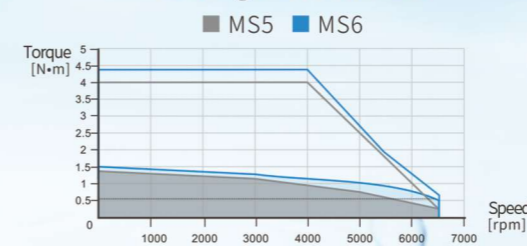
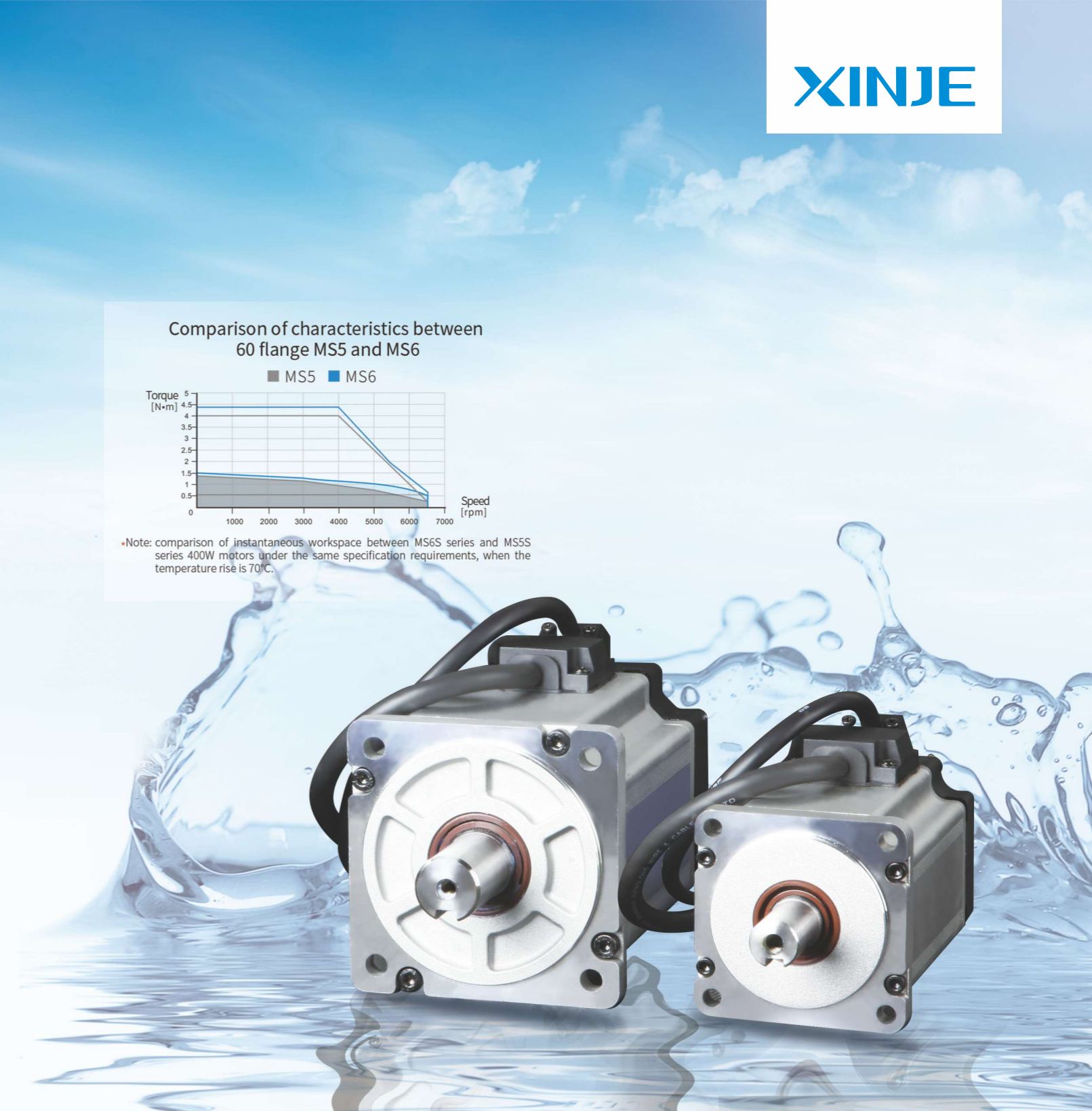


Comparison of characteristics between 60 flange MS5 and MS6



•Note: comparison of instantaneous workspace between MS6S series and MS5S series 400W motors under the same specification requirements, when the temperature rise is 70°C.



MS6 series high performance servo motor

Performance upgrade with lower temperature rise and tighter protection



XINJE WeChat

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Automation Trusted Partner

COMPANY INTRODUCTION

XINJE Electric Co., Ltd. is a prestigious company in China Mainland who dedicates to design, develop and manufacture the automation products and application systems.

Since its set up, the company insists the purpose of innovation, quick response and complete solutions to improve the enterprise competitiveness. Years of efforts get us numbers of patented technologies, which also help us to win many honors from government. They are High-Tech Enterprise Certificate, Leader of Innovation Enterprise Certificate and so on. We are also authorized to be Industrial Key Project Enterprise, Engineering Technology Research Center.

The company offers complete products line which covers PLC Programmable Logic Controllers, HMI Touch Panel Monitors, Servo Control Systems, Frequency Inverters, Vision Machine System, Robot Arms, Network products, etc. We make total automation solutions for customers. In this way, we help customers to improve their productivity, reduce production costs, maximize their profits, and promote their company's value. We XINJE Electric always grow together with our customers.

Up to now, XINJE Electric has more than 32 branches in China and more than 300 agents in China. We also have 1 branch in Germany and more than 20 distributors overseas. We sell our products all over the world, such as Europe, America, Asia, the Middle East and Africa etc. XINJE Electric has more than 2100 employees. The office building covers an area of 20000m² and multiple factory buildings cover an area of 71000m². We also have one R&D center, 4 laboratories, 42 training base. Our company cooperates with a number of universities in China, we established the University - XINJE Laboratory to train the technical engineers.

XINJE was also successfully listed at the Shanghai stock exchange in December, 2016. Our stock code is 603416. With the business philosophy of Innovation, Quality, Service, the company keeps developing and designing much qualified and reliable products, we aim to be a global automation solutions provider. We are committed to build a golden brand reputation in the industrial automation field.



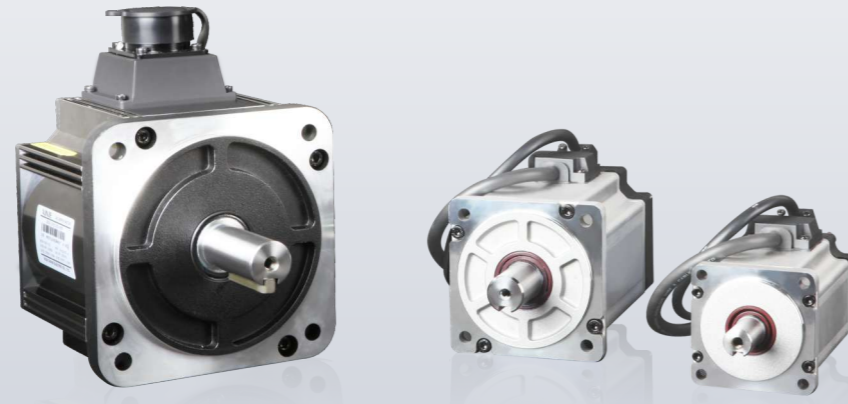
CATALOG

- 03 • Product Features
- 05 • Motor model and naming
- 06 • Motor specifications and parameters
- 08 • Motor torque frequency characteristics
- 10 • Motor dimension
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- 14 • Comparison of differences between MS6 and MS5 series

Overload capacity, overspeed range, temperature rise, and protection capability are common challenges faced by manufacturers

The birth of the **MS6** series high-performance servo motor solves everything easily

Power range 0.1~7.5KW
Compatible driver: DS5 series



Typical application

MS6 HIGH PERFORMANCE SERVO MOTOR

Suitable for various small and medium-sized automation equipment and instruments as follows:

- 01 Sausage machine
- 02 Mask machine
- 03 Winding machine
- 04 Sewing machine
- 05 Bag making machine
- 06 Pick up robotic arm
- 07 Sorter
- 08 Glass scanning machine

Logistics sorting machine



Mask machine

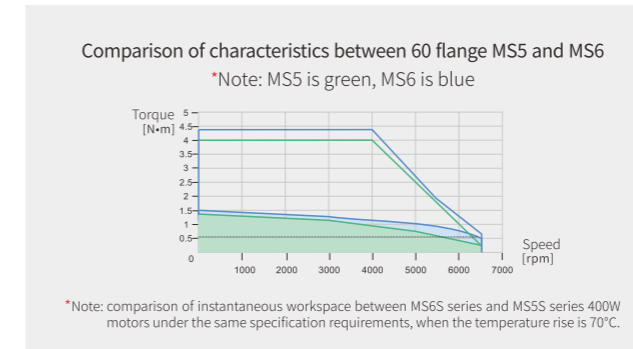


Sewing machine



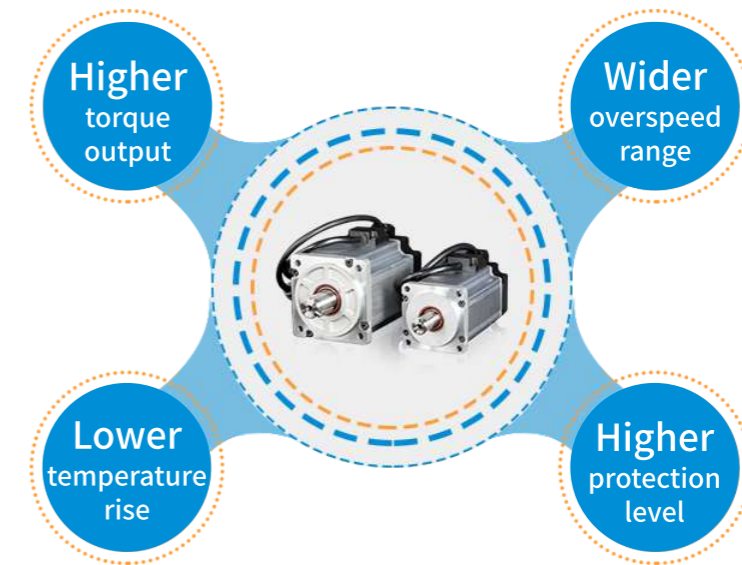
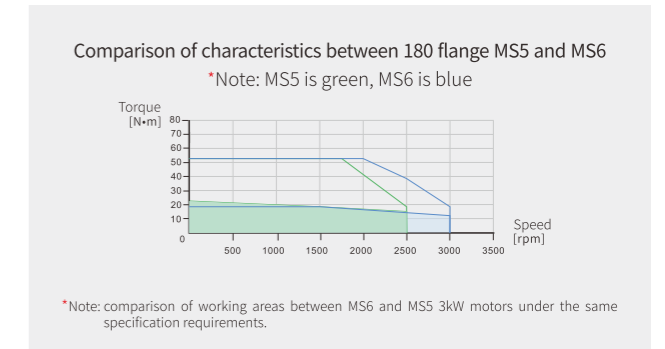
1 Higher torque output

The MS6 series 400W motor can currently exceed the speed limit to 6500rpm, while maintaining 80% of its rated torque at the highest speed.



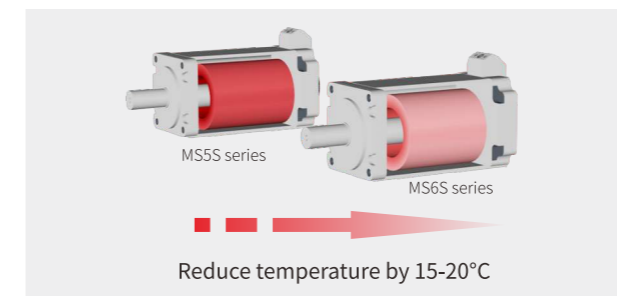
2 Wider overspeed range

The MS6 series 180 flange motor can exceed the speed limit by up to 3000rpm, which is 20% higher than the MS5 series.



3 Lower temperature rise

Compared with the MS5 series motor, the MS6 series motor has a more reasonable electromagnetic optimization design, reduce reactive power loss and achieve a general reduction of 15-20°C in winding temperature rise. (Frequent start stop, frequent forward and reverse rotation and other overload scenarios result in a more significant decrease in temperature rise)



4 Higher protection level

Compared with the MS5 series motor, the MS6 series motor optimizes the motor structure and further improves the protection level, reaching a protection level of IP66.



Motor model and naming

MS6 servo motor naming rule

MS6S-60 C S 30 B Z 1 -2 0P4

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Inertia type		② Flange		③ Encoder construction		④ Encoder specifications		⑤ Rated speed		⑩ Motor power	
Name	Inertia	Name	Flange	Name	Type	Name	Specification	Name	Rated speed (rpm)	Name	Rated power (kw)
MS6S	Low inertia	40	40 flange	C	Magnetic encoder	S	Single turn 17-bit	15	1500	0P1	0.1
MS6G	Medium inertia	60	60 flange	T	Optical encoder	M	Multi turn 17-bit	20	2000	0P2	0.2
MS6H	High inertia	80	80 flange			L	Multi turn 23-bit	25	2500	0P4	0.4
		100	100 flange					30	3000	0P7	0.75
		130	130 flange							0P8	0.85
		180	180 flange							1P0	1
										1P3	1.3
										1P5	1.5
										1P8	1.8
										2P0	2.0
										2P3	2.3
										3P0	3.0
										4P4	4.4
										5P5	5.5
										7P5	7.5

⑦ Power-off brake		⑨ Power supply voltage	
Name	Power-off brake	Name	Voltage
Z	With brake	2	220V
空	Without brake	4	380V

⑥ Shaft specification	
Name	Shaft specification
A	With key, without oil-proof, with tapped hole
B	With key, with oil-proof, with tapped hole
C	Without key, without oil-proof, with tapped hole
D	Without key, with oil-proof, with tapped hole
E	Special shaft (length, shaft diameter, etc.)

*Note: The provided explanation is only an example, please refer to the detailed parameters of the motor for specific models. Our company provides a combination of CS, CM, and TL models. Currently, only the MS6 series 180 flange 5.5KW and 7.5KW support special shaft specifications.

MS6 series motor model list

Power[kW]	Motor model	Flange[mm]	Rated speed[RPM]	Rated torque[Nm]	Inertia type	Encoder bit[bit]
0.1	MS6H-40CS/CM30B(Z)1-20P1	40	3000	0.32	High inertia	17
	MS6S-60CS/CM30B(Z)1-20P2	60	3000	0.64	Low inertia	17
0.2	MS6H-60CS/CM30B(Z)1-20P2	60	3000	0.64	High inertia	17
	MS6S-60CS/CM30B(Z)1-20P4	60	3000	1.27	Low inertia	17
0.4	MS6H-60CS/CM30B(Z)1-20P4	60	3000	1.27	High inertia	17
	MS6S-80CS/CM30B(Z)1-20P7	80	3000	2.39	Low inertia	17
0.75	MS6H-80CS/CM30B(Z)1-20P7	80	3000	2.39	High inertia	17
	MS6S-80CS/CM20B(Z)1-20P7	80	2000	3.50	Low inertia	17
0.85	MS6H-80CS/CM20B(Z)1-20P7	80	2000	3.50	High inertia	17
	MS6H-130CS/CM/TL15B(Z)2-20P8	130	1500	5.41	High inertia	17/23
1	MS6H-130CS/CM/TL15B(Z)2-40P8	130	1500	5.41	High inertia	17/23
	MS6S-80CS/CM30B(Z)1-21P0	80	3000	3.18	Low inertia	17
1.3	MS6H-80CS/CM30B(Z)1-21P0	80	3000	3.18	High inertia	17
	MS6S-100CS/CM30B(Z)2-21P0	100	3000	3.18	Low inertia	17
1.5	MS6H-130CS/CM/TL15B(Z)2-41P3	130	1500	8.30	High inertia	17/23
	MS6S-100CS/CM30B(Z)2-21P5	100	3000	4.78	Low inertia	17
1.8	MS6H-130CS/CM/TL20B(Z)2-21P5	130	2000	7.16	High inertia	17/23
	MS6H-130CS/CM/TL15B(Z)2-21P8	130	1500	11.5	High inertia	17/23
2	MS6H-130CS/CM/TL15B(Z)2-41P8	130	1500	11.5	High inertia	17/23
	MS6S-100CS/CM/TL30B(Z)2-22P0	100	3000	6.37	Low inertia	17/23
2.3	MS6H-130CS/CM/TL15B(Z)2-22P3	130	1500	14.6	High inertia	17/23
	MS6H-130CS/CM/TL15B(Z)2-42P3	130	1500	14.6	High inertia	17/23
3.0	MS6H-180CS/CM/TL15B(Z)2-43P0	180	1500	19.0	High inertia	17/23
	MS6H-180CS/CM/TL15B(Z)2-44P4	180	1500	28.0	High inertia	17/23
4.4	MS6H-180CS/CM/TL15B(Z)2-45P5	180	1500	35.0	High inertia	17/23
	MS6H-180CS/CM15E2-45P5	180	1500	35.0	High inertia	17
5.5	MS6H-180CS/CM/TL15B(Z)2-47P5	180	1500	47.8	High inertia	17/23
	MS6H-180CS/CM15E2-47P5	180	1500	47.8	High inertia	17

*Note: 1. B(Z) represents optional brake, non brake model is B, with brake model is BZ.
2. The product status marked in gray font is under development and will be launched one after another. Please look forward to it!
3. 60/80 or below models can be equipped with an optional engineering aviation plug.

Motor specification parameters

MS6 series motor specification

MS6 motor															
Item	100W	200W	400W	750W	850W	1.0kW	1.3kW	1.5kW	1.8kW	2.0kW	2.3kW	3.0kW	4.4kW	5.5kW	7.5kW
Low inertia MS6S		60	60	80		80 / 100		100		100					
High inertia MS6H	40	60	60	80	130	80	130	130	130		130	180	180	180	180

Note: 40/60/80 represents the motor flange. Provide models with a voltage level of 220V. Provide models with a voltage level of 380V. Provide models with voltage levels of 220V/380V. The motor marked with "" is still under development, please stay tuned.

MS6 series motor parameter list

Voltage level	AC 220V										
	MS6S-60		MS6H-60		MS6S-80				MS6H-80		
Motor model	CS/CM30B1	CS/CM30BZ1	CS/CM30B1	CS/CM30BZ1	CS/CM20B1	CS/CM20BZ1	CS/CM30B1	CS/CM30BZ1	CS/CM30B1	CS/CM30BZ1	CS/CM20B1
Motor code	20P4	20P4	20P4	20P4	20P7	20P7	20P7	20P7	20P7	20P7	20P7
Rated power [kW]	5005	5805	50C5	58C5	5013	5813	5007	5807	50D7	58D7	50D3
Rated speed [rpm]	0.4	0.4	0.4	0.4	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Max speed [rpm]	3000	3000	3000	3000	2000	2000	3000	3000	3000	3000	2000
Rated torque [Nm]	6500	6500	6000	6000	3000	3000	5200	5200	5200	5200	3000
Max torque [Nm]	1.27	1.27	1.27	1.27	3.5	3.5	2.39	2.39	2.39	2.39	3.5
Rated current [mA]	4.445	4.445	4.445	4.445	10.5	10.5	7.17	7.17	7.17	7.17	10.5
Rotor inertia [10 ⁻⁴ kg.m ²]	2700	2700	2600	2600	4100	4100	4000	4000	4100	4100	4100
Inertia type	273	282	520	590	1208	1261	980	1030	1670	1691	2445
Recommended inertia ratio for rotors	Low inertia	Low inertia	High inertia	High inertia	Low inertia	Low inertia	Low inertia	Low inertia	High inertia	High inertia	High inertia
Pole pairs number	30	30	30	30	20	20	20	20	20	20	20
Encoder bit	5	5	5	5	5	5	5	5	5	5	5
Encoder type	17	17	17	17	17	17	17	17	17	17	17
Motor insulation grade	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic
Protection level	ClassF(155°C)										
Using environment	IP66										
Ambient temperature	-15°C~+40°C										
Ambient humidity	Relative humidity <90% (non condensing)										

Voltage level	AC 220V								AC 380V				
	MS6H-80		MS6S-100		MS6H-130								
Motor model	CS/CM20BZ2	CS/CM30B2	CS/CM30BZ2	CS/CM15B2	CS/CM15BZ2	TL15B2	TL15BZ2	CS/CM15B2	CS/CM15BZ2	TL15B2	TL15BZ2	CS/CM15B2	CS/CM15BZ2
Motor code	20P7	21P5	21P5	20P8	20P8	20P8	20P8	40P8	40P8	40P8	40P8	41P3	41P3
Rated power [kW]	58D3	5083	5883	5082	5882	9082	9882	5182	5982	9182	9982	5181	5981
Rated speed [rpm]	0.75	1.5	1.5	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	1.3	1.3
Max speed [rpm]	2000	3000	3000	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Rated torque [Nm]	3000	4500	4500	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Max torque [Nm]	3.5	4.8	4.8	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	8.3	8.3
Rated current [mA]	10.5	12	12	16.23	16.23	16.23	16.23	16.23	16.23	16.23	16.23	24.9	24.9
Rotor inertia [10 ⁻⁴ kg.m ²]	4100	8000	8000	6000	6000	6000	6000	3500	3500	3500	3500	6000	6000
Inertia type	2553	2812	2888	13860	15340	13860	15340	13860	15340	13860	15340	20000	21440
Recommended inertia ratio for rotors	High inertia	Low inertia	Low inertia	High inertia	High inertia	High inertia	High inertia	High inertia	High inertia	High inertia	High inertia	High inertia	High inertia
Pole pairs number	20	15	15	10	10	10	10	10	10	10	10	10	10
Encoder bit	5	5	5	5	5	5	5	5	5	5	5	5	5
Encoder type	17	17	17	17	17	23	23	17	17	23	23	17	17
Motor insulation grade	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	Optical	Optical	Magnetic	Magnetic	Optical	Optical	Magnetic	Magnetic
Protection level	ClassF(155°C)												
Using environment	IP66												
Ambient temperature	IP65												
Ambient humidity	-15°C~+40°C												
	Relative humidity <90% (non condensing)												

Note: Products marked with "" are under development, please stay tuned!

Continued table

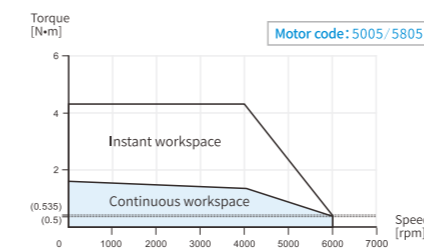
Voltage level	AC 380V				AC 220V				AC 380V				AC 220V			
Motor model	MS6H-130															
Motor code	TL15B2	TL15BZ2	CS/CM20B2	CS/CM20BZ2	TL20B2	TL20BZ2	CS/CM15B2	CS/CM15BZ2	TL15B2	TL15BZ2	CS/CM15B2	CS/CM15BZ2	TL15B2	TL15BZ2	CS/CM15B2	CS/CM15BZ2
Rated power [kW]	41P3	41P3	21P5	21P5	21P5	21P5	21P8	21P8	21P8	21P8	41P8	41P8	41P8	41P8	22P3	22P3
Rated speed [rpm]	1500	1500	2000	2000	2000	2000	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Max speed [rpm]	3000	3000	3000	3000	3000	3000	2500	2500	2500	2500	3000	3000	3000	3000	2500	2500
Rated torque [Nm]	8.3	8.3	7.16	7.16	7.16	7.16	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	14.6	14.6
Max torque [Nm]	24.9	24.9	17.9	17.9	17.9	17.9	34.5	34.5	34.5	34.5	28.75	28.75	28.75	28.75	36.5	36.5
Rated current [mA]	6000	6000	8000	8000	8000	8000	10000	10000	10000	10000	7400	7400	7400	7400	11800	11800
Rotor inertia [10 ⁻⁴ ·kg·m ²]	20000	21440	20000	21440	20000	21440	28500	29940	28500	29940	28500	29940	28500	28500	35240	35240
Inertia type	High inertia															
Recommended inertia ratio for rotors	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pole pairs number	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Encoder bit	23	23	17	17	23	23	17	17	23	23	17	17	23	23	17	17
Encoder type	Optical	Optical	Magnetic	Magnetic	Optical	Optical	Magnetic	Magnetic	Optical	Optical	Magnetic	Magnetic	Optical	Optical	Magnetic	Magnetic
Motor insulation grade	ClassF(155°C)															
Protection level	IP65															
Using environment	Ambient temperature: -15°C~+40°C Ambient humidity: Relative humidity <90% (non condensing)															

Voltage level	AC 220V				AC 380V				AC 380V				AC 380V			
Motor model	MS6H-180															
Motor code	CS/CM15BZ2	TL15B2	TL15BZ2	CS/CM15B2	CS/CM15BZ2	TL15B2	TL15BZ2	CS/CM15B2	CS/CM15BZ2	TL15B2	TL15BZ2	CS/CM15B2	CS/CM15BZ2	TL15B2	TL15BZ2	CS/CM15B2
Rated power [kW]	22P3	22P3	22P3	42P3	42P3	42P3	42P3	43P0	43P0	43P0	43P0	44P4	44P4	44P4	44P4	44P4
Rated speed [rpm]	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Max speed [rpm]	2500	2500	2500	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Rated torque [Nm]	14.6	14.6	14.6	14.6	14.6	14.6	14.6	19	19	19	19	28	28	28	28	28
Max torque [Nm]	36.5	36.5	36.5	36.5	36.5	36.5	36.5	51.3	51.3	51.3	51.3	84	84	84	84	84
Rated current [mA]	11800	11800	11800	8500	8500	8500	8500	11000	11000	11000	11000	16500	16500	16500	16500	16500
Rotor inertia [10 ⁻⁴ ·kg·m ²]	36260	35240	36260	35240	36260	35240	36260	51000	55490	51000	55490	73280	78040	73280	78040	78040
Inertia type	High inertia															
Recommended inertia ratio for rotors	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pole pairs number	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Encoder bit	17	23	23	17	17	23	23	17	17	23	23	17	17	23	23	17
Encoder type	Magnetic	Magnetic	Optical	Magnetic	Magnetic	Optical	Optical	Optical	Optical	Optical	Optical	Magnetic	Magnetic	Magnetic	Magnetic	Magnetic
Motor insulation grade	ClassF(155°C)															
Protection level	IP65															
Using environment	Ambient temperature: -15°C~+40°C (not frozen) Ambient humidity: Relative humidity <90% (non condensing)															

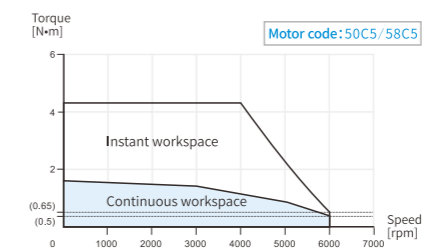
Voltage level	AC 380V									
Motor model	MS6H-180									
Motor code	TL15B2	TL15BZ2	CS/CM15B/E2	CS/CM15BZ/E2	TL15B2	TL15BZ2	CS/CM15B/E2	CS/CM15BZ/E2	TL15B2	TL15BZ2
Rated power [kW]	44P4	44P4	45P5	45P5	45P5	45P5	47P5	47P5	47P5	47P5
Rated speed [rpm]	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Max speed [rpm]	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Rated torque [Nm]	28	28	35	35	35	35	48	48	48	48
Max torque [Nm]	84	84	87.5	87.5	87.5	87.5	120	120	120	120
Rated current [mA]	16500	16500	19700	19700	19700	19700	25000	25000	25000	25000
Rotor inertia [10 ⁻⁴ ·kg·m ²]	73280	78040	90250	95200	90250	95200	132000	134690	132000	134690
Inertia type	High inertia									
Recommended inertia ratio for rotors	10	10	10	10	10	10	10	10	10	10
Pole pairs number	5	5	5	5	5	5	5	5	5	5
Encoder bit	23	23	17	17	23	23	17	17	23	23
Encoder type	Optical	Optical	Magnetic	Magnetic	Optical	Optical	Magnetic	Magnetic	Optical	Optical
Motor insulation grade	ClassF(155°C)									
Protection level	IP65									
Using environment	Ambient temperature: -15°C~+40°C (not frozen) Ambient humidity: Relative humidity <90% (non condensing)									

MS6 series motor torque frequency characteristics

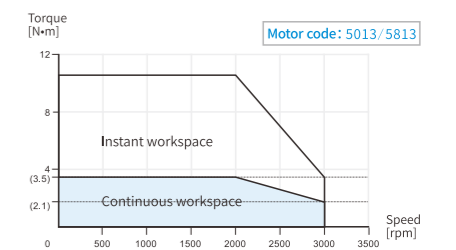
MS6S-60CS/CM30B(Z)□-20P4



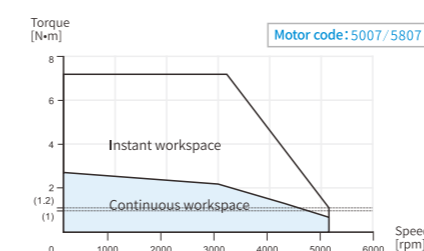
MS6H-60CS/CM30B(Z)□-20P4



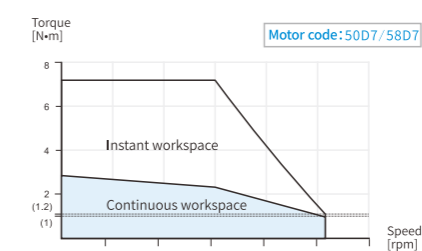
MS6S-80CS/CM20B(Z)□-20P7



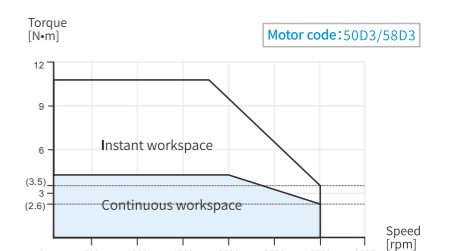
MS6S-80CS/CM30B(Z)□-20P7



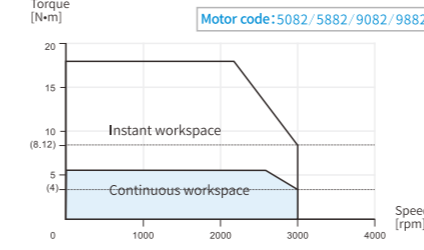
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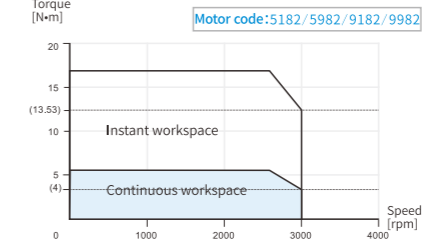
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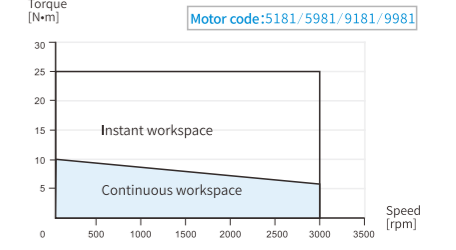
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MS6H-130TL15B(Z)2-20P8



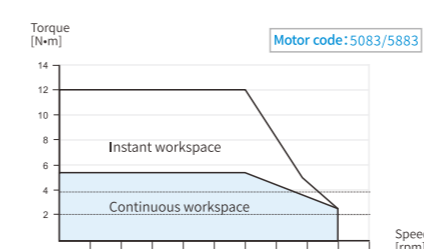
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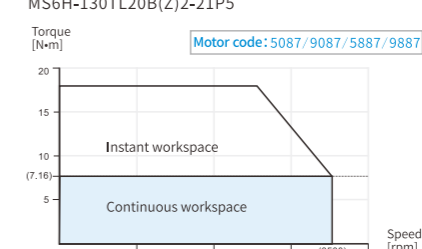
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MS6H-130TL15B(Z)2-41P3



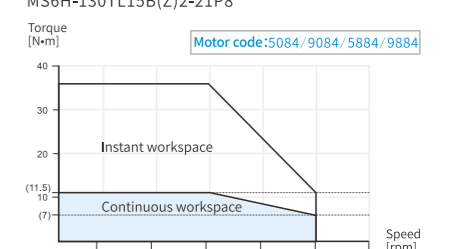
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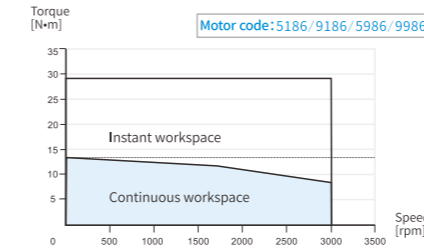
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MS6H-130TL20B(Z)2-21P5



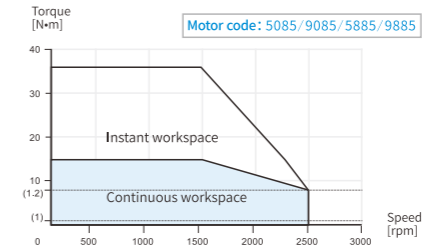
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MS6H-130TL15B(Z)2-21P8



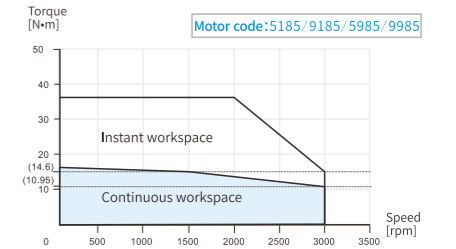
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MS6H-130TL15B(Z)2-41P8



MS6H-130CS/CM15B(Z)2-22P3
MS6H-130TL15B(Z)2-22P3

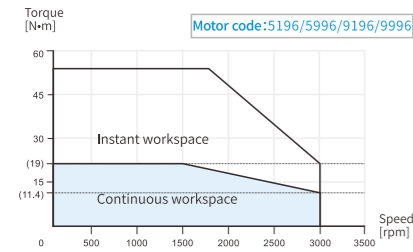


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MS6H-130TL15B(Z)2-42P3

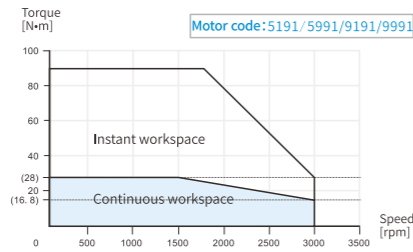


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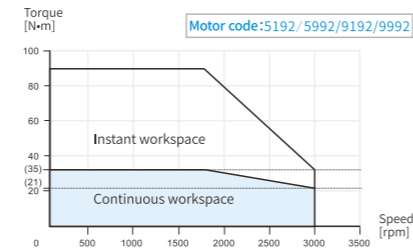
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MS6H-180TL15B(Z)□-43P0



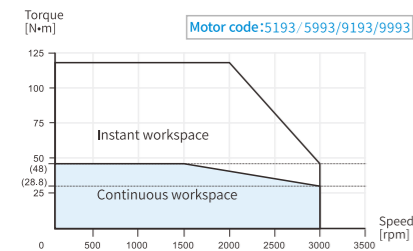
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MS6H-180TL15B(Z)□-44P4



MS6H-180CS/CM15B(Z)□-45P5
MS6H-180TL15B(Z)□-45P5



MS6H-180CS/CM15B(Z)□-47P5
MS6H-180TL15B(Z)□-47P5



Brake specification

Motor Brake parameter	MS6 series				
	60 flange	80 flange	100 flange*	130 flange	180 flange
Static friction torque [NM]	≥1.3	≥2.5	≥8	≥15	≥58
Rated power [W]	7.2	8	14.4	25	30
Attraction time [ms]	<50	<80	<100	<100	<180
Release time [ms]	<20	<40	<60	<60	<80
Excitation current DC [A]	0.3	0.233	0.6	1	1.25
Attraction voltage DC [V]	<18	<16.8	<18.2	<16.8	<16.8
Release voltage DC [V]	>1.5	>1	>1.5	>1.5	>1.5
Excitation voltage DC [V]	DC24±10%				

Note: Products marked with "" are under development, please stay tuned!

Motor axial force and radial force specifications

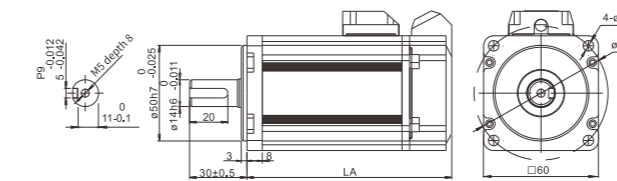
Flange (mm)	40	60	80	100	130	180
Axial force (N)	54	74	147	≤200	300	400
Radial force (N)	78	245	392	500	600	800

MS6 motor dimension

(Unit: mm)

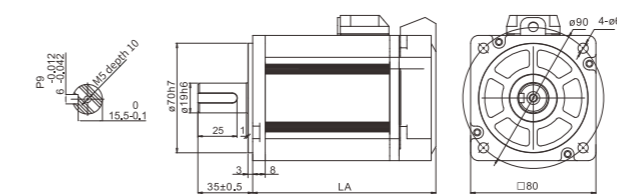
60 flange

Motor model	LA±1		Inertia level	Ms6 is longer than MS5(mm)
	Normal	With brake		
MS6S-60C□30B□□-20P4	107	139	Low inertia	8
MS6H-60C□30B□□-20P4	119	151	High inertia	5



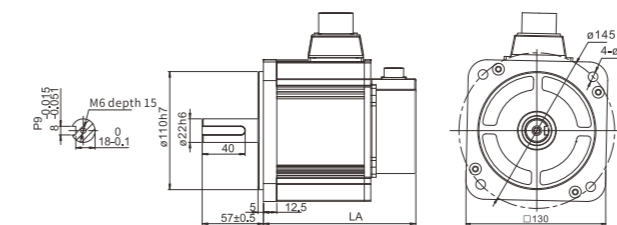
80 flange

Motor model	LA±1		Inertia level	Ms6 is longer than MS5(mm)
	Normal	With brake		
MS6S-80C□30B□□-20P7	117	150	Low inertia	10
MS6H-80C□30B□□-20P7	124	157	High inertia	5
MS6S-80C□20B□□-20P7	127	160	Low inertia	-52
MS6H-80C□20B□□-20P7	149	182	High inertia	-30



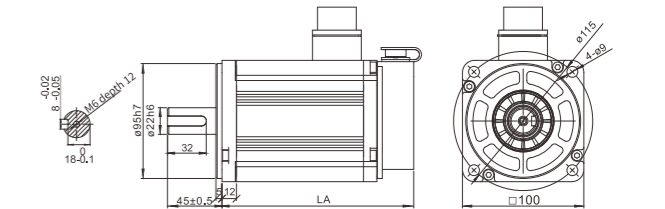
130 flange

Motor model	LA±1		Inertia level
	Normal	With brake	
MS6H-130C□15B□2-20P8	126	156	High inertia
MS6H-130TL15B□2-20P8	142	172	
MS6H-130C□15B□2-40P8	126	156	
MS6H-130TL15B□2-40P8	142	172	
MS6H-130C□15B□2-41P3	148	178	
MS6H-130TL15B□2-41P3	164	194	
MS6H-130C□20B□2-21P5	148	178	
MS6H-130TL20B□2-21P5	164	194	
MS6H-130C□15B□2-21P8	175	205	
MS6H-130TL15B□2-21P8	191	221	
MS6H-130CS□15B□2-41P8	175	205	
MS6H-130TL15B□2-41P8	191	221	
MS6H-130C□15B□2-22P3	195.6	225.6	
MS6H-130TL15B□2-22P3	211.6	241.6	
MS6H-130C□15B□2-42P3	195.6	225.6	
MS6H-130TL15B□2-42P3	211.6	241.6	



100 flange

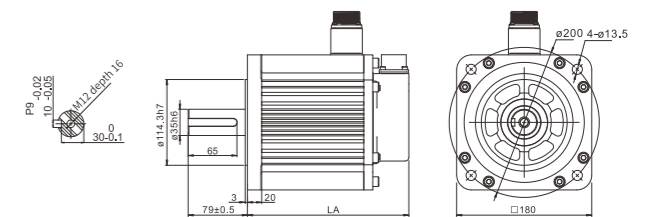
Motor model	LA±1		Inertia level
	Normal	With brake*	
MS6S-100CS/CM30B2-21P5	158.5	202.4*	Low inertia



Note: Products marked with "" are under development, please stay tuned!

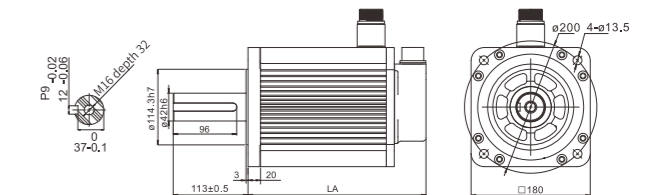
180 flange

Motor model	LA±1		Inertia level
	Normal	With brake	
MS6H-180C□15B2-43P0	215	255	High inertia
MS6H-180TL15B2-43P0	215	255	
MS6H-180C□15B2-44P4	247	287	
MS6H-180TL15B2-44P4	247	287	



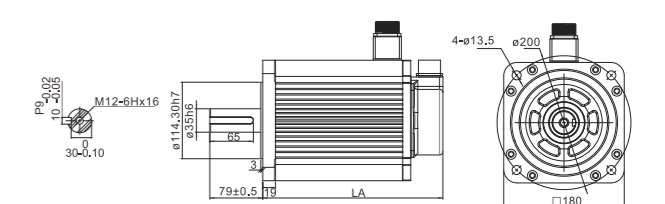
180 flange (continued)

Motor model	LA±1		Inertia level
	Normal	With brake	
MS6H-180C□15B2-45P5	269	309	High inertia
MS6H-180TL15B2-45P5	269	309	
MS6H-180C□15B2-47P5	325	365	
MS6H-180TL15B2-47P5	325	365	



180 flange (continued)

Motor model	LA±1		Inertia level
	Normal	With brake	
MS6H-180C□15E2-45P5	269	-	High inertia
MS6H-180C□15E2-47P5	325	-	



Continued table

DS5L1, 5C1											
Power(kw)	Inertia level	Motor model	Motor code	Adaptive driver	Voltage level	Encoder cable	Power cable	Brake cable	Cable accessory package		
0.4	Low inertia	MS6S-60CS30B1-20P4	5005	DS5L1/C1-20P4-PTA	AC 220V	CP(T)-SP-M-length	CM(T)-P07A-M-length	/	JAM-P9-P4		
		MS6S-60CM30B1-20P4	5805			CP(T)-SP-BM-length	CM(T)-P07A-M-length	/	JAM-P9-P4		
		MS6S-60CS30BZ1-20P4	5005			CP(T)-SP-M-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
		MS6S-60CM30BZ1-20P4	5805			CP(T)-SP-BM-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
		MS6H-60CS30B1-20P4	50C5			CP(T)-SP-M-length	CM(T)-P07A-M-length	/	JAM-P9-P4		
		MS6H-60CM30B1-20P4	58C5			CP(T)-SP-BM-length	CM(T)-P07A-M-length	/	JAM-P9-P4		
	High inertia	MS6H-60CS30BZ1-20P4	50C5			CP(T)-SP-M-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
		MS6H-60CM30BZ1-20P4	58C5			CP(T)-SP-BM-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
		MS6S-80CS20B1-20P7	5013			CP(T)-SP-M-length	CM(T)-P07A-M-length	/	JAM-P9-P4		
		MS6S-80CM20B1-20P7	5813			CP(T)-SP-BM-length	CM(T)-P07A-M-length	/	JAM-P9-P4		
		MS6H-80CS20B1-20P7	50D3			CP(T)-SP-M-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
		MS6H-80CM20B1-20P7	58D3			CP(T)-SP-BM-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
0.75	Low inertia	MS6S-80CS20BZ1-20P7	5007	DS5L1/C1-20P7-PTA	AC 220V	CP(T)-SP-M-length	CM(T)-P07A-M-length	/	JAM-P9-P4		
		MS6S-80CM20BZ1-20P7	5807			CP(T)-SP-BM-length	CM(T)-P07A-M-length	/	JAM-P9-P4		
		MS6H-80CS20B1-20P7	50D7			CP(T)-SP-M-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
		MS6H-80CM20B1-20P7	58D7			CP(T)-SP-BM-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
		MS6S-80CS30B1-20P7	5007			CP(T)-SP-M-length	CM(T)-P07A-M-length	/	JAM-P9-P4		
		MS6S-80CM30B1-20P7	5807			CP(T)-SP-BM-length	CM(T)-P07A-M-length	/	JAM-P9-P4		
	High inertia	MS6H-80CS30B1-20P7	50D7			CP(T)-SP-M-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
		MS6H-80CM30B1-20P7	58D7			CP(T)-SP-BM-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
		MS6H-80CS30BZ1-20P7	50D7			CP(T)-SP-M-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
		MS6H-80CM30BZ1-20P7	58D7			CP(T)-SP-BM-length	CM(T)-P07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2		
		MS6S-80CS30B2-20P4	5005			DS5L1/C1-20P4-PTA	AC 220V	CP(T)-SV-M-length	CMT-V07A-M-length	/	JAM-V7-V4
		MS6S-60CM30B2-20P4	5805					CP(T)-SV-BM-length	CMT-V07A-M-length	/	JAM-V7-V4
MS6S-60CS30BZ2-20P4	5005	CP(T)-SV-M-length	CMBT-V07A-M-length	/	JAM-V7-V6						
MS6S-60CM30BZ2-20P4	5805	CP(T)-SV-BM-length	CMBT-V07A-M-length	/	JAM-V7-V6						
MS6H-60CS30B2-20P4	50C5	CP(T)-SV-M-length	CMT-V07A-M-length	/	JAM-V7-V4						
MS6H-60CM30B2-20P4	58C5	CP(T)-SV-BM-length	CMT-V07A-M-length	/	JAM-V7-V4						
High inertia	MS6H-60CS30BZ2-20P4	50C5	CP(T)-SV-M-length	CMBT-V07A-M-length	/			JAM-V7-V6			
	MS6H-60CM30BZ2-20P4	58C5	CP(T)-SV-BM-length	CMBT-V07A-M-length	/			JAM-V7-V6			
	MS6S-80CS20B2-20P7	5013	CP(T)-SV-M-length	CMT-V07A-M-length	/			JAM-V7-V4			
	MS6S-80CM20B2-20P7	5813	CP(T)-SV-BM-length	CMT-V07A-M-length	/			JAM-V7-V4			
	MS6H-80CS20B2-20P7	50D3	CP(T)-SV-M-length	CMBT-V07A-M-length	/			JAM-V7-V6			
	MS6H-80CM20B2-20P7	58D3	CP(T)-SV-BM-length	CMBT-V07A-M-length	/			JAM-V7-V6			
Low inertia	MS6S-80CS20BZ2-20P7	5007	DS5L1/C1-20P7-PTA	AC 220V	CP(T)-SV-M-length	CMT-V07A-M-length	/	JAM-V7-V4			
	MS6S-80CM20BZ2-20P7	5807			CP(T)-SV-BM-length	CMT-V07A-M-length	/	JAM-V7-V4			
	MS6H-80CS20B1-20P7	50D3			CP(T)-SV-M-length	CMBT-V07A-M-length	/	JAM-V7-V6			
	MS6H-80CM20B1-20P7	58D3			CP(T)-SV-BM-length	CMBT-V07A-M-length	/	JAM-V7-V6			
	MS6S-80CS30B2-20P7	5007			CP(T)-SV-M-length	CMT-V07A-M-length	/	JAM-V7-V4			
	MS6S-80CM30B2-20P7	5807			CP(T)-SV-BM-length	CMT-V07A-M-length	/	JAM-V7-V4			
High inertia	MS6H-80CS30B2-20P7	50D7			CP(T)-SV-M-length	CMBT-V07A-M-length	/	JAM-V7-V6			
	MS6H-80CM30B2-20P7	58D7			CP(T)-SV-BM-length	CMBT-V07A-M-length	/	JAM-V7-V6			
	MS6H-80CS30BZ2-20P7	50D7			CP(T)-SV-M-length	CMT-V07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2			
	MS6H-80CM30BZ2-20P7	58D7			CP(T)-SV-BM-length	CMT-V07A-M-length	CB(T)-P03-length	JAM-P9-P4-P2			
	MS6S-80CS30B2-20P7	5007			CP(T)-SV-M-length	CMT-V07A-M-length	/	JAM-V7-V4			
	MS6S-80CM30B2-20P7	5807			CP(T)-SV-BM-length	CMT-V07A-M-length	/	JAM-V7-V4			

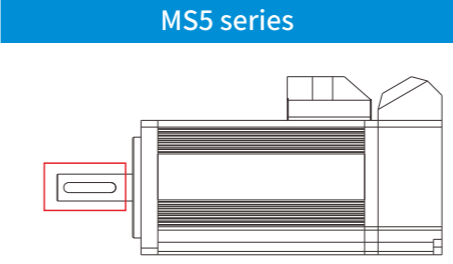
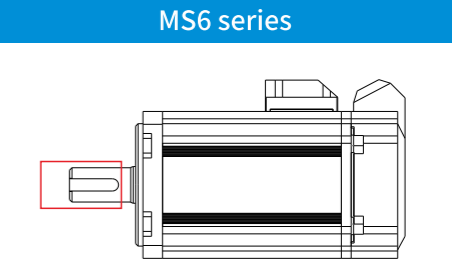
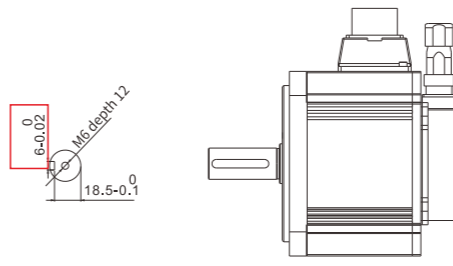
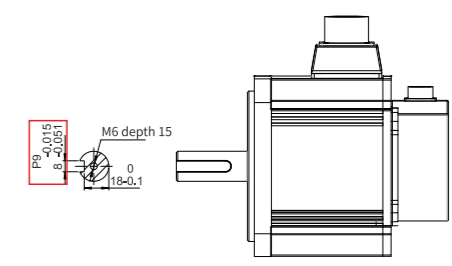
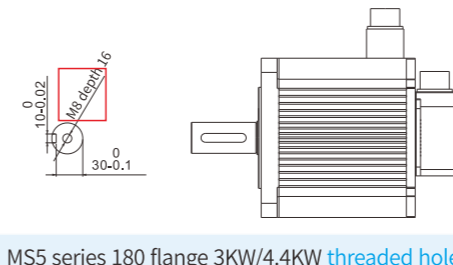
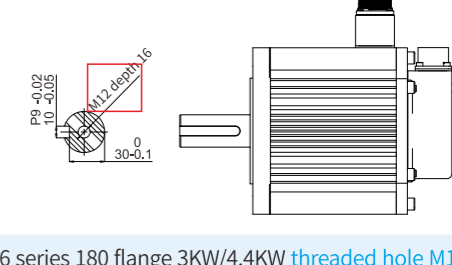
80 flange and below small aviation plug adaptation table

Comparison of differences between MS6 and MS5 series

Differences in compatibility with drivers

	MS5 series	MS6 series
1	MS5G series 130 flange 20P8 motor compatible driver DS5E/L/C/F/K-20P7-PTA	MS6H series 130 flange 20P8 motor compatible driver DS5L/E/C/K/F-21P0-PTA
2	MS5G series 130 flange 21P8 motor compatible driver DS5E/L/C/F/K-21P5-PTA	MS6H series 130 flange 21P8 motor compatible driver DS5E/L/C/F/K-22P6-PTA
3	MS5G series 130 flange 22P3 motor compatible driver DS5E/L/C/F/K-22P3-PTA	MS6H series 130 flange 22P3 motor compatible driver DS5E/L/C/F/K-22P6-PTA
4	MS5G series 180 flange motor compatible driver DS5 series general servo driver/Enhanced servo driver (-H)	MS6H series 180 flange motor compatible driver Only fit for DS5 series enhanced servo driver (-H)

Difference in motor structure

	MS5 series	MS6 series
1	 <p>MS5 series use closed slots</p>	 <p>MS6 series use open slots</p>
2	 <p>MS5 series 130 flange keyway width 6mm</p>	 <p>MS6 series 130 flange keyway width 8mm</p>
3	 <p>MS5 series 180 flange 3KW/4.4KW threaded hole M8 depth 16</p>	 <p>MS6 series 180 flange 3KW/4.4KW threaded hole M12 depth 16</p>