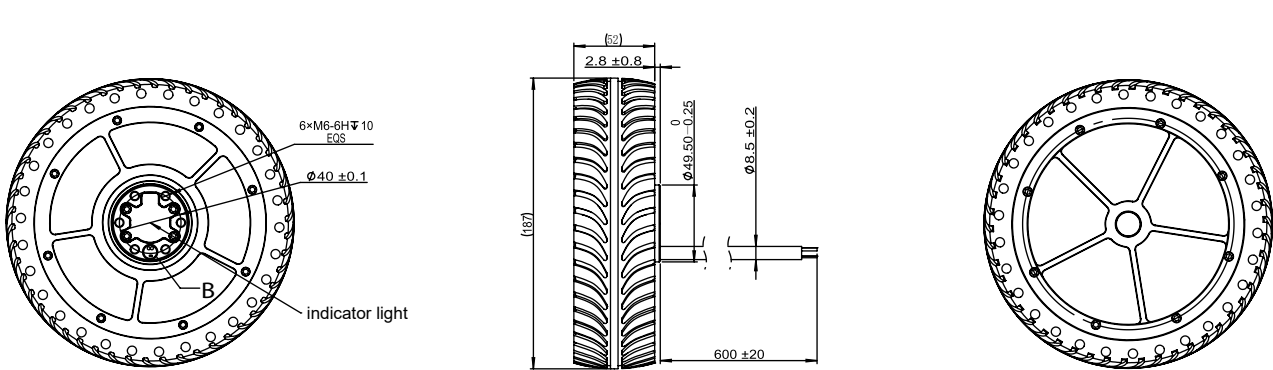
Product model
M1502D_233



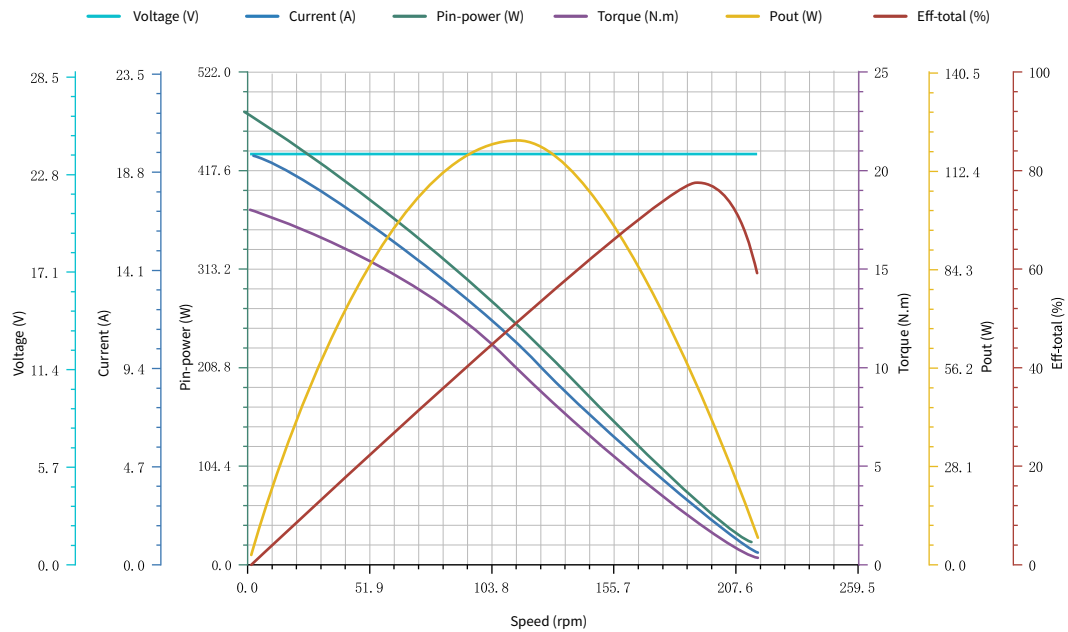
Motor Parameters

Size	mm	φ187*52	Noise Level	dB	≤52
Rated Voltage	VDC	24	Encoder Resolution	bit	14
Rated Power	W	110	Communication Protocol	—	CAN
Rated Torque	N.m	9.6 (Duty Cycle S2)	Ingress Protection Rating	—	IP55
Stall Torque	N.m	17	Insulation Level	—	B
Rated Speed	rpm	115	Insulation Voltage	VAC/Hz	600/50
Unload Velocity	rpm	200	Ambient Temperature	°C	-20~45
Rated Current	A	11.5	Environment Humidity	%	<85
Stall Current	A	21	Storage Temperature	°C	-20~65
Weight	g	3000	Storage Humidity	%	<85

Motor installation interface



Motor characteristic line chart



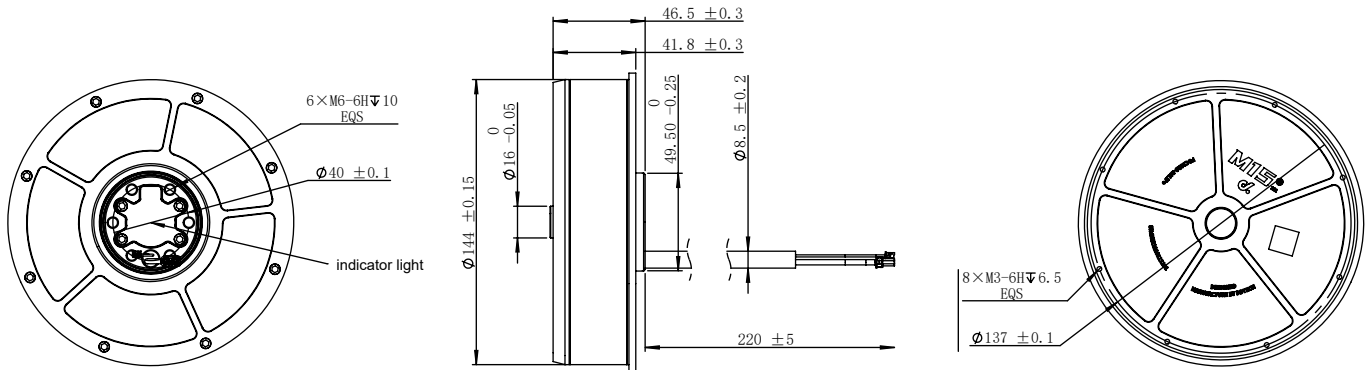
Product model
M1502E_111



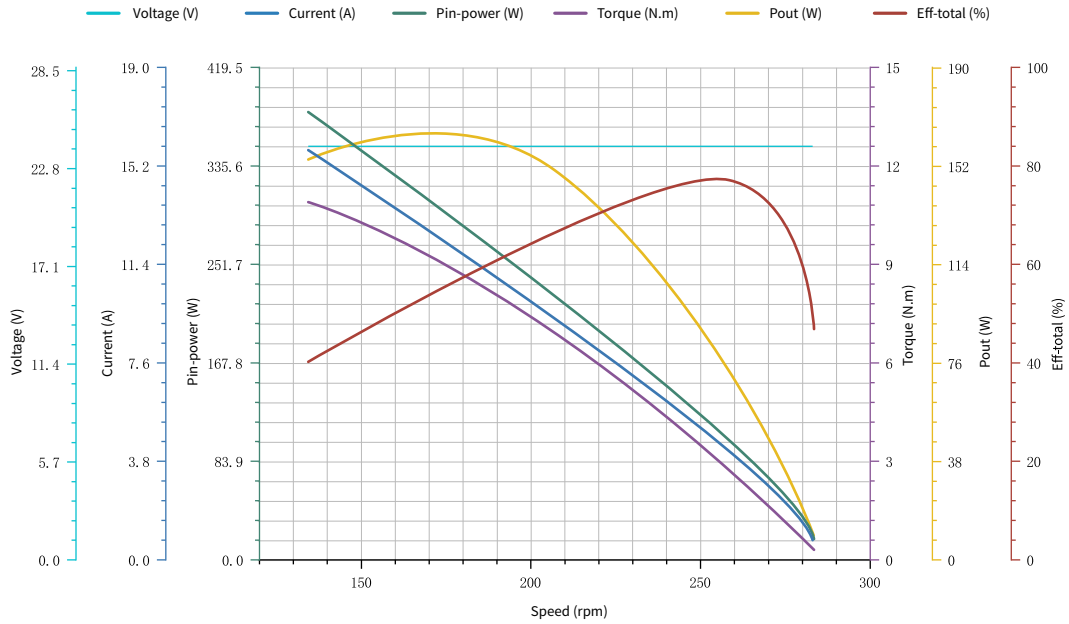
Motor Parameters

Size	mm	φ144*41.83	Noise Level	dB	≤52
Rated Voltage	VDC	24	Encoder Resolution	bit	14
Rated Power	W	20	Communication Protocol	—	CAN
Rated Torque	N.m	2	Ingress Protection Rating	—	IP65
Stall Torque	N.m	10	Insulation Level	—	B
Rated Speed	rpm	95	Insulation Voltage	VAC/Hz	600/50
Unload Velocity	rpm	210	Ambient Temperature	°C	-20~45
Rated Current	A	1.5	Environment Humidity	%	<85
Stall Current	A	17	Storage Temperature	°C	-20~65
Weight	g	1860	Storage Humidity	%	<85

Motor installation interface



Motor characteristic line chart



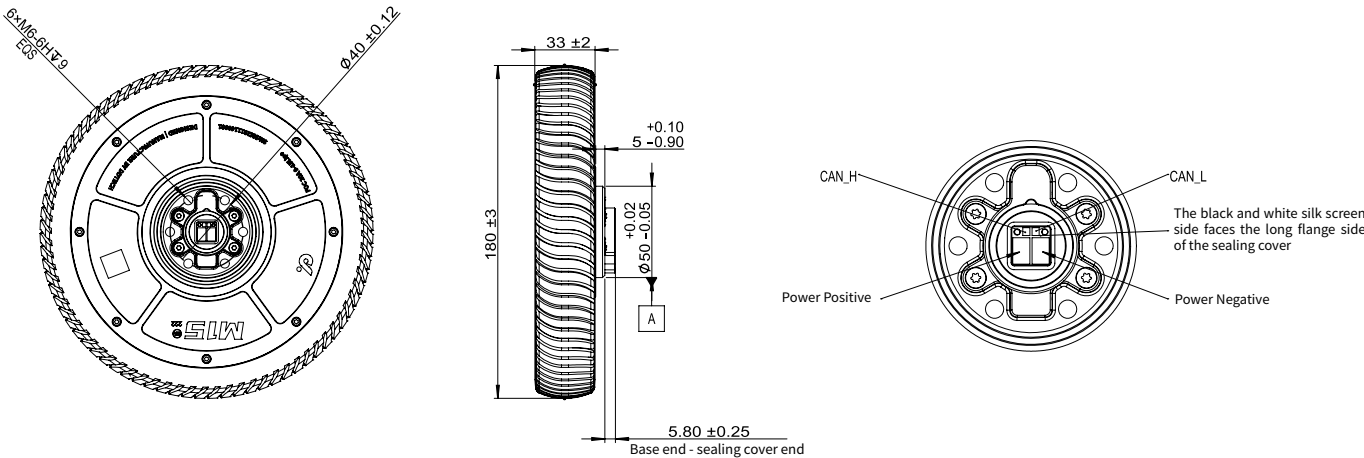
Product model
M1505A222



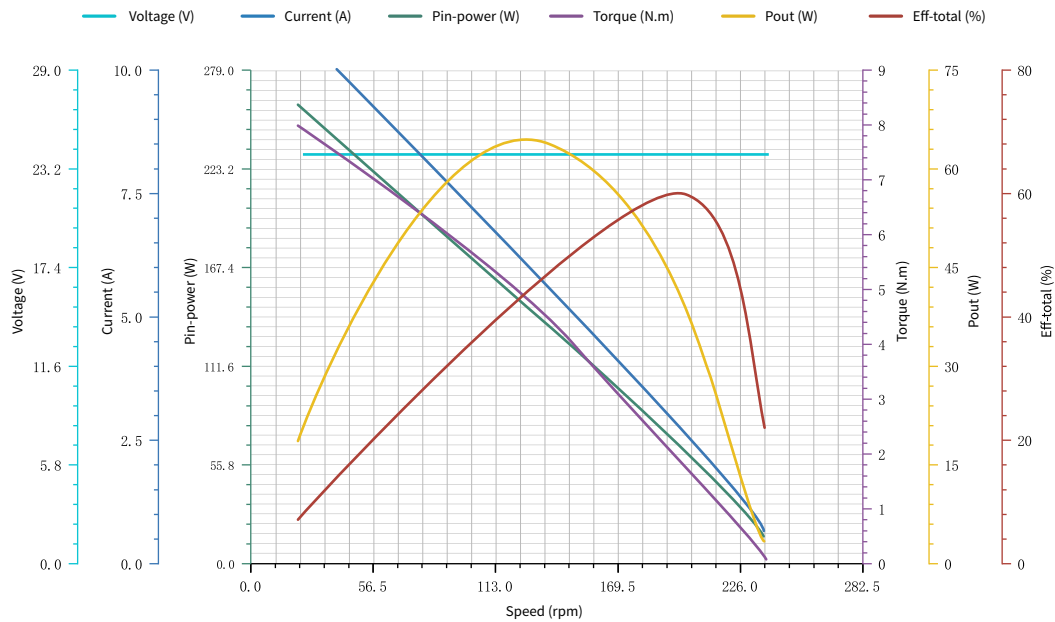
Motor Parameters

Size	mm	φ180.3*33.2	Noise Level	dB	≤65
Rated Voltage	VDC	24	Encoder Resolution	bit	15
Rated Power	W	55	Communication Protocol	—	CAN
Rated Torque	N.m	3	Ingress Protection Rating	—	IP65
Stall Torque	N.m	7.5	Insulation Level	—	F
Rated Speed	rpm	175	Insulation Voltage	VAC/Hz	500/50
Unload Velocity	rpm	250	Ambient Temperature	°C	-20~50
Rated Current	A	4.2	Environment Humidity	%	<85%
Stall Current	A	12	Storage Temperature	°C	-20~60
Weight	g	1.54	Storage Humidity	%	<85%

Motor installation interface



Motor characteristic line chart



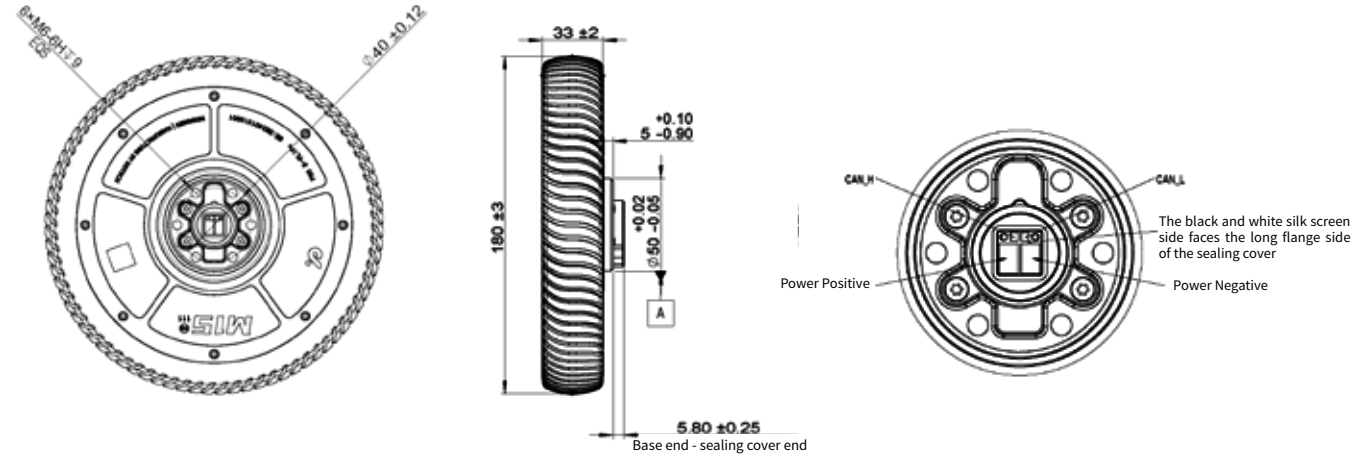
Product model
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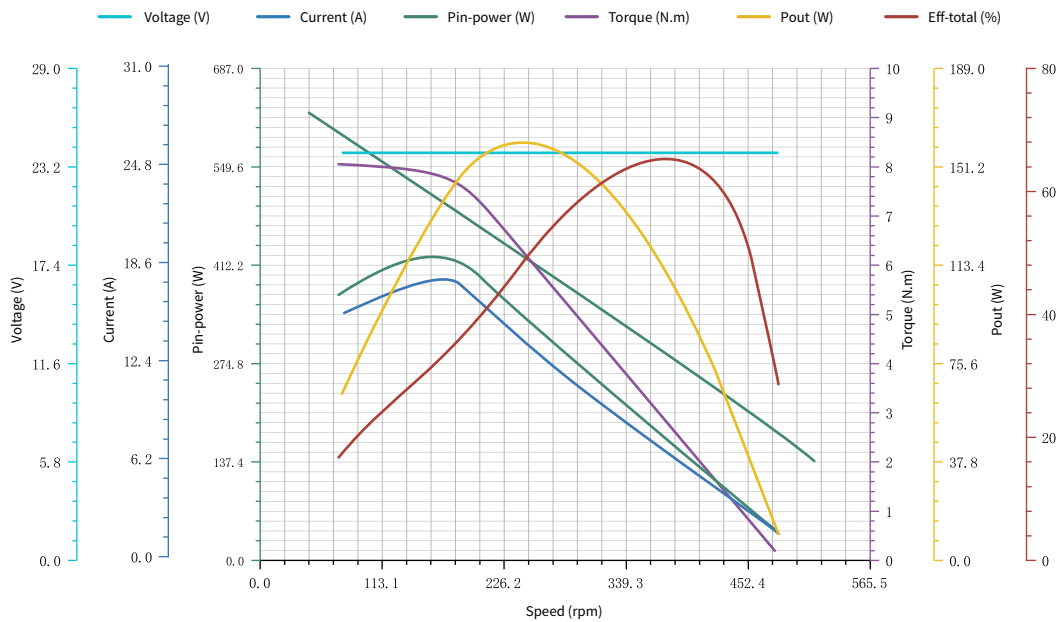
Motor Parameters

Size	mm	φ180.3*33.2	Noise Level	dB	≤65
Rated Voltage	VDC	24	Encoder Resolution	bit	15
Rated Power	W	120	Communication Protocol	—	CAN
Rated Torque	N.m	3	Ingress Protection Rating	—	IP65
Stall Torque	N.m	9.5	Insulation Level	—	F
Rated Speed	rpm	360	Insulation Voltage	VAC/Hz	500/50
Unload Velocity	rpm	510	Ambient Temperature	°C	-20~50
Rated Current	A	7.5	Environment Humidity	%	<85%
Stall Current	A	30	Storage Temperature	°C	-20~60
Weight	g	1.54	Storage Humidity	%	<85%

Motor installation interface



Motor characteristic line chart



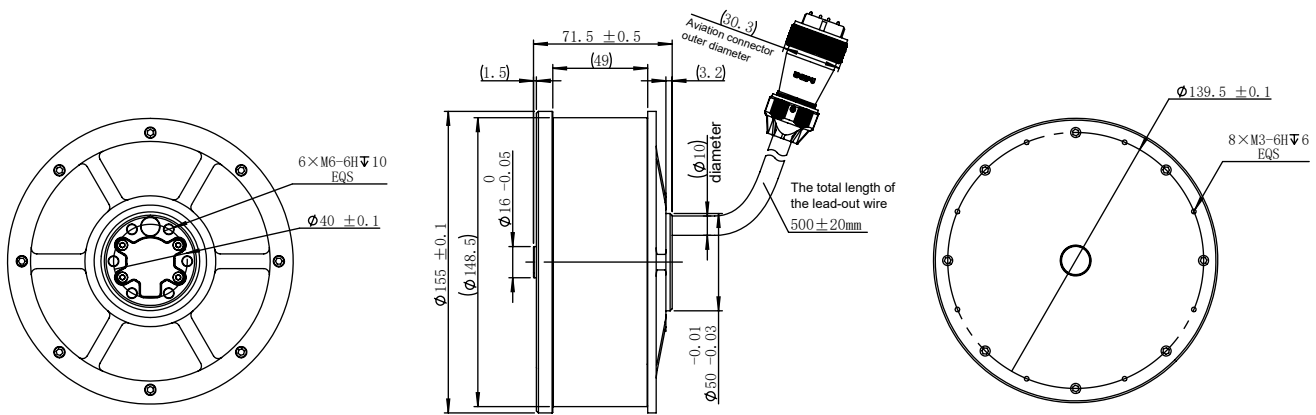
Product model
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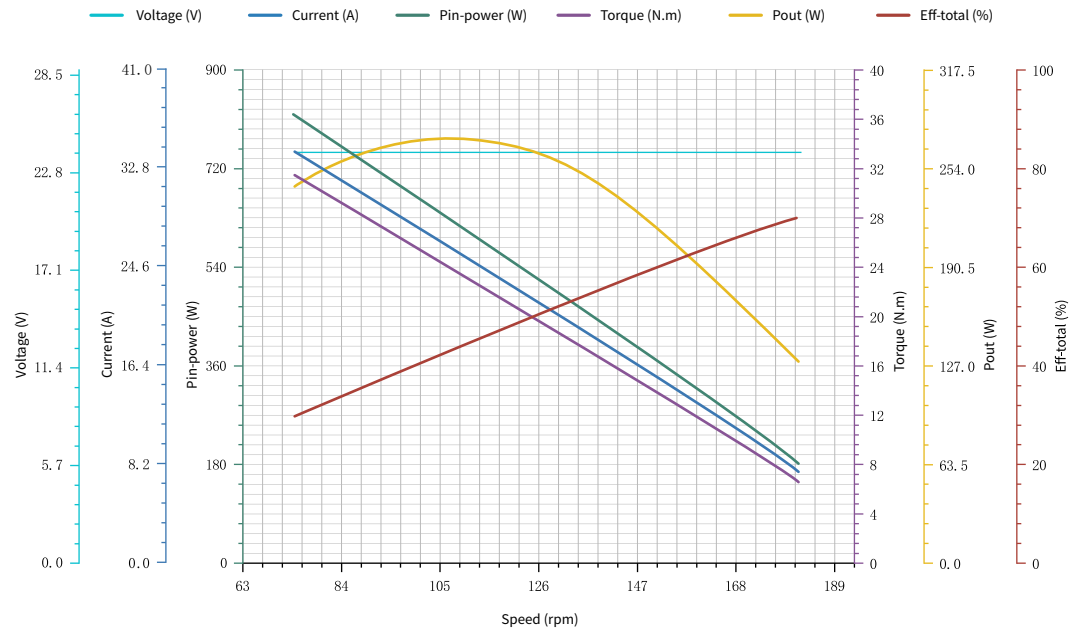
Motor Parameters

Size	mm	φ155*71.5	Noise Level	dB	≤50
Rated Voltage	VDC	24	Encoder Resolution	bit	17
Rated Power	W	150	Communication Protocol	—	CAN
Rated Torque	N.m	10	Ingress Protection Rating	—	IP55
Stall Torque	N.m	30	Insulation Level	—	F
Rated Speed	rpm	150	Insulation Voltage	VAC/Hz	600/50
Unload Velocity	rpm	200	Ambient Temperature	°C	-20~40
Rated Current	A	10	Environment Humidity	%	<85
Stall Current	A	30	Storage Temperature	°C	-20~65
Weight	g	4400	Storage Humidity	%	<85

Motor installation interface



Motor characteristic line chart



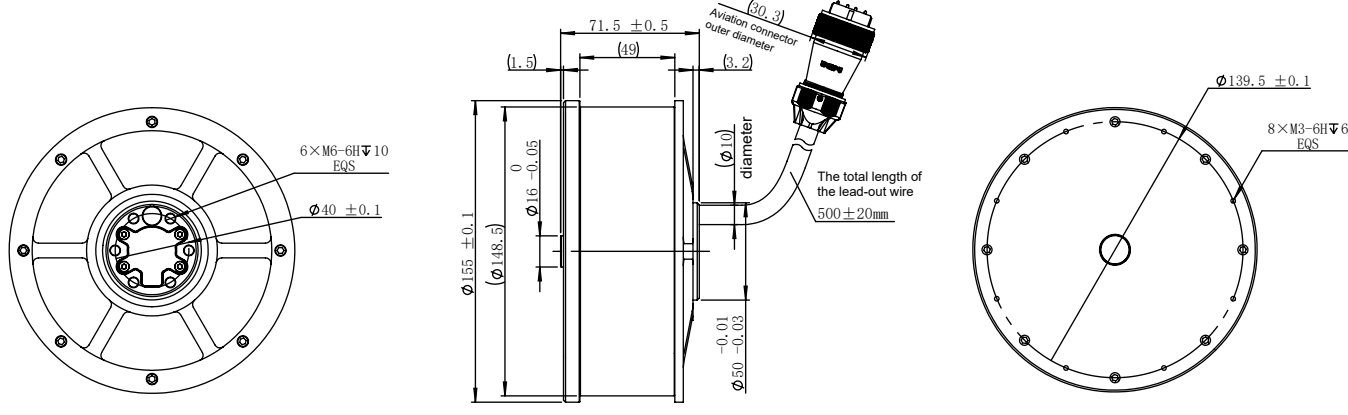
Product model
M1503A_311



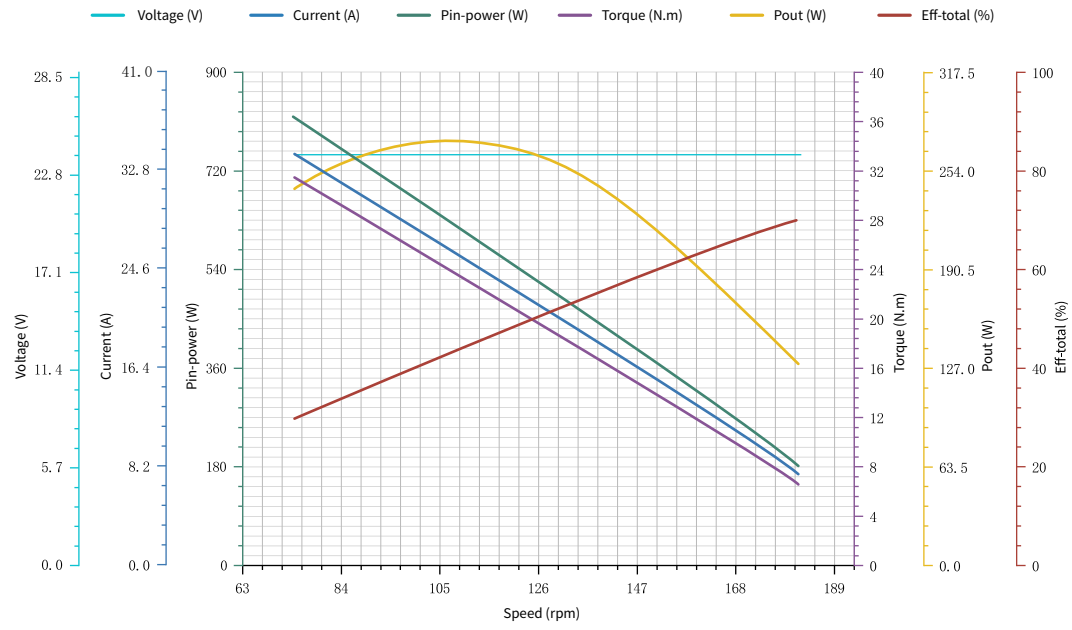
Motor Parameters

Size	mm	φ155*71.5	Noise Level	dB	≤50
Rated Voltage	VDC	24	Encoder Resolution	bit	17
Rated Power	W	150	Communication Protocol	—	CAN
Rated Torque	N.m	10	Ingress Protection Rating	—	IP55
Stall Torque	N.m	30	Insulation Level	—	F
Rated Speed	rpm	150	Insulation Voltage	VAC/Hz	600/50
Unload Velocity	rpm	200	Ambient Temperature	°C	-20~40
Rated Current	A	10	Environment Humidity	%	<85
Stall Current	A	30	Storage Temperature	°C	-20~65
Weight	g	4400	Storage Humidity	%	<85

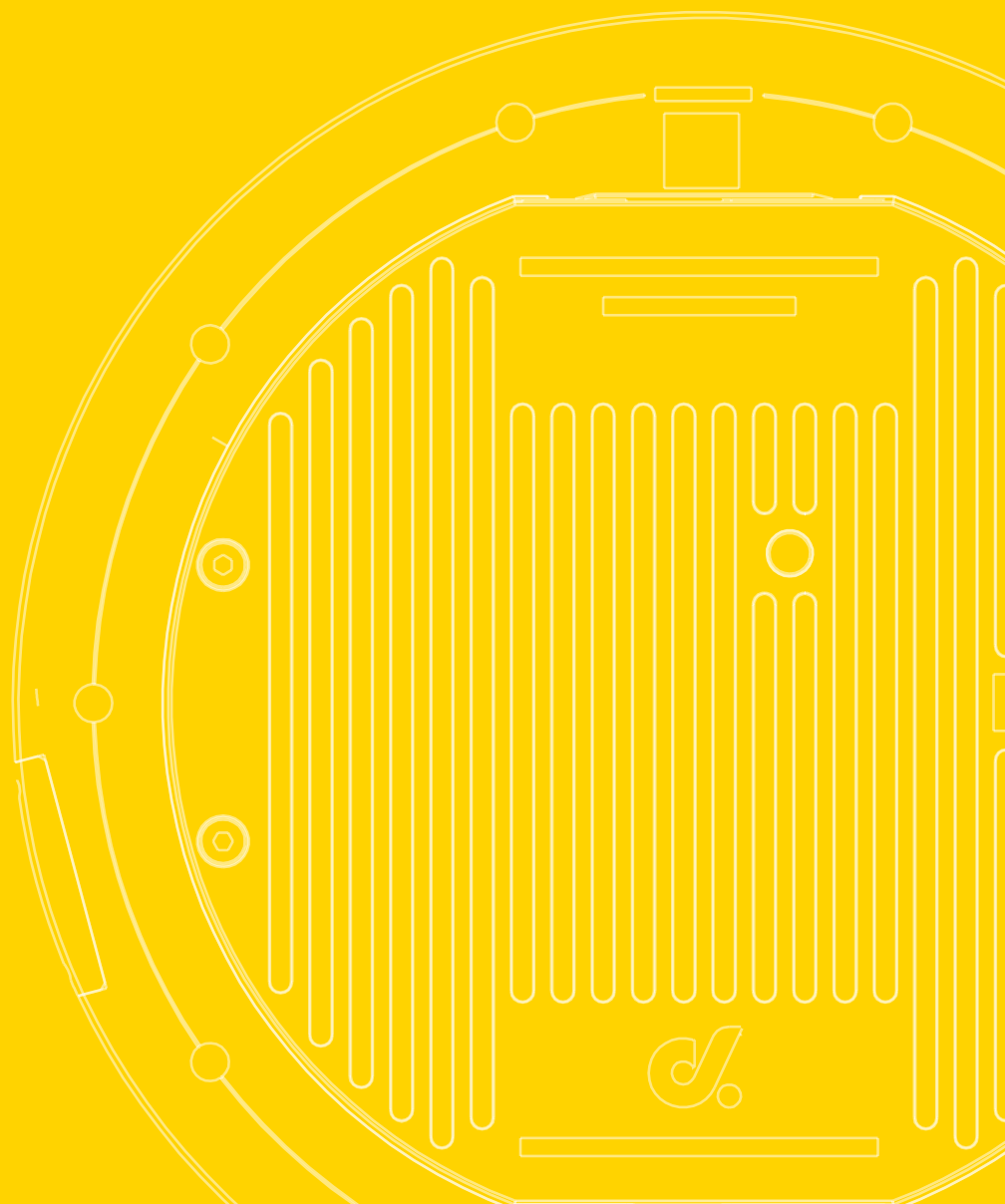
Motor installation interface



Motor characteristic line chart

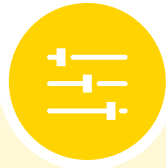


QUASI-DIRECT DRIVE MOTOR SERIES



05 QUASI-DIRECT DRIVE MOTOR SERIES

Product Features



High precision & Responsiveness

It features excellent position and speed control capabilities, achieving precise motion, positioning, and high responsiveness to adapt to rapidly changing motion demands.



High torque performance

It provides powerful torque output, allowing robots to handle a wide range of work and operational demands, thereby increasing their payload capacity and overall efficiency.



High efficiency density & Compact size

Featuring high efficiency density, it offers substantial power output in a small volume. This helps reduce the size and weight of robots, enhancing their maneuverability and carrying capacity.



High reliability & Durability

With meticulous design and production, it is extremely reliable and durable to continuously run and withstand frequent motion and loading changes. This ensures the stability of robotic systems.



Low noise & High efficient performance

This significantly enhances motor performance and energy utilization efficiency while reducing noise and energy consumption, thereby improving the overall operational efficiency and sustainability of the robotic system.



Simplified integration & Control

Our motor solution emphasizes simplified integration and control, offering standard interfaces and multiple communication protocols: CANFD/-CAN2.0/RS485, allowing the connection and interaction of robotic control systems.

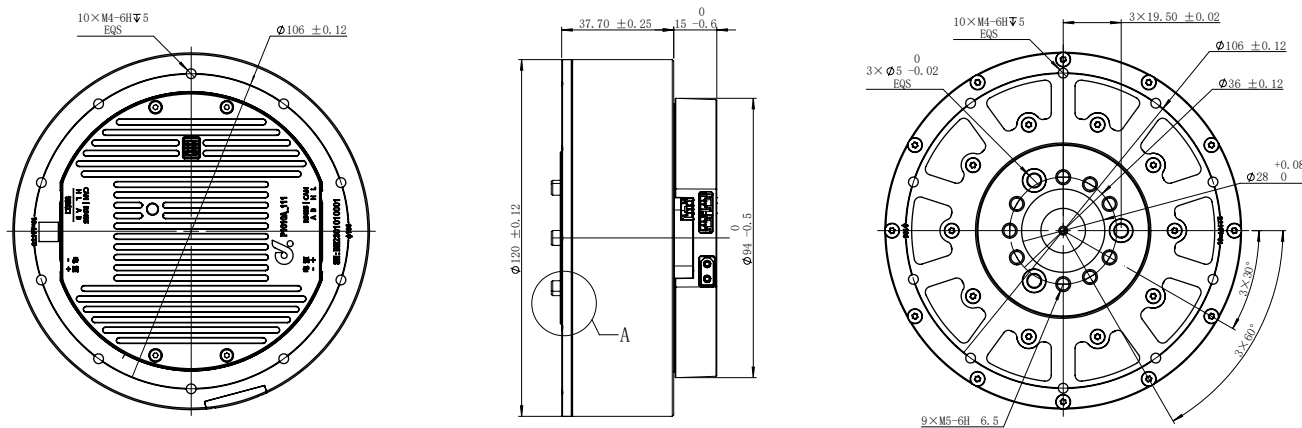
Product model
P1010A



Motor Parameters

Motor Parameters	Rated Voltage	48 VDC
	Rated Current (Busbar)	6.6±0.3 A
	Rated Torque	25 Nm
	Peak Torque	120 Nm
	Rated Speed	100±3 RPM
	Unload Velocity	≥180 RPM
Motor Characteristics	Reduction ratio	10 : 1
	Pole pairs	21
	Phase inductance	160 uh (@25°C)
	Phase resistance	0.146 Ω (@25°C)
Structure & Weight	Outer diameter	120 mm
	Height	52.7 mm
	Weight	1.4 Kg
Encoder	Encoder Bits	15 Bits (Rotor position detection) +15 Bits (Absolute position detection)

Motor installation interface



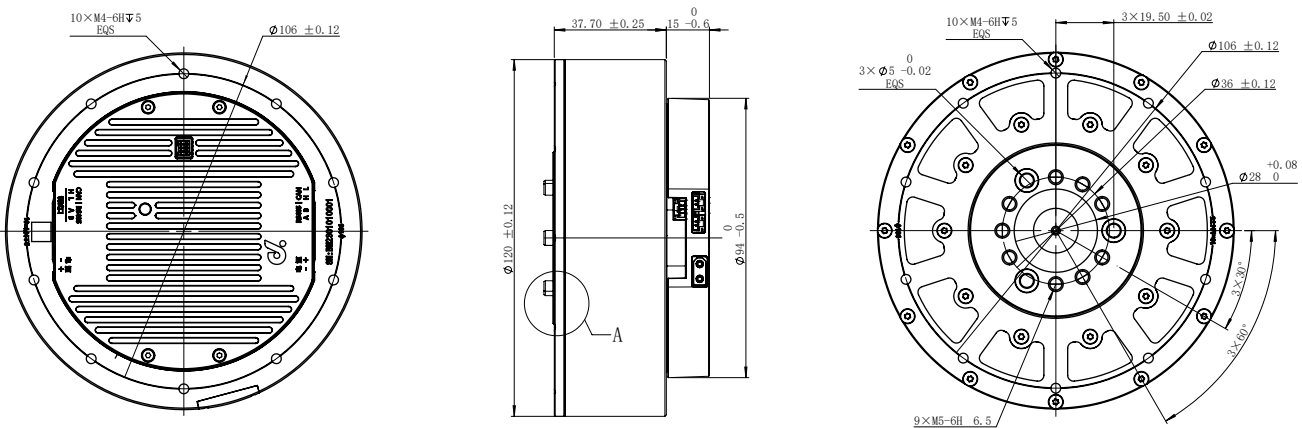
Product model
P1010B



Motor Parameters

Motor Parameters	Rated Voltage	24 VDC
	Rated Current (Busbar)	16±0.5 A
	Rated Torque	20 Nm
	Peak Torque	50 Nm
	Rated Speed	150±3 RPM
	Unload Velocity	200±5 RPM
Motor Characteristics	Reduction ratio	10 : 1
	Pole pairs	21
	Phase inductance	—
	Phase resistance	—
Structure & Weight	Outer diameter	120 mm
	Height	52.7 mm
	Weight	1.4 Kg
Encoder	Encoder Bits	15 Bits (Rotor position detection) +15 Bits (Absolute position detection)

Motor installation interface



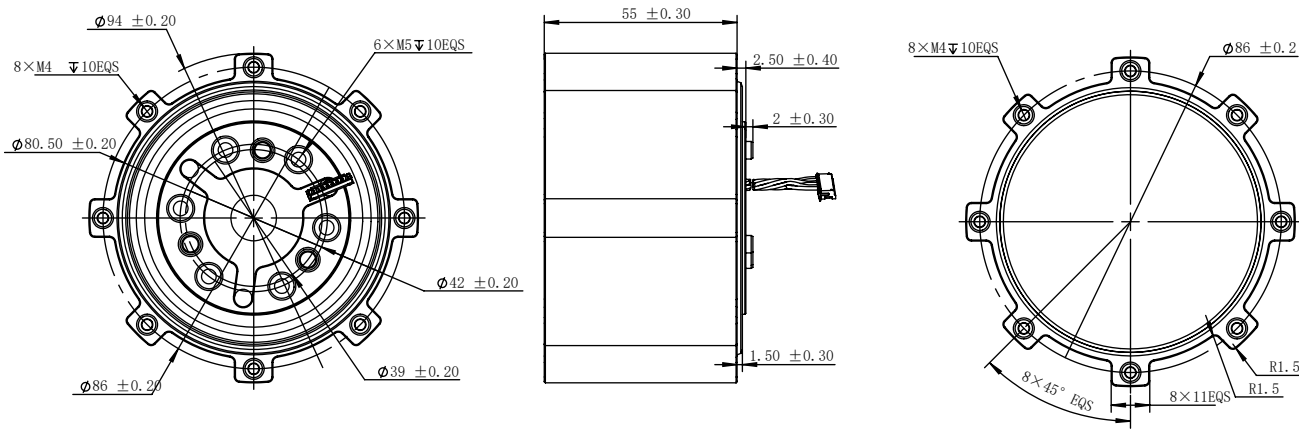
Product model
P0610A



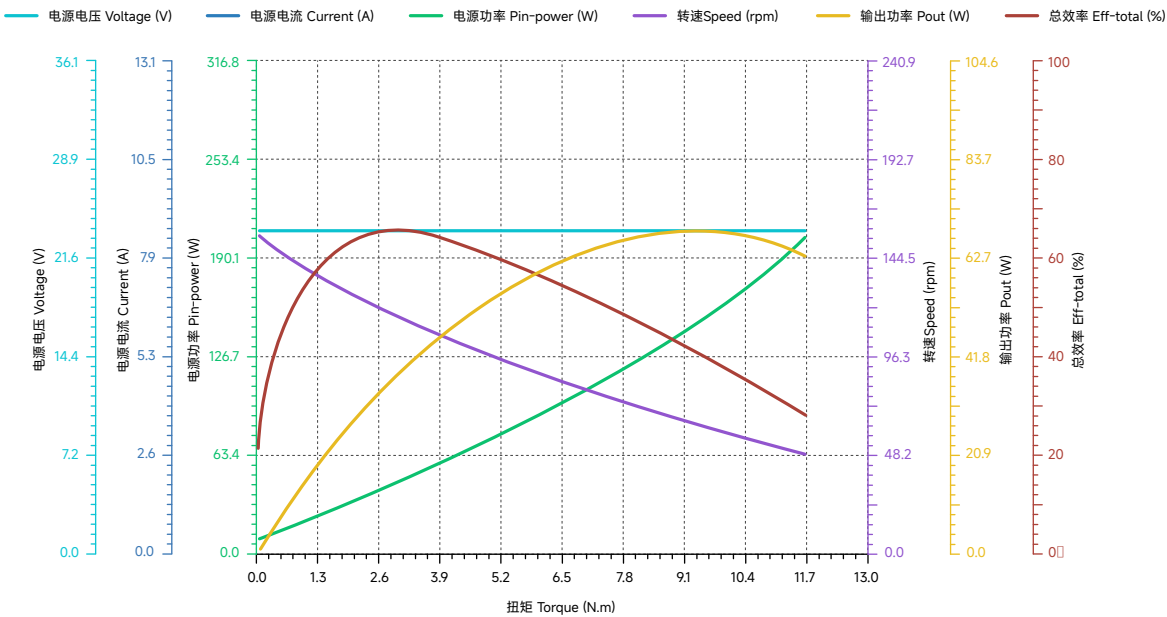
Motor Parameters

Size	mm	φ94*59	Noise Level	dB	≤55
Rated Voltage	VDC	24	Encoder Resolution	bit	12
Rated Power	W	32	Communication Protocol	—	CAN/485
Rated Torque	N.m	3	Ingress Protection Rating	—	IPX6
Stall Torque	N.m	12	Insulation Level	—	F
Rated Speed	rpm	100	Insulation Voltage	VAC/Hz	500/50
Unload Velocity	rpm	150	Ambient Temperature	°C	-20~105
Rated Current	A	2.2	Environment Humidity	%	< 85
Stall Current	A	8	Storage Temperature	°C	-20~65
Weight	g	600	Storage Humidity	%	< 85

Motor installation interface



Motor characteristic line chart



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LDROBOT
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ROBOTICS
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C

欧卡智船
ORCAUBOAT

POSITEC

SPARKOZ

智元机器人

SPEEDIANCE

IMBODY

*In no particular order