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Industrial automation trust partner





SERVO SYSTEM

DS5 Servo Driver/MS Servo Motor

Product lineup

Product lineup



From pulse type to bus type, from single driver to integrated driver and control machine, it can meet the requirements of all kinds of systems









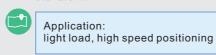








0.1~2.0KW





MS5G Middle Inertia

0.85~7.5KW

Application: general load, high requirement for stability



MS5H High Inertia

0.2~1.0KW

Application: large load, high requirement for stability Excellent product performance Excellent product performance

NEW

Servo Motor MS5 / MS6

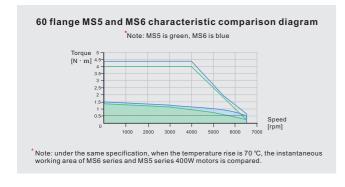
- · Smaller size
- · More accurate positioning
- · Faster speed and greater torque





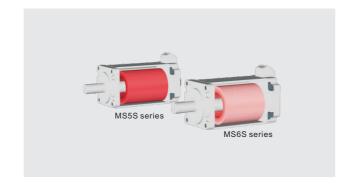
Higher torque output MS6 series

At present, the speed of MS6 series 400W motor can exceed to 6500rpm, and the maximum speed still keeps 60% of the rated output.



Lower temperature rise MS6 series

Ms6 series motors can reduce the reactive power loss and the winding temperature rise by 15 ~ 20 °C through more reasonable electromagnetic optimization design (compared with MS5 series motors).



Lighter motor

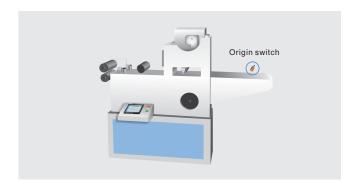
- · The motor is 34% shorter than the previous generation.
- \cdot With mobile mechanism, the quality is lighter.

*Take MS5S-60STE-CS01330B-S01 as an example



No origin switch

Absolute value encoder, cancel hardware switch signal, reduce the occurrence of fault.



Higher protection level MS6 series

Compared with MS5 series, MS6 series motor further improves the protection level, up to IP66.



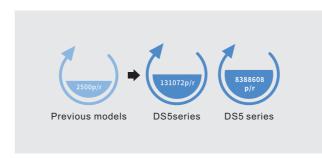
Optional for special occasions

- · Small power can be equipped with S02 small aviation plug interface.
- · Wet, greasy environment is more durable.



Encoder resolution

- · 17/23 bits communication type encoder.
- \cdot Achieve higher precision position control and stable operation at low speed.
- · The magnetic encoder is oil resistant and vibration resistant.



Flexible configuration to meet different needs

- · Low inertia, medium inertia and high inertia motors for choice.
- · Power loss brake, oil seal are optional.



Excellent product performance

DS5 Series Driver

- · Precise synchronization
- · High-speed response
- · Fast adjustment, Easy to use





Smaller size, saving installation space

- \cdot 35%thinner than the previous generation
- $\cdot \ \mathsf{Save} \ \mathsf{installation} \ \mathsf{space}$

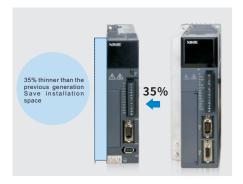
*Note: take DS5E-20P4-PTA as an example.

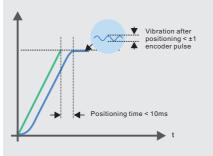
High speed response

- The rigid gain adjustment mode of servo system is self-tuning mode, without complicated adjustment process, which greatly saves debugging time.
- · By further gain adjustment, the positioning completion time can be reduced to 0~10ms.

Quick adjustment, shorter positioning time

- $\,\cdot\,$ Load inertia estimation, search for the optimal gain, positioning time within 20ms.
- Further gain tuning can shorten the positioning completion time to 0~10ms.
- · Driver panel offline adjustment.
- · 63 rigidity grade covers.

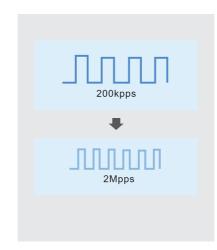






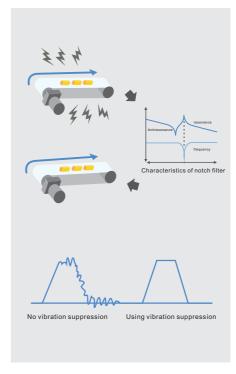
High speed pulse input

- · DS5F supports 2Mpps long-line receiving.
- All series of driver supports 200kpps (collector input), DS5F/DS5K series driver supports 500kpps (differential input).



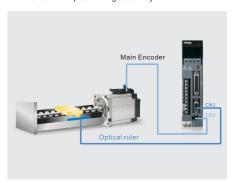
Active/manual vibration suppression

- · Support 1 channel active vibration suppression.
- Equipped with 5 notch filters, combined with the vibration mechanical characteristics analysis function, improve the vibration suppression ability.
- \cdot The filter set frequency is 50 ~ 5000Hz, and the depth can be adjusted.
- \cdot Optimize friction compensation and disturbance observation algorithm.



Full closed loop input

· Reduce the mechanical disturbance, determine the location of the mechanical load terminal, and ensure the positioning accuracy.



Integrated driving and control

- · Built in electronic cam.
- · The pulse and RS485 communication wiring are omitted, and the wiring is simple.
- · Save installation space of electrical cabinet.





Synchronous clock

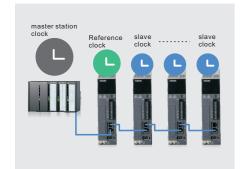
- Through the precise adjustment of the EtherCAT distributed clock, 300 nodes 120 m distance, 15 ns synchronization error and ±20ns synchronization jitter can be realized.
- · Transmission rate: 2×100Mbps (full duplex)

High speed grasping

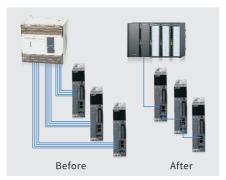
- \cdot Support 2 channels of touch probe function.
- · Response time can up to 1ms.

Network topology to reduce wiring costs

 The standard RJ45 Industrial Ethernet fast interface is adopted to greatly reduce the labor cost and time loss of wiring.







Typical application

CNC machine tool

CNC machine tool is the abbreviation of digital control machine tool. It is a kind of automatic machine tool equipped with program control system. The control system can logically process the program with control code or other symbol instructions, decode it, express it with coded numbers, and input it into the numerical control device through the information carrier. After calculation and processing, the CNC device sends out various control signals to control the action of the machine tool, and automatically processes the parts according to the shape and size required by the drawings. CNC machine tool is a kind of flexible and efficient automatic machine tool, which can solve the problem of complex, precision, small batch and multi variety of parts processing. It represents the development direction of modern machine tool control technology and is a typical mechatronic product.

Mechanical arm

Robot arm is the most widely used automatic mechanical device in the field of robotics. It can be seen in industrial manufacturing, medical treatment, entertainment service, military, semiconductor manufacturing, space exploration and other fields. Although their shapes are different, they all have a common feature, that is, they can receive instructions and accurately locate a point in three-dimensional or two-dimensional space for operation.

High speed cutting machine

High speed cutting machine is a combination of ultrasonic fusing technology and traditional shearing. When the ultrasonic generator is working, the ultrasonic energy is transmitted to the welding head through the ultrasonic transducer, and violent vibration and friction are generated between the ultrasonic energy and the cutting die, so as to achieve the shearing effect, making the shearing products more beautiful, more firm and more efficient.







Ball grinding machine

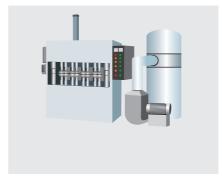
The ball grinder uses multi axis grinding wheel to polish and process artificial or natural crystal. At most, it can realize simultaneous operation of more than 20 shafts at the same time, so as to process crystal products of different shapes. The movement of more than 20 shafts can be realized by bus control, so as to realize simple and economic multi-axis

16-axis high speed winder

The high-speed winding machine is a kind of equipment that twines the linear objects to the specific workpiece, usually used for copper wire winding. In the past, it used to realize high-speed winding by the combination of frequency conversion motor and tension control system. With the increasing demand of modern industry for benefits, it can replace the original frequency conversion motor by servo to achieve efficient production.

Three servo packaging machine

Packaging machinery refers to the machinery that can complete all or part of the product and commodity packaging process. The packaging process includes filling, wrapping, sealing and other main processes, as well as the related before and after processes, such as cleaning, stacking and disassembling. In addition, packaging also includes measuring or stamping on the package. The use of mechanical packaging can improve productivity, reduce labor intensity, meet the needs of large-scale production, and meet the requirements of sanitation.







Software

Software

XINJE SERVO

Help users understand the operation of the device better



Servo communication interface

Efficient communication identification

The communication interface of Xinje Servo Tuner can realize RS232 communication with Xinje servo driver through Modbus RTU. Without checking the motor code, the motor parameters can be read automatically.



Parameter setting interface

Easy to set parameters

Xinje servo tuner has the functions of reading, modifying, saving and downloading, and is equipped with detailed parameter description without manual assistance; the parameter list directly uses color to indicate the effective time of parameters, which makes the distinction more



Curve acquisition interface

Convenient and practical curve acquisition

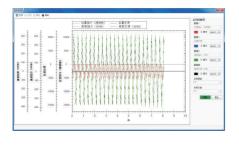
Xinje servo tuner has a detailed data acquisition interface and powerful servo data acquisition function, including basic information acquisition of speed, position, current, bus voltage, etc. Help you to have a deeper and comprehensive understanding of the servo operation and improve the control scheme.



Real time observation interface

Real time dynamic curve observation

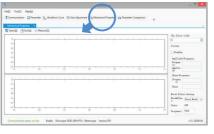
Xinje servo tuner can collect basic information such as speed, torque, position, bus voltage, etc. to help you understand the servo operation status in real time, and adjust the control scheme efficiently and timely.



Mechanical property test interface

Accurate resonance recognition

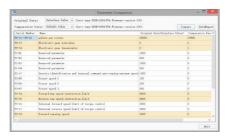
Xinje servo tuner mechanical characteristics measurement function determines the resonance frequency according to the mechanical load operation automatically. It is equipped with five notch filters to ensure the stable and reliable operation of the equipment and eliminate the load vibration.



Parameter comparison interface

Simple parameter comparison

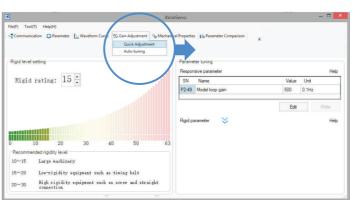
Xinje servo tuner parameter comparison function can be used for customers to compare preset values, current driver values, file values and current upper computer interface values.



Gain adjustment interface

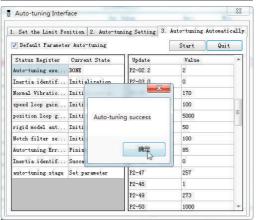
·Fast adjustment

Fast adjustment, auto-tuning mode can perform inertia identification, and users can configure appropriate mode, load type and other parameters for upper computer to set the best gain parameters, or adjust the rigidity level according to the operation status of the equipment.



· Auto-tuning interface





Monitor interface

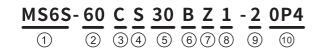
Rich and overall real-time monitoring

Xinje servo tuner has real-time status, alarm monitor and servo operation status, all of which are under your control.



Naming rule

MS6 servo motor naming rule



1) Inertia type 2		② Bas	② Base numbe		3 Encoder model			(4 Encoder specification			⑤ Rate	ed speed	10 Rat	® Rated power	
Symbol	Inertia	Symbol	Baser	numbe	Symbol Product name				Symbol	Encoder stru	cture	Symbol	Rated speed (rpm)	Symbol	Rated power(kw)	
MS6S	Low inertia motor	40	40 b	base	С	Magnetic Encoder			S	single turn 1	7-bit	15	1500	0P1	100W	
MS6G	Medium inertia motor	60	60 b	base	Т	T Optical encoder			М	Multi-turn 1	7-bit	20	2000	0P2	200W	
MS6H	High inertia motor	80	80 b	base					L	Multi-turn 2	3-bit	25	2500	0P4	400W	
		100	100	base								30	3000	0P7	750W	
		130	130	base										0P8	850W	
		180	180	base										1P0	1.0W	
0							o							1P5	1.5W	
Moto	or shaft specific	cation	(7) Powe	er-off brak	се	(8) Motor	conne	ctor type	9 Pow	er suppl	y voltage		1P8	1.8W	
Symbol	Shaft specifica	tion	:	Symbol	Power-off b	rake	Symbol	Conne	ctor type	Symbo	Powersu	pply voltage		2P0	2.0W	
Α	With key, no oil seal, with th	readed hole		Z	With brak	е	1	Amp	plug	2	22	20V		2P3	2.3W	
В	With key, with oil seal, with t	hreaded hole		Empty	Without bra	ke	2	Aviati	on plug	4	38	80V		3P0	3.0W	
C No key, no oil seal, with threaded hole									4P4	4.4W						
D No key, with oil seal, with threaded hole										5P5	5.5W					
*Note: the above is only an example. See the motor parameters for all the models. We provide CS, CM, TL combination models.												7.5W				

MS5 servo motor naming rule

		MS	5S -	- 80	ST	E – C	S 02	24	30	BZ-	2 0	P7 - S01	ı	
		(1		2	3	4 5		7	_	8 9		11 12	•	
_														
1) Type	•	② Base	numbe	er	3 Nam	ne		4 N	lotor:	structure	⑤ Enco	der structure	6 Encod	ler specification
Symbol	Inertia	Symbol	Base nun	nber	Symbol	Product	name	Sym	nbol	Oil seal	Symbol	Туре	Symbol	Specification
MS5S	Low inertia motor	40	40 bas	se	ST	Sine wave driv	ving motor	Em	pty N	No oil seal	С	Magnetic Encoder	S	Single turn 17-
MS5G	Medium inertia motor	60	60 bas	se				E	. v	Vith oil seal	Т	Optical encoder	M	Multi-turn 17-l
MS5H	High inertia motor	80	80 bas	se									L	Multi-turn 23-l
		110	110 ba	se										
		130	130 ba	se										
		180	180 ba	se										
7 Moto	or specification	n		® Moto	or structu	re 9 Pow	er-off brake)	10 Volta	ge specificat	ion ① M	otor power	12 Des	ign numbe
Symbol	Rated torque (N · m)	Rated speed	d (rpm)	Symbo	Shaft ke	Symbol	Power-off brak	ke	Symbol	Voltage specifica	tion Symb	ol Rated power (kw)	Symbol	Meaning
00630	0.637	3000)	В	With ke	y Empty	Without brake	е	2	220V	0P1	0.1	S	Standard
01330	1.3	3000)			Z	With brake		4	380V	0P2	0.2	01	Design number
02430	2.39	3000)								0P4	0.4		
											0P7	0.75		
											0P8	0.85		
											1P0	1.0		
											1P5	1.5		
											1P8	1.8		
											2P0	2.0		
											2P3			
											2P9			
											4P4	4.4		
											5P5	5.5		
*Note: the	above is only an exan	nnle Seethe	motor par	ameters f	or all the m	odels We provi	de CS CM TI	T com	hination r	models	7P5	7.5		

Servo driver naming rule



① Nam	е	② Туре)	(3
Symbol	Product name	Symbol	Product series	1
DS	Servo driver	5E	XNET bus type	
		5L	Pulse type	
		5C	EtherCAT bus type	
		5F	Full function type	
		5K	Standard type	

③ Volta	ge specification	4 Driv	er power
Symbol	Rated input voltage	Symbol	Rated outpu
2	AC220V	0P1	(
4	AC380V	0P2	(
		0P4	(

4 Driver power									
Symbol	Rated output power (KW)								
0P1	0.1								
0P2	0.2								
0P4	0.4								
0P7	0.75								
1P5	1.5								
2P3	2.3								
2P6	2.6								
3P0	3.0								
4P5	4.5								
5P5	5.5								
7P5	7.5								

© Elicodel specification									
Symbol	Encoder specification								
Т	Communication encoder								

MS6/MS5 motor														
Item	100W	200W	400W	750W	850W	1.0W	1.5W	1.8W	2.0W	2.3W	2.9W	4.4W	5.5W	7.5W
Low inertia MS6S		60	60	80		80 / 100	100		100					
High inertia MS6H	40	60	60	80	130	80	130	130		130	180	180	180	180
Low inertia MS5S	40	60	60	80		80 / 110	110	110						
Medium inertia MS5G					130		130	130		130	180	180	180	180
High inertia MS5H		60	60	80										
High inertia MS5H	e motor flanc		60 ovide voltage		nodels	Provide vol	Itana laval 3	80V models	Prov	ride voltage le	evel 220V/38	OV models		

DS5 driv	DS5 driver specification														
F		Contro	l mode			Control method									
Function	Postion control	Speed control	Torque control	Bus control	Pulse	Line driver	Analog input	External displacement sensor	ABZ differential feedback	RS232	RS485	SI input	SO input		
Pulse type												4	4		
DS5L series															
EtherCAT type												4	4		
DS5C series															
XNet bus type															
DS5E type															
Full function type												10	8		
DS5F series												•	U		
Standard type												5	4		
DS5K series												9	•		

^{*} Note: DS5E, DS5L, DS5C series 750W and below servo driver has 3 inputs and 3 outputs.

Driver/motor model list

Driver/motor model list

DS5 series driver model list

Series Power[kw]	DS5E series X-NET bus type	DS5C series EtherCAT bus type	DS5F series Full function type
0.1	DS5E-20P1-PTA	DS5C-20P1-PTA	DS5F-20P1-PTA
0.2	DS5E-20P2-PTA	DS5C-20P2-PTA	DS5F-20P2-PTA
0.4	DS5E-20P4-PTA	DS5C-20P4-PTA	DS5F-20P4-PTA
0.75	DS5E-20P7-PTA	DS5C-20P7-PTA	DS5F-20P7-PTA
1.5	DS5E-21P5-PTA	DS5C-21P5-PTA	DS5F-21P5-PTA
2.3	DS5E-22P3-PTA	DS5C-22P3-PTA	DS5F-22P3-PTA
2.6	DS5E-22P6-PTA	DS5C-22P6-PTA	DS5F-22P6-PTA
1	DS5E-41P0-PTA	DS5C-41P0-PTA	/
1.5	DS5E-41P5-PTA	DS5C-41P5-PTA	/
3	DS5E-43P0-PTA	DS5C-43P0-PTA	DS5F-43P0-PTA
5.5	DS5E-45P5-PTA	DS5C-45P5-PTA	DS5F-45P5-PTA
7.5	DS5E-47P5-PTA	DS5C-47P5-PTA	DS5F-47P5-PTA
11	DS5E-411P0-PTA	DS5C-411P0-PTA	DS5F-411P0-PTA
15	DS5E-415P0-PTA	DS5C-415P0-PTA	DS5F-415P0-PTA

Series Power[kw]	DS5K series Standard type	DS5L series Pulse type	W5E3 series Integrated driving and control type
0.1	DS5K-20P1-PTA	DS5L-20P1-PTA	/
0.2	DS5K-20P2-PTA	DS5L-20P2-PTA	/
0.4	DS5K-20P4-PTA	DS5L-20P4-PTA	/
0.75	DS5K-20P7-PTA	DS5L-20P7-PTA	W5E3-20P7-PTA
1.5	DS5K-21P5-PTA	DS5L-21P5-PTA	W5E3-21P5-PTA
2.3	DS5K-22P3-PTA	DS5L-22P3-PTA	/
2.6	DS5K-22P6-PTA	DS5L-22P6-PTA	/
1	DS5K-41P0-PTA	/	/
1.5	DS5K-41P5-PTA	/	/
3	DS5K-43P0-PTA	/	/
5.5	DS5K-45P5-PTA	/	/
7.5	DS5K-47P5-PTA	/	/

MS6S series motor model list

Power[kw]	Motor model	Flange	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
0.2	MS6S-60CS/CM30B(Z)1-20P2	60	3000	0.64	low inertia	17
0.2	MS6H-60CS/CM30B(Z)1-20P1	60	3000	0.64	high inertia	17
0.4	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		3000	2.39	low inertia	17
0.75	MS6H-80CS/CM30B(Z)1-20P7	80	3000	2.39	high inertia	17
	MS6H-80CS/CM/TL20B(Z)1-20P7		2000	3.50	high inertia	17/23
0.85	MS6H-130CS/CM/TL15B(Z)2-20P8	130	1500	5.41	high inertia	17/23
0.85	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	MS6H-80CS/CM30B(Z)1-21P0	00	3000	3.18	high inertia	17
	MS6S-100CS/CM30B(Z)2-21P0	100	3000	3.18	low inertia	17
1.5	MS6S-100CS/CM30B(Z)2-21P5	100	3000	4.78	low inertia	17
1.0	MS6H-130CS/CM/TL20B(Z)2-21P5	130	2000	7.16	high inertia	17/23
1.8	MS6H-130CS/CM/TL15B(Z)2-21P8	130	1500	11.5	high inertia	17/23
2	M56S-100CS/CM/TL30B(2)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
3.0	MS6H-180CS/CM/TL15B(Z)2-43P0		1500	19.0	high inertia	17/23
4.4	MS6H-180CS/CM/TL15B(Z)2-44P4	180	1500	28.0	high inertia	17/23
5.5	MS6H-180CS/CM/TL15B(Z)2-45P5	100	1500	35.0	high inertia	17/23
7.5	MS6H-180CS/CM/TL15B(Z)2-47P5		1500	47.8	high inertia	17/23

MS5S series motor model list

Power[kw]	Motor model	Flange	Rated speed [RPM]	Rated torque [Nm]	Inertia type	Encoder bit [bit]
0.1	MS5S-40STE-CS/CM00330B□-20P1-S01/S02	40	3000	0.32	low inertia	17
0.2	MS5S-60STE-CS/CM00630B□-20P2-S01/S02	60	3000	0.64	low inertia	17
0.2	MS5H-60STE-CS/CM0O630B□-20P2-S01/S02	60	3000	0.64	high inertia	17
	MS5S-60STE-CS/CM01330B□-20P4-S01/S02		3000	1.27	low inertia	17
0.4	MS5H-60STE-CS/CM01330B□-20P4-S01/S02	60	3000	1.27	high inertia	17
	MS-60STE-T01330B□-20P4-D01		3000	1.27	1	17
	MS5S-80STE-CS/CM02430B-20P7-S01/S02		3000	2.39	low inertia	17
	MS5S-80STE-CS/CM02430BZ-20P7-S01/S02		3000	2.39	low inertia	17
0.75	MS5H-80STE-CS/CM02430B-20P7-S01/S02	80	3000	2.39	high inertia	17
	MS5H-80STE-CS/CM02430BZ-20P7-S01/S02		3000	2.39	high inertia	17
	MS-80STE-T02430B□-20P7		3000	2.39	1	17
	MS-80STE-T03520B□-20P7		2000	3.5	1	17
	MS5G-130STE-CS/CM05415B-20P8-S01		1500	5.4	medium inertia	17
0.85	MS5G-130STE-CS/CM05415BZ-20P8-S01	130	1500	5.4	medium inertia	17
0.03	MS5G-130STE-TL05415B-20P8-S01	130	1500	5.4	medium inertia	23
	MS5G-130STE-TL05415BZ-20P8-S01		1500	5.4	medium inertia	23
	MS5S-80STE-CS/CM03230B□-21P0-S01/S02	80	3000	3.18	low inertia	17
1.0	MS5H-80STE-CS/CM03230B□-21P0-S01/S02	80	3000	3.18	high inertia	17
1.0	MS5S-110STE-CS/CM03230B□-21P0-S01		3000	3.18	low inertia	17
	MS5S-110STE-TL03230B□-21P0		3000	3.18	low inertia	23
	MS-110STE-T05030B□-21P5	110	3000	5	1	17
	MS5S-110STE-CS/CM04830B□-21P5-S01		3000	4.77	low inertia	17
	MS5S-110STE-TL04830B□-21P5-S01		3000	4.77	low inertia	23
1 -	MS-130ST-T06025B□-21P5		2500	6	1	17
1.5	MS-130ST-T10015B□-21P5		1500	10	1	17
	MS5G-130STE-CS/CM06025B-21P5-S01		2500	6	medium inertia	17
	MS5G-130STE-CS/CM07220B□-21P5-S01		2000	7.2	medium inertia	17
	MS5G-130STE-TL07220B□-21P5-S01	100	2000	7.2	medium inertia	23
	MS5G-130STE-CS/CM10015B-21P5-S01	130	1500	10	medium inertia	17
	MS5G-130STE-CS/CM11515B□-21P8-S01		1500	11.5	medium inertia	17
	MS5G-130STE-TL11515B□-21P8-S01		1500	11.5	medium inertia	23
	MS5G-130STE-CS/CM11515B□-41P8-S01		1500	11.5	medium inertia	17
	MS5G-130STE-TL11515B□-41P8-S01		1500	11.5	medium inertia	23
1.8	MS5S-110STE-TL06030B□-21P8-S01	110	3000	6	low inertia	23
	MS5S-110STE-CS/CM06030B□-21P8-S01	110	3000	6	low inertia	17
	MS5G-130STE-CS/CM14615B□-22P3-S01		1500	14.6	medium inertia	17
	MS5G-130STE-TL14615B□-22P3-S01		1500	14.6	medium inertia	23
2.3	MS5G-130STE-CS/CM14615B□-42P3-S01	130	1500	14.6	medium inertia	17
	MS5G-130STE-TL14615B□-42P3-S01	130	1500	14.6	medium inertia	23
	MS-130ST-T15015GB□-22P3		1500	15	1	17
2.4	MS-130ST-T07730B□-22P4		3000	7.7	I	17
2.6	MS-130ST-TL10025B□-22P6		2500	10	1	23
2.9	MS5G-180STE-TL19015B□-42P9-S01	180	1500	19	medium inertia	23
3.0	MS-130ST-TL10030B□-43P0	130	3000	10	1	23
4.4	MS5G-180STE-TL28015B -44P4-S01	100	1500	28		23
5.5	MS5G-180STE-TL35015B -45P5-S01	180	1500	35	medium inertia	23
7.5	MS5G-180STE-TL48015B□-47P5-S01		1500	48		23
11	MS-220STE-TL70015B-411P0-XJ	220	1500	70	1	23
15	MS-220STE-TL96015B-415P0-XJ		1500	96	1	23

^{*} Note: 1. B(Z) indicates the brake is optional, B indicates no brake model, BZ indicates brake model.

2. The product status marked with gray font is under development and will be launched one after another. Please look forward to it.

^{2.} CS/CM indicates single turn magnetic encoder CS or multi-turn magnetic encoder CM are optional.

3. 80 flange and below can choose S01 amp or S02 small aviation plug. 110 flange and above with S01 code are all aviation plug.

4. Please refer to electrical parameters and dimensions in the following page for other detailed motor characteristic parameters.

MS6 series 400W

Motor parameter

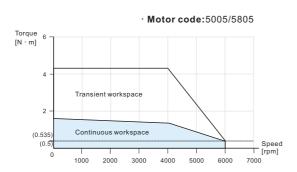
Voltage level	AC 220V					
	MS6	MS6S-60		H-60		
Motor model	CS/CM30B1	CS/CM30BZ1	CS/CM30B1	CS/CM30BZ1		
		20P	94			
Motor code	5005	5805	50C5	58C5		
Rated power [kw]		0.4				
Rated speed [rpm]		3000				
Max speed [rpm]		6500				
Rated torque [rpm]		1.27				
Max torque [rpm]	4.445					
Rated current [mA]	2600					
Rotor inertia[10^-7kg·m²]	267	273	520	590		
Inertia type	Lov	Low inertia High inertia				
Recommended rotor inertia ratio		Within 30 tin	nes			
Polar logarithm		5				
Encoder bit		17				
Encoder type		Magnetic				
Motor insulation class	ClassF(155°C)					
Protection level	IP65					
Using environment Ambient temper	ature	-15°C~+40°	°C			
Ambient humidi	у	Relative humidity < 90% (r	no condensation)			

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

Static friction torque [N · m]	≥1.3
Rated power [W]	7.2
Suction time [ms]	<50
Release time [ms]	<20
Excitation current [A]	0.3
Suction voltage [V]	<18
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

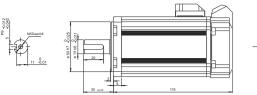
Torque feature (T – N curve)

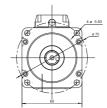


Dimension diagram

(Unit: mm)

Motor model	LA	\±1	Inertia level	
wotor moder	Normal	With brake	illertia level	
MS6S-60C□30B□1-20P4	107	139	Low inertia	
MS6H-60C□30B□1-20P4	119	151	High inertia	





MS6 series 750W

Motor parameter

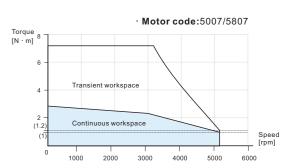
Voltage	level	AC 220V				
		MS	MS6S-80		MS6H-80	
Motor model		CS/CM30B1	CS/CM30BZ1	CS/CM30B1	CS/CM30BZ1	
		20P7				
Motor code		5007	5807	50D7	58D7	
Rated power [kw]		0.75				
Rated speed [rpm]		3000				
Max speed [rpm]		5200				
Rated torque [rpm]		2.39				
Max torque [rpm]		7.17				
Rated current [mA]		40	4000		4100	
Rotor inertia[10^-7k	g·m²]	980	1030	1670	1693	
Inertia type			Low inertia	High in	nertia	
Recommended roto	r inertia ratio		Within 3	0 times		
Polar logarithm			5	i		
Encoder bit			1	7		
Encoder type			Magr	netic		
Motor insulation cla	ss	ClassF(155°C)				
Protection level			IP6	65		
Jsing environment	Ambient tempera	ture	-15°C~	+40°C		
Joing Christinient	Ambient humidity		Relative humidity < 90	% (no condensation)		

Brake specification

It is a maintain brake, the excitation will release it.
It cannot be used for braking when the motor is rotating.

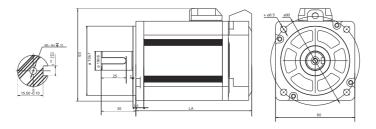
Static friction torque [N · m]	≥2.5
Rated power [W]	8
Suction time [ms]	<80
Release time [ms]	<40
Excitation current [A]	0.233
Suction voltage [V]	<16.8
Release voltage [V]	≥1
Excitation voltage [V]	DC24±10%

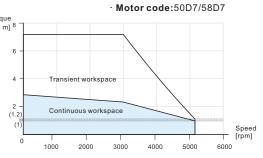
Torque feature (T – N curve)



Dimension diagram

Motor model	LA:	Inertia level	
Motor model	Normal	With brake	illertia level
MS6S-80C□30B□1-20P7	117	150	Low inertia
MS6H-80C□30B□1-20P7	124	157	High inertia





MS5 series 100W

Motor parameter

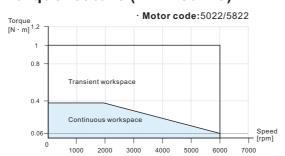
Voltag	e level	AC 220V		
Motor model		MS5S-40STE		
		CS/CM00330B CS/CM00330		
		20P1-	-S01	
Motor code		5022 5822		
Rated power [kv	v]	0	.1	
Rated speed [rp	m]	30	00	
Max speed [rpm]	60	00	
Rated torque [rpm]		0.	32	
Max torque [rpm]		0.96		
Rated current [n	nA]	950		
Rotor inertia[10^-7kg·m²]		44	53	
Inertia type		Low in	ertia	
Recommended	rotor inertia ratio	Within 30	0 times	
Polar logarithm		5		
Encoder bit		17		
Encoder type		Magnetic		
Motor insulation class		ClassF(155°C)		
Protection level		IP65		
	Ambient temperature	-15°C~-	+40°C	
Using environment	Ambient humidity	Relative humidity < 90% (no condensation		

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

3	3
Static friction torque [N · m]	≥0.3
Rated power [W]	6
Suction time [ms]	<50
Release time [ms]	<20
Excitation current [A]	0.25
Suction voltage [V]	<16.8
Release voltage [V]	>0.5
Excitation voltage [V]	DC24±10%

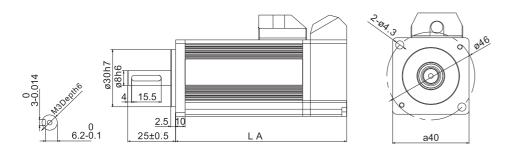
Torque feature (T – N curve)



Dimension diagram

(Unit: mm)

Motor model	LA±1		Inertia level
Motor moder	Normal	With brake	illertia level
MS5S-40STE-C□00330B□-20P1-S01	89.5	119	Low inertia



Ms5 series 200W

Motor parameter

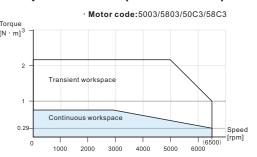
Voltag	ge level	AC 220V				
Motor model		MS5S	S-60STE	MS5H	-60STE	
	el	CS/CM00630B	CS/CM00630BZ	CS/CM00630B	CS/CM00630BZ	
		20P2-S01/S02				
Motor code		5003	5803	50C3	58C3	
Rated power	r[kw]		0.2			
Rated speed	I [rpm]		30	00		
Max speed [rpm]	6500				
Rated torque	e [rpm]	0.64				
Max torque [rpm]	1.92				
Rated curren	nt [mA]	1900				
Rotor inertia[10^-7kg·m²]		137	159	537	557	
Inertia type		Low inertia High inertia				
Recommended	rotor inertia ratio		Within 3	0 times		
Polar logarit	hm		5	5		
Encoder bit			1	7		
Encoder type	е		Magı	netic		
Motor insulation class		ClassF(155°C)				
Protection le	evel	IP65				
Using	Ambient temperature		-15°C~	+40°C		
environment	Ambient humidity	Relative humidity < 90% (no condensation)				

Brake specification

It is a maintain brake, the excitation will release it.
It cannot be used for braking when the motor is rotating.

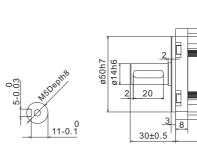
Static friction torque [N · m]	≥1.3
Rated power [W]	7.2
Suction time [ms]	<50
Release time [ms]	<20
Excitation current [A]	0.3
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

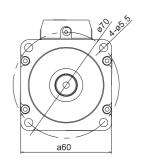
Torque feature (T – N curve)



Dimension diagram

Motor model	LA	Inertia level	
Motor model	Normal	With brake	mertia ievei
MS5S-60STE-C□00630B□-20P2-S01/S02	79	114	Low inertia
MS5H-60STE-C□00630B□-20P2-S01/S02	91	126	High inertia





MS5 series 400W

Motor parameter

Voltag	ge level	AC 220V				
		MS5S-60STE		MS5H-60STE		
Motor mode	I	CS/CM01330B	CS/CM01330BZ	CS/CM01330B	CS/CM01330BZ	
			20P4-9	S01/S02		
Motor code		5004 5804 50C4 58C4			58C4	
Rated powe	r [kw]		0.	4		
Rated speed	d [rpm]		30	00		
Max speed [rpm]		65	00		
Rated torque [rpm]		1.27				
Max torque [rpm]		4.45				
Rated curre	nt [mA]	2800				
Rotor inertia[10^-7kg·m²]		258	272	648	661	
Inertia type		Low inertia High inertia				
Recommended	I rotor inertia ratio	Within 30 times				
Polar logarit	hm	5				
Encoder bit		17				
Encoder typ	е	Magnetic				
Motor insulation class		ClassF(155°C)				
Protection level		IP65				
Using	Ambient temperature	-15°C~+40°C				
environment			elative humidity < 90)% (no condensati	on)	

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

Static friction torque [N · m]	≥1.3
Rated power [W]	7.2
Suction time [ms]	<50
Release time [ms]	<20
Excitation current [A]	0.3
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

Torque feature (T – N curve)

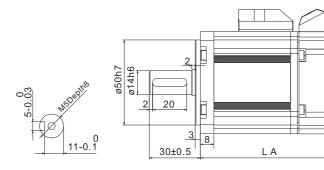
· Motor code:5004/5804/50C4/58C4

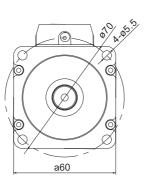


Dimension diagram

(Unit: mm)

Motor model	LA	Inertia level	
Motor moder	Normal	With brake	illei tia levei
MS5S-60STE-C□01330B□-20P4-S01/S02	99	134	Low inertia
MS5H-60STE-C□01330B□-20P4-S01/S02	111	146	High inertia





MS series 400W

Motor parameter

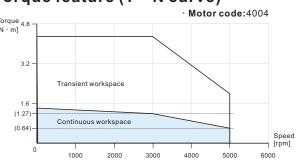
Voltage level		AC 220V		
Motor model		MS-60STE		
		T01330B□		
		20P4-D01		
Motor code		4004		
Rated power [kv	v]	0.4		
Rated speed [rp	m]	3000		
Max speed [rpm]	5000		
Rated torque [rpm]		1.27		
Max torque [rpm]		4.45		
Rated current [mA]		2200		
Rotor inertia[10^-7kg·m²]		343		
Inertia type		-		
Recommended rotor inertia ratio		Within 30 times		
Polar logarithm		5		
Encoder bit		17		
Encoder type		Optical		
Motor insulation class		ClassF(155°C)		
Protection level		IP65		
Using Ambient temperature		-15°C~+40°C		
environment	Ambient humidity	Relative humidity < 90% (no condensation)		

Brake specification

It is a maintain brake, the excitation will release it.
It cannot be used for braking when the motor is rotating.

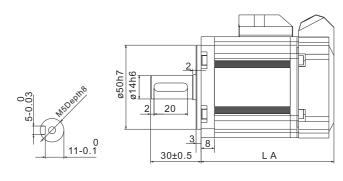
Static friction torque [N · m]	≥1.3
Rated power [W]	7.2
Suction time [ms]	<50
Release time [ms]	<20
Excitation current [A]	0.3
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

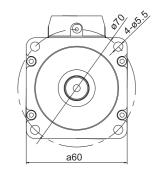
Torque feature (T – N curve)



Dimension diagram

Motor model	LA±1		Inertia level
Motor moder	Normal	With brake	illertia level
MS-60STE-T01330B-20P4-D01	145	189	/





MS5 series 750W

Motor parameter

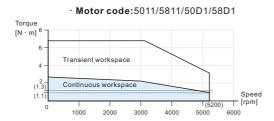
Voltag	ge level	AC 220V			
		MS5S-80STE		MS5H-80STE	
Motor mode	I	CS/CM02430B	CS/CM02430BZ	CS/CM02430B	CS/CM02430BZ
			20P7-9	S01/S02	
Motor code		5011	5811	50D1	58D1
Rated powe	r [kw]		0.	75	
Rated speed	d [rpm]		30	00	
Max speed [rpm]		52	00	
Rated torqu	e [rpm]	2.39			
Max torque [rpm]		7.17			
Rated curre	nt [mA]	4000			
Rotor inertia[10^-7kg·m²]		902	1000	1655	1659
Inertia type		Low inertia High inertia			
Recommended	rotor inertia ratio	Within 30 times			
Polar logarit	thm	5			
Encoder bit		17			
Encoder type		Magnetic			
Motor insulation class		ClassF(155°C)			
Protection level		IP65			
Using	Ambient temperature	-15°C~+40°C			
environment	Ambient humidity	Relative humidity < 90% (no condensation)			

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

Static friction torque [N · m]	≥3.2
Rated power [W]	11.5
Suction time [ms]	<60
Release time [ms]	<40
Excitation current [A]	0.47
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

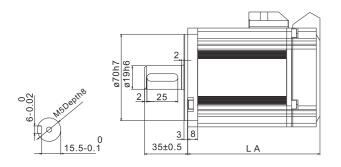
Torque feature (T – N curve)

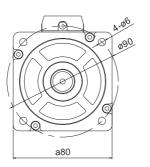


Dimension diagram

(Unit: mm)

Motor model	LA	Inertia level	
Motor model	Normal	With brake	inertia level
MS5S-80STE-C□02430B□-20P7-S01/S02	107	144	Low inertia
MS5H-80STE-C□02430B□-20P7-S01/S02	119	156	High inertia





MS series 750W

Motor parameter

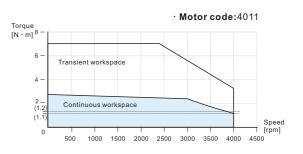
Voltag	je level	AC 220	V		
		MS-80STE			
Motor model		T02430B□	T03520B□		
		20P7			
Motor code		4011	4012		
Rated power [kw	/]	0.7	75		
Rated speed [rp	m]	3000	2000		
Max speed [rpm]]	4000	2500		
Rated torque [rpm]		2.39	3.5		
Max torque [rpm]		7.17	10.5		
Rated current [mA]		3200	3000		
Rotor inertia[10^-7kg·m²]		1023	2630		
Inertia type		1	1		
Recommended rotor inertia ratio		Within 20 t	Within 20 times		
Polar logarithm		4			
Encoder bit			17		
Encoder type		optical			
Motor insulation class		ClassF(155°C)			
Protection level		IP65			
Using	Ambient temperature	-15°C~+40°C			
environment	Ambient humidity	Relative humidity < 90% (no condensation)			

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

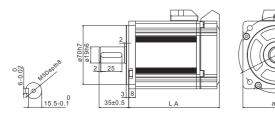
Static friction torque [N · m]	≥3.2
Rated power [W]	11.5
Suction time [ms]	<60
Release time [ms]	<40
Excitation current [A]	0.47
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

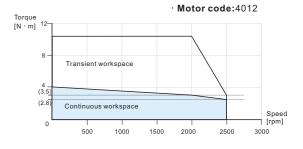
Torque feature (T – N curve)



Dimension diagram

Motor model	LA	Inertia level	
Motor model	Normal	With brake	inertia ievei
MS-80STE-T02430B□-20P7	150	199	/
MS-80STE-T03520B□-20P7	179	219	/





MS5G series 850W

Motor parameter

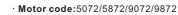
Voltage level		AC 220V					
Motor model		MS5G-130STE					
		CS/CM05415B	CS/CM05415BZ	TL05415B	TL05415BZ		
			20P8-S01				
Motor code		5072	5872	9072	9872		
Rated power [kw]			0.85				
Rated speed [rpm]			1500				
Max speed [rpm]			2000				
Rated torque [rpm]			5.41				
Max torque [rpm]		15.15					
Rated current [mA]		4200					
Rotor inertia[10^-7kg·m²]		8480	9717	8480	9717		
Inertia type		Medium inertia					
Recommended rotor inertia ratio		Within 10 times					
Polar logarithm		5					
Encoder bit		1	.7	23			
Encoder type		Мад	optical				
Motor insulation class		ClassF(155°C)					
Protection level		IP65					
Using environment	Ambient temperature	-15°C~+40°C					
comg chwirolinient	Ambient humidity	Relative humidity < 90% (no condensation)					

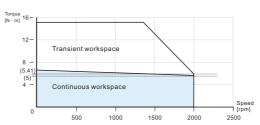
Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

Static friction torque [N \cdot m]	≥15
Rated power [W]	25
Suction time [ms]	<100
Release time [ms]	<60
Excitation current [A]	1
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

Torque feature (T – N curve)

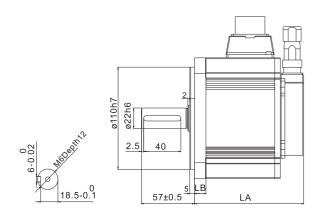


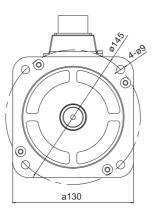


Dimension diagram

(Unit: mm)

Motor model	LA±1		I D	Inertia level	
Motor model	Normal	With brake	LD	illertia level	
MS5G-130STE-C□05415B□-20P8-S01	117.5	147.5	12.5	Medium inertia	
MS5G-130STE-TL05415B□-20P8-S01	134.5	164.5	12.5	wedium mertia	





MS5 series 1.0kW

Motor parameter

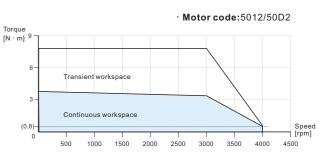
Voltage level		AC 220V		
Motor model		MS5S-80STE	MS5H-80STE	
		CS/CM03230B□		
		21P0-S01		
Motor code		5012	50D2	
Rated power [kw]		1		
Rated speed [rpm]		30	00	
Max speed [rpm]		40	00	
Rated torque [rpm]		3.1	18	
Max torque [rpm]		8		
Rated current [mA]		4000		
Rotor inertia[10^-7kg·m²]		1286	2021	
Inertia type		/	,	
Recommended rotor inertia ratio		Within 20) times	
Polar logarithm		5		
Encoder bit		17		
Encoder type		Magnetic		
Motor insulation class		ClassF(155°C)		
Protection level		IP65		
	Ambient temperature	-15°C~+40°C		
Using environment	Ambient humidity	Relative humidity < 90% (no condensation		

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

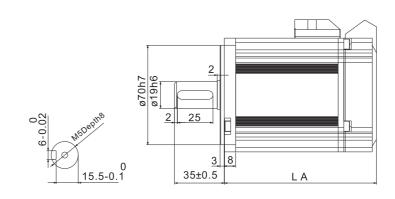
Static friction torque [N · m]	≥3.2
Rated power [W]	11.5
Suction time [ms]	<60
Release time [ms]	<40
Excitation current [A]	0.47
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

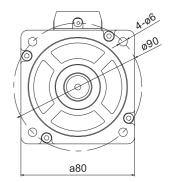
Torque feature (T – N curve)



Dimension diagram

Motor model	LA±1		Inertia level
Motor model	Normal	With brake	inertia ievei
MS5S-80STE-C□03230B□-21P0-S01	128	165	Low inertia
MS5H-80STE-C□03230B□-21P0-S01	140	177	High inertia





MS5 series 1.0kW

Motor parameter

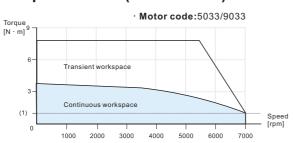
	Voltage level		AC 220V		
Motor code 5033 9033 Rated power [kw] 1 Rated speed [rpm] 3000 Max speed [rpm] 6000 Rated torque [rpm] 3.18 Max torque [rpm] 7.95 Rated current [mA] 7500 Rotor inertia[10^-7kg·m²] 2869 Inertia type Low inertia Recommended rotor inertia ratio Within 15 times	Motor model		MS5S-110STE		
Motor code 5033 9033 Rated power [kw] 1 Rated speed [rpm] 3000 Max speed [rpm] 6000 Rated torque [rpm] 3.18 Max torque [rpm] 7.95 Rated current [mA] 7500 Rotor inertia[10^*-7kg·m²] 2869 Inertia type Low inertia Recommended rotor inertia ratio Within 15 times			CS/CM03230B□	TL03230B□	
Rated power [kw] 1 Rated speed [rpm] 3000 Max speed [rpm] 6000 Rated torque [rpm] 3.18 Max torque [rpm] 7.95 Rated current [mA] 7500 Rotor inertia[10^-7kg·m²] 2869 Inertia type Low inertia Recommended rotor inertia ratio Within 15 times			21P0	-S01	
Rated speed [rpm] 3000 Max speed [rpm] 6000 Rated torque [rpm] 3.18 Max torque [rpm] 7.95 Rated current [mA] 7500 Rotor inertia[10^-7kg·m²] 2869 Inertia type Low inertia Recommended rotor inertia ratio Within 15 times	Motor code		5033	9033	
Max speed [rpm] 6000 Rated torque [rpm] 3.18 Max torque [rpm] 7.95 Rated current [mA] 7500 Rotor inertia[10^-7kg·m²] 2869 Inertia type Low inertia Recommended rotor inertia ratio Within 15 times	Rated power [kw]		3	l	
Rated torque [rpm] 3.18 Max torque [rpm] 7.95 Rated current [mA] 7500 Rotor inertia[10^-7kg·m²] 2869 Inertia type Low inertia Recommended rotor inertia ratio Within 15 times	Rated speed [rpm]		30	00	
Max torque [rpm] 7.95 Rated current [mA] 7500 Rotor inertia[10^-7kg·m²] 2869 Inertia type Low inertia Recommended rotor inertia ratio Within 15 times	Max speed [rpm]		60	00	
Rated current [mA] 7500 Rotor inertia[10^-7kg·m²] 2869 Inertia type Low inertia Recommended rotor inertia ratio Within 15 times	Rated torque [rpm]		3.18		
Rotor inertia[10^-7kg·m²] 2869 Inertia type Low inertia Recommended rotor inertia ratio Within 15 times	Max torque [rpm]		7.95		
Inertia type Low inertia Recommended rotor inertia ratio Within 15 times	Rated current [mA]		75	00	
Recommended rotor inertia ratio Within 15 times	Rotor inertia[10^-7kg·m²]		28	69	
	Inertia type		Lowi	nertia	
	Recommended	rotor inertia ratio	Within '	15 times	
Polar logarithm 5	Polar logarithm		5		
Encoder bit 17 23	Encoder bit		17	23	
Encoder type Magnetic optical	Encoder type		Magnetic	optical	
Motor insulation class ClassF(155°C)	Motor insulation class		ClassF(155°C)		
Protection level IP65	Protection level		IP65		
Ambient temperature -15°C~+40°C			-15°C~+40°C		
Using environment Ambient humidity Relative humidity < 90% (no condensation)	Using environment	Ambient humidity	Relative humidity < 90% (no condensati		

Brake specification

It is a maintain brake, the excitation will release it.
It cannot be used for braking when the motor is rotating.

Static friction torque [N · m]	≥8
Rated power [W]	14.4
Suction time [ms]	<80
Release time [ms]	<40
Excitation current [A]	0.6
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

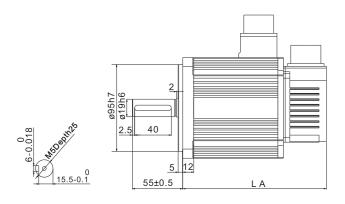
Torque feature (T – N curve)

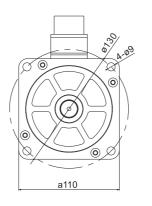


Dimension diagram

(Unit: mm)

Motor model	L	LA±1	
Motor moder	Normal	With brake	Inertia level
MS5S-110STE-C□03230B□-21P0-S01	157	205	Lowinartia
MS5S-110STE-TL03230B□-21P0-S01	137	203	Low inertia





MS series 1.2kW

Motor parameter

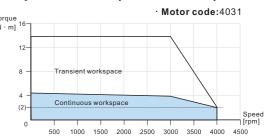
Voltage level		AC 220V		
		MS-110STE		
Motor model		T04030B□		
		21P2		
Motor code		4031		
Rated power [kw]		1.2		
Rated speed [rpm]		3000		
Max speed [rpm]		3500		
Rated torque [rpm]		4		
Max torque [rpm]		12		
Rated current [mA]		5000		
Rotor inertia[10^-7kg·m²]		5400		
Inertia type		/		
Recommended rotor inertia ratio		Within 10 times		
Polar logarithm		4		
Encoder bit		17		
Encoder type		optical		
Motor insulation class		ClassF(155°C)		
Protection level		IP65		
Using environment	Ambient temperature	-15°C~+40°C		
Osing chyllolinent	Ambient humidity	Relative humidity < 90% (no condensation)		

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

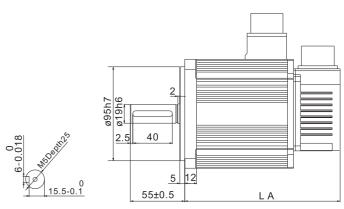
Static friction torque [N · m]	≥8
Rated power [W]	14.4
Suction time [ms]	<80
Release time [ms]	<40
Excitation current [A]	0.6
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

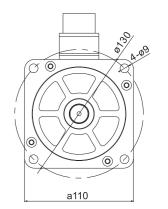
Torque feature (T – N curve)



Dimension diagram

Motor model	LA±1		
Motor moder	Normal	With brake	Inertia level
MS-110STE-T04030B-21P2	157	205	/





MS5 series 1.5kW

Motor parameter

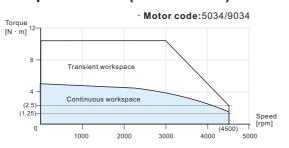
Voltag	e level	AC 220V		
		MS5S-110STE		
Motor model		CS/CM04830B□	TL04830B□	
		21P5	5-S01	
Motor code		5034	9034	
Rated power [kw	']	1	.5	
Rated speed [rp	m]	30	00	
Max speed [rpm]	1	45	00	
Rated torque [rp	m]	4.	77	
Max torque [rpm]	9.54		
Rated current [m	nA]	7500		
Rotor inertia[10/	^-7kg·m²]	3360		
Inertia type		Lowir	nertia	
Recommended r	otor inertia ratio	Within 15 times		
Polar logarithm		5		
Encoder bit		17	23	
Encoder type		Magnetic optical		
Motor insulation	class	ClassF(155°C)		
Protection level		IP65		
	Ambient temperature	-15°C~	+40°C	
Using environment	Ambient humidity	Relative humidity < 90	% (no condensation)	

Brake specification

It is a maintain brake, the excitation will release it.
It cannot be used for braking when the motor is rotating.

Static friction torque [N · m]	≥8
Rated power [W]	14.4
Suction time [ms]	<80
Release time [ms]	<40
Excitation current [A]	0.6
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

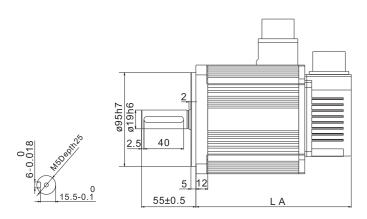
Torque feature (T – N curve)

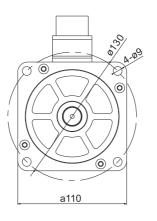


Dimension diagram

(Unit: mm)

Motor model	L.	\±1	Inertia level	
Motor model	Normal	With brake	inertia ievei	
MS5S-110STE-C□04830B□-21P5-S01	166	214	Louinortio	
MS5S-110STE-TL04830B□-21P5-S01	100	214	Low inertia	





MS5 series 1.5kW

Motor parameter

Voltag	ge level	AC 220V					
		MS5G-130STE					
Motor model		CS07220B	CS07220BZ	TL07220B	TL07220BZ	CS/CM06025B	CS/CM10015B
				21P	5-S01		
Motor code		5077	5877	9077	9877	5078	5079
Rated power [kw]			1.5			1.	5
Rated speed [rpm	1]		2000			2500	1500
Max speed [rpm]			3000 3000				
Rated torque [rpm	n]		7.16				10
Max torque [rpm]			17.9			15	25
Rated current [m/	A]		7500			7500	
Rotor inertia[10^-	7kg·m²]	11780	13130	11780	13130	9440	14400
Inertia type				Med	ium inertia		
Recommended ro	otor inertia ratio			With	in 10 times		
Polar logarithm					5		
Encoder bit		17	,	2	3		17
Encoder type		Magnetic optical Magnetic					gnetic
Motor insulation of	class	ClassF(155°C)					
Protection level		IP65					
Using environment	Ambient temperature	-15°C~+40°C					
Joing Chiviloninient	Ambient humidity		Relative humidity < 90% (no condensation)				

Brake specification

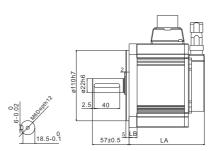
It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

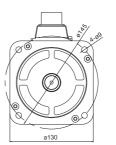
Static friction torque [N · m]	≥8
Rated power [W]	14.4
Suction time [ms]	<80
Release time [ms]	<40
Excitation current [A]	0.6
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

Dimension diagram

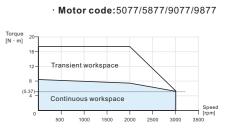
(Unit: mm)

Motor model		LA±1		Inertia level
Motor model	Normal	With brake	LB	illertia level
MS5G-130STE-C□07220B□-21P5-S01	132.5	162.5		
MS5G-130STE-TL07220B□-21P5-S01	149.5	179.5	12.5	Medium
MS5G-130STE-CS/CM06025B-21P5-S01	122	/	12.5	inertia
MS5G-130STE-CS/CM10015B-21P5-S01	145	/		

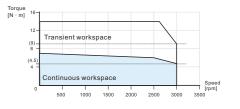


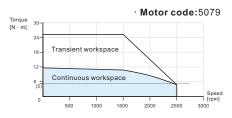


Torque feature (T – N curve)









MS5 series 1.8kW

Motor parameter

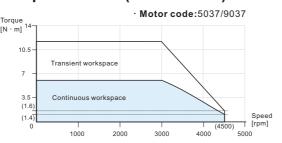
Voltage level		AC 220V		
		MS5S-110STE		
Motor model	CS/C	M06030B□	TL06030B□	
		21P8	B-S01	
Motor code		5037 9037		
Rated power [kw]		1.	.8	
Rated speed [rpm]		30	00	
Max speed [rpm]		45	00	
Rated torque [rpm]		(ŝ	
Max torque [rpm]		12		
Rated current [mA]	!	9500 7500		
Rotor inertia[10^-7kg·m²]		41	70	
Inertia type		Low in	ertia	
Recommended rotor inert	ia ratio	Within 10 times		
Polar logarithm		5		
Encoder bit		17	23	
Encoder type	М	Magnetic optical		
Motor insulation class		ClassF(155°C)		
Protection level		IP65		
Using environment	perature	-15°C~-	+40°C	
Ambient hui	nidity Relati	ve humidity < 90	% (no condensation)	

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

Static friction torque [N · m]	≥8
Rated power [W]	14.4
Suction time [ms]	<80
Release time [ms]	<40
Excitation current [A]	0.6
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

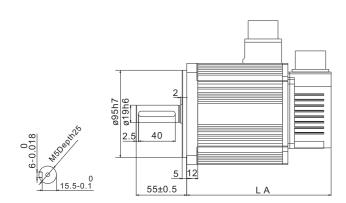
Torque feature (T – N curve)

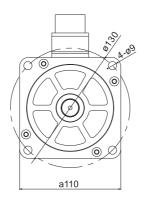


Dimension diagram

(Unit: mm)

Motor model	L/	\±1	Inertia level
wiotor model	Normal	With brake	inertia level
MS5S-110STE-C□06030B□-21P8-S01	181	229	Low inertia
MS5S-110STF-TL06030R□-21P8-S01	101	229	Low illertia





MS5 series 1.8kW

Motor parameter

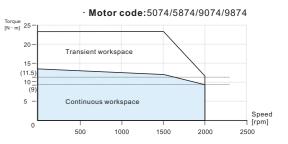
Voltac	ge level	AC 220V				
J		MS5G-130STF				
Motor model		CS/CM11515B	CS/CM11515BZ		TI 11515R7	
Wiotor moder		C3/CW11313B	21P8-S01	ILIIJIJD	TLIIJIJDZ	
Motor code		5074	5874	9074	9874	
Rated power	[kw]		1.8			
Rated speed	[rpm]		1500			
Max speed [rp	om]		2000			
Rated torque	[rpm]		11.5			
Max torque [rpm]		23				
Rated current	t [mA]	9000				
Rotor inertia[10^-7kg·m²]	17710	19060	17710	19060	
Inertia type		Medium inertia				
Recommende	ed rotor inertia ra	atio Within 10 times				
Polar logarith	m	5				
Encoder bit		17		23		
Encoder type		Magnetic optical			ptical	
Motor insulation class		ClassF(155°C)				
Protection level		IP65				
Using	Ambient temperature		-15°C~+40°	С		
environment	Ambient humidity	Relativ	re humidity < 90% (n	o condensat	ion)	

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

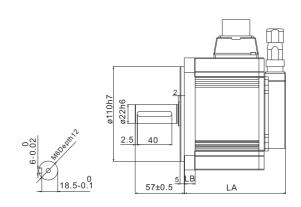
Static friction torque [N · m]	≥15
Rated power [W]	25
Suction time [ms]	<100
Release time [ms]	<60
Excitation current [A]	1
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

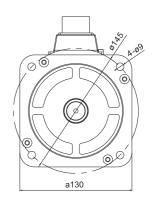
Torque feature (T – N curve)



Dimension diagram

Madaninadal	LA±1		I D	luantia laval	
Motor model	Normal	With brake	LB	Inertia level	
MS5G-130STE-C□11515B□-21P8-S01	159.5	189.5	12.5	Lowinortio	
MS5G-130STE-TL11515B□-21P8-S01	176.5	206.5	12.5	Low inertia	





MS5 series 1.8kW

Motor parameter

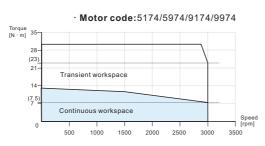
Voltage level		AC 380V					
			MS5G-130S	STE			
Motor model		CS/CM11515B	CS/CM11515BZ	TL11515B	TL11515BZ		
			41P8-S01				
Motor code		5174	5974	9174	9974		
Rated power [[kw]		1.8				
Rated speed [[rpm]		1500				
Max speed [rp	om]		3000				
Rated torque	Rated torque [rpm]		11.5				
Max torque [r	Max torque [rpm]		28.75				
Rated current	[mA]	6800					
Rotor inertia[10^-7kg·m²]	17710	18974	17710	18974		
Inertia type		Medium inertia					
Recommended r	otor inertia ratio	Within 10 times					
Polar logarith	m	5					
Encoder bit		1	.7	23			
Encoder type		Magnetic			tical		
Motor insulati	Motor insulation class		ClassF(155°C)				
Protection lev	Protection level		IP65				
Using	Ambient temperature		-15°C~+40°	С			
environment	Ambient humidity	Relative humidity < 90% (no condensation)					

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

Static friction torque [N · m]	≥15
Rated power [W]	25
Suction time [ms]	<100
Release time [ms]	<60
Excitation current [A]	1
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

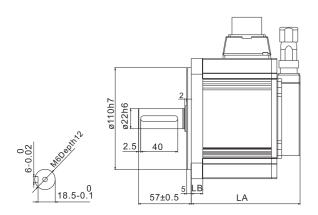
Torque feature (T – N curve)

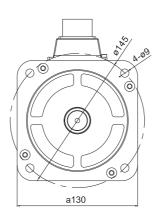


Dimension diagram

(Unit: mm)

Matarmadal	LA±1		I.D.	Inertia level	
Motor model	Normal	With brake	LB	inertia level	
MS5G-130STE-C□11515B□-41P8-S01	159.5	189.5	12.5	Medium inertia	
MS5G-130STE-TL11515B□-41P8-S01	176.5	206.5	12.5	Medium mertia	





MS5 series 2.3kW

Motor parameter

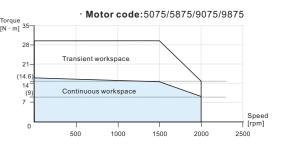
Voltag	e level	AC 220V					
			MS5G-130	STE			
Motor model		CS/CM14615B	CS/CM14615BZ	TL14615B	TL14615BZ		
			22P3-S0)1			
Motor code		5075	5875	9075	9875		
Rated power	[kw]		2.3				
Rated speed	[rpm]		1500				
Max speed [rp	om]		2000				
Rated torque	[rpm]		14.6				
Max torque [r	pm]	29.2					
Rated current	[mA]	9000					
Rotor inertia[10^-7kg·m²]	22324	23560	22324	23560		
Inertia type		Medium inertia					
Recommended r	otor inertia ratio	Within 10 times					
Polar logarith	m	5					
Encoder bit		1	.7	23			
Encoder type		Magnetic optical			tical		
Motor insulation class		ClassF(155°C)					
Protection level		IP65					
Using	Ambient temperature		-15°C~+40°	°C			
environment	Ambient humidity	Relative humidity < 90% (no condensation)					

Brake specification

It is a maintain brake, the excitation will release it.
It cannot be used for braking when the motor is rotating.

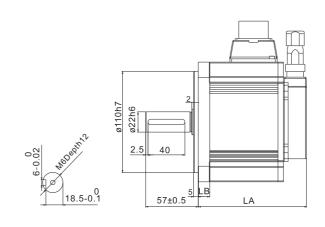
Static friction torque [N · m]	≥15
Rated power [W]	25
Suction time [ms]	<100
Release time [ms]	<60
Excitation current [A]	1
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

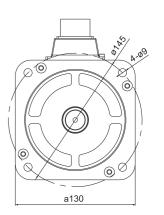
Torque feature (T – N curve)



Dimension diagram

Matarmadal	LA	±1	LD	Inertia level	
Motor model	Normal	With brake	LB	illertia level	
MS5G-130STE-C□14615B□-22P3-S01	180.5	210.5	12.5	Medium inertia	
MS5G-130STE-TL14615B□-22P3-S01	197.5	227.5	12.5	Medium mertia	





MS5 series 2.3kW

Motor parameter

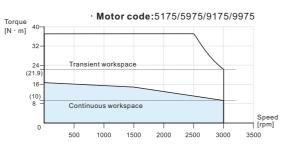
Voltag	e level	AC 380V					
		MS5G-130STE					
Motor model		CS/CM14615B	CS/CM14615BZ	TL14615B	TL14615BZ		
			42P3-S01				
Motor code		5175	5975	9175	9975		
Rated power	[kw]		2.3				
Rated speed	[rpm]		1500				
Max speed [r	pm]		3000				
Rated torque	[rpm]		14.6				
Max torque [r	pm]	36.5					
Rated curren	t [mA]	8500					
Rotor inertia[10^-7kg·m²]	22320	23560	22320	23560		
Inertia type		Medium inertia					
Recommended	rotor inertia ratio	Within 10 times					
Polar logarith	ım	5					
Encoder bit		1	7	23			
Encoder type		Magnetic optical			otical		
Motor insulation class		ClassF(155°C)					
Protection lev	Protection level		IP65				
Using	Ambient temperature	-15°C~+40°C					
environment	Ambient humidity	Relative humidity < 90% (no condensation)					

Brake specification

It is a maintain brake, the excitation will release it.
It cannot be used for braking when the motor is rotating.

_	_
Static friction torque [N \cdot m]	≥15
Rated power [W]	25
Suction time [ms]	<100
Release time [ms]	<60
Excitation current [A]	1
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

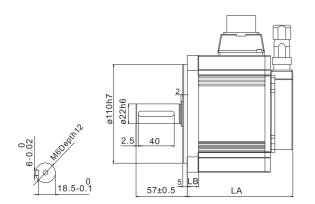
Torque feature (T – N curve)

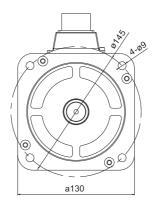


Dimension diagram

(Unit: mm)

Matanasadal	LA±1		LD	Imantia Inval
Motor model	Normal	With brake	LB	Inertia level
MS5G-130STE-C□14615B□-42P3-S01	180.5	210.5	12.5	Madiuminartia
MS5G-130STE-TL14615B□-42P3-S01	197.5	227.5	12.5	Medium inertia





MS series 2.6kW

Motor parameter

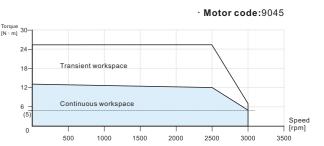
Voltage level		AC 220V		
		MS-130STE		
Motor model		TL10025B□		
		22P6		
Motor code		9045		
Rated power [kv	v]	2.6		
Rated speed [rp	m]	2500		
Max speed [rpm]	3000		
Rated torque [rp	om]	10		
Max torque [rpn	1]	25		
Rated current [mA]		10000		
Rotor inertia[10	^-7kg·m²]	19400		
Inertia type		/		
Recommended	rotor inertia ratio	Within 15 times		
Polar logarithm		4		
Encoder bit		23		
Encoder type		optical		
Motor insulation class		ClassF(155°C)		
Protection level		IP65		
Using	Ambient temperature	-15°C~+40°C		
environment	Ambient humidity	Relative humidity < 90% (no condensation)		

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

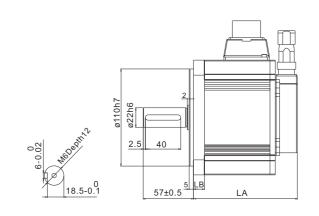
	3
Static friction torque [N \cdot m]	≥15
Rated power [W]	25
Suction time [ms]	<100
Release time [ms]	<60
Excitation current [A]	1
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

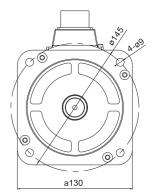
Torque feature (T – N curve)



Dimension diagram

Motor model	LA±1		I D	luantia laval
Motor model	Normal	With brake	LB	Inertia level
MS-130STE-TL10025B□-22P6	209	290	14	/





MS5 series 2.9kW

Motor parameter

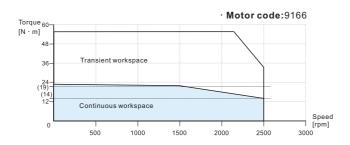
MS5G-180STE Motor model TL19015B□ 42P9-S01	
42P9-S01	
10.1	
Motor code 9166	
Rated power [kw] 2.9	
Rated speed [rpm] 1500	
Max speed [rpm] 2500	
Rated torque [rpm] 19	
Max torque [rpm] 51.3	
Rated current [mA] 9000	
Rotor inertia[10^-7kg·m²] 40443	
Inertia type Medium inertia	
Recommended rotor inertia ratio Within 10 times	
Polar logarithm 5	
Encoder bit 23	
Encoder type Optical	
Motor insulation class ClassF(155°C)	
Protection level IP65	
Using environment Ambient temperature -15°C~+40°C	
Ambient humidity Relative humidity < 90% (no condensate	on)

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

Static friction torque [N · m]	≥30
Rated power [W]	31
Suction time [ms]	<110
Release time [ms]	<80
Excitation current [A]	1.3
Suction voltage [V]	<18
Release voltage [V]	>4
Excitation voltage [V]	DC24±10%

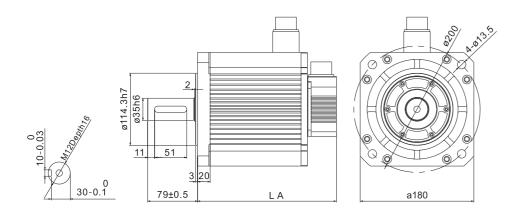
Torque feature (T – N curve)



Dimension diagram

(Unit: mm)

Motor model		LA	\±1	Inertia level
		Normal	With brake	illertia level
	MS5G-180STE-TL19015B□-42P9-S01	221	303	Medium inertia



MS series 3.0kW

Motor parameter

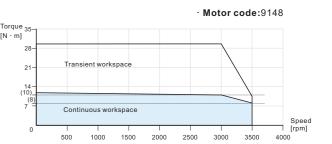
Voltag	e level	AC 380V		
		MS-130STE		
Motor model		TL10030B□		
		43P0		
Motor code		9148		
Rated power [kv	w]	3		
Rated speed [rp	om]	3000		
Max speed [rpm]	3500		
Rated torque [rp	om]	10		
Max torque [rpn	1]	30		
Rated current [mA]		6400		
Rotor inertia[10^-7kg·m²]		12723		
Inertia type		1		
Recommended rotor inertia ratio		Within 15 times		
Polar logarithm		5		
Encoder bit		23		
Encoder type		Optical		
Motor insulation class		ClassF(155°C)		
Protection level		IP65		
	Ambient temperature	-15°C~+40°C		
Using environment	Ambient humidity	Relative humidity < 90% (no condensation)		

Brake specification

It is a maintain brake, the excitation will release it.
It cannot be used for braking when the motor is rotating.

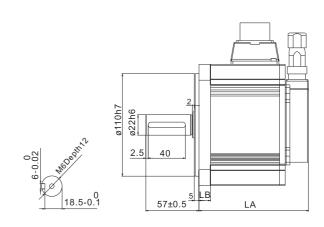
Static friction torque [N · m]	≥15
Rated power [W]	25
Suction time [ms]	<100
Release time [ms]	<60
Excitation current [A]	1
Suction voltage [V]	<16.8
Release voltage [V]	>1.5
Excitation voltage [V]	DC24±10%

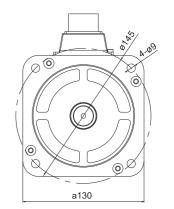
Torque feature (T – N curve)



Dimension diagram

Motor model	LA	±1	LD	
Motor model	Normal	With brake	LB	Inertia level
MS-130STE-TL10030B□-43P0	225	284	14	/





MS5 series 4.4kW

Motor parameter

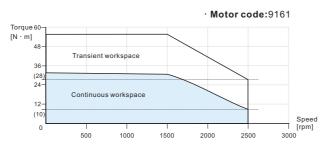
Voltage level		AC 380V		
		MS5G-180STE		
Motor model		TL28015B□		
		44P4-S01		
Motor code		9161		
Rated power [kv	w]	4.4		
Rated speed [rp	om]	1500		
Max speed [rpm]		2500		
Rated torque [rpm]		28		
Max torque [rpm]		56		
Rated current [mA]		14000		
Rotor inertia[10^-7kg·m²]		55139		
Inertia type		Medium inertia		
Recommended	rotor inertia ratio	Within 10 times		
Polar logarithm		5		
Encoder bit		23		
Encodertype		Optical		
Motor insulation class		ClassF(155°C)		
Protection level		IP65		
Using environment	Ambient temperature	-15°C~+40°C		
Osnig environment	Ambient humidity	Relative humidity < 90% (no condensation)		

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

Static friction torque [N · m]	≥30
Rated power [W]	31
Suction time [ms]	<110
Release time [ms]	<80
Excitation current [A]	1.3
Suction voltage [V]	<18
Release voltage [V]	>4
Excitation voltage [V]	DC24±10%

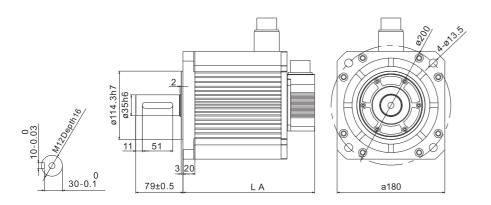
Torque feature (T – N curve)



Dimension diagram

(Unit: mm)

Motor model		LA	\±1	Inertia level
		Normal	With brake	mertia lever
	MS5G-180STE-TL28015B□-44P4-S01	247	329	Medium inertia



MS5 series 5.5kW

Motor parameter

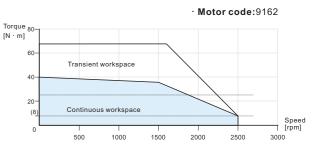
Voltage level		AC380V		
Motor model		MS5G-180STE		
		TL35015B□		
		45P5-S01		
Motor code		9162		
Rated power [kv	v]	5.5		
Rated speed [rp	m]	1500		
Max speed [rpm]	2500		
Rated torque [rp	om]	35		
Max torque [rpm]		70		
Rated current [mA]		16000		
Rotor inertia[10^-7kg·m²]		68342		
Inertia type		Medium inertia		
Recommended rotor inertia ratio		Within 10 times		
Polar logarithm		5		
Encoder bit		23		
Encoder type		Optical		
Motor insulation class		ClassF(155°C)		
Protection level		IP65		
Using environment	Ambient temperature	-15°C~+40°C		
Using environment	Ambient humidity	Relative humidity < 90% (no condensation)		

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

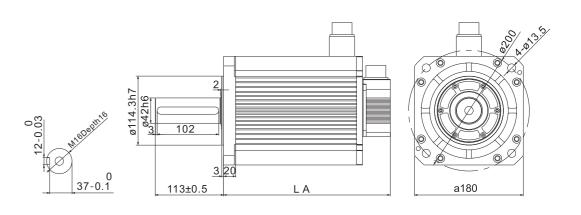
Static friction torque [N · m]	≥50
Rated power [W]	51
Suction time [ms]	<110
Release time [ms]	<80
Excitation current [A]	2.1
Suction voltage [V]	<19
Release voltage [V]	>5
Excitation voltage [V]	DC24±10%

Torque feature (T – N curve)



Dimension diagram

Motor model	L#	\±1	Inertia level
Motor moder	Normal	With brake	illertia level
MS5G-180STE-TL35015B□-45P5-S01	277	359	Medium inertia



MS5 series 7.5kW

Motor parameter

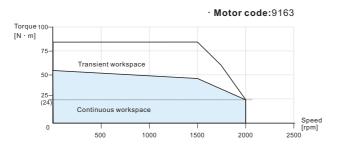
Voltage level		AC 380V		
		MS5G-180STE		
Motor model		TL48015B□		
		47P5-S01		
Motor code		9163		
Rated power [kv	v]	7.5		
Rated speed [rp	m]	1500		
Max speed [rpm]	2000		
Rated torque [rp	om]	48		
Max torque [rpm	1]	96		
Rated current [n	nA]	16100		
Rotor inertia[10	^-7kg·m²]	95424		
Inertia type		Medium inertia		
Recommended	rotor inertia ratio	Within 10 times		
Polar logarithm		5		
Encoder bit		23		
Encoder type		Optical		
Motor insulation	class	ClassF(155°C)		
Protection level		IP65		
	Ambient temperature	-15°C~+40°C		
Using environment	Ambient humidity	Relative humidity < 90% (no condensation)		

Brake specification

It is a maintain brake, the excitation will release it. It cannot be used for braking when the motor is rotating.

Static friction torque [N · m]	≥50
Rated power [W]	51
Suction time [ms]	<110
Release time [ms]	<80
Excitation current [A]	2.1
Suction voltage [V]	<19
Release voltage [V]	>5
Excitation voltage [V]	DC24±10%

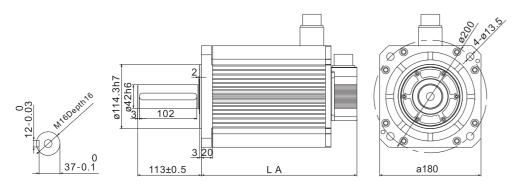
Torque feature (T – N curve)



Dimension diagram

(Unit: mm)

Motor model	L <i>F</i>	\±1	Inertia level	
wiotor moder	Normal	With brake	illertia level	
MS5G-180STE-TL48015B□-47P5-S01	318	400	Medium inertia	

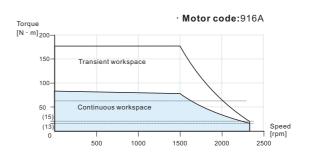


MS series 11kW

Motor parameter

Voltage level		AC380V		
		MS-220STE		
Motor model		TL70015B		
		411P0-XJ		
Motor code		916A		
Rated power [kv	v]	11		
Rated speed [rp	m]	1500		
Max speed [rpm	1	2300		
Rated torque [rp	om]	70		
Max torque [rpm	1]	175		
Rated current [r	nA]	25500		
Rotor inertia[10^-7kg·m²]		120270		
Inertia type		1		
Recommended	rotor inertia ratio	Within 10 times		
Polar logarithm		4		
Encoder bit		23		
Encoder type		Optical		
Motor insulation	class	ClassF(155°C)		
Protection level		IP65		
	Ambient temperature	-15°C~+40°C		
Using environment	Ambient humidity	Relative humidity < 90% (no condensation)		

Torque feature (T – N curve)

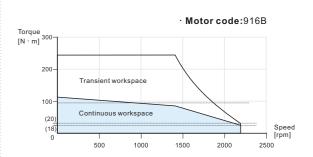


MS series 15kW

Motor parameter

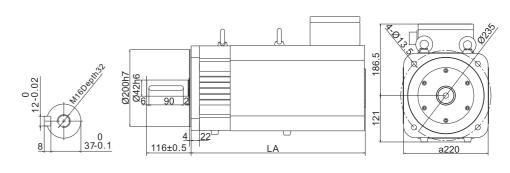
Voltage level		AC380V			
Motor model		MS-220STE			
		TL96015B			
		415P0-XJ			
Motor code		916B			
Rated power [kv	v]	15			
Rated speed [rp	m]	1500			
Max speed [rpm]	2200			
Rated torque [rp	om]	96			
Max torque [rpm	1]	240			
Rated current [r	nA]	35000			
Rotor inertia[10	^-7kg·m²]	159500			
Inertia type		1			
Recommended	rotor inertia ratio	Within 10 times			
Polar logarithm		4			
Encoder bit		23			
Encoder type		Optical			
Motor insulation	class	ClassF(155°C)			
Protection level		IP65			
	Ambient temperature	-15°C~+40°C			
Using environment	Ambient humidity	Relative humidity < 90% (no condensation)			

Torque feature (T – N curve)



Dimension diagram

Motor model	LA±1	Inertia level
wiotor moder	Normal	illertia level
MS-220STE-TL70015B-411P0-XJ	454	1
MS-220STE-TL96015B-415P0-XJ	507	/



Driver specification

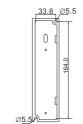
	ecifica	Model	Pulse type	EtherCAT type	Xnet bus type	Full function type	Standard type	Integrated driving and control typ	
Ope			DS5L series	DS5C series	DS5E series	DS5Fseries	DS5K series	W5E3	
		er range	0.1KW~2.6KW	0.1KW~15KW	0.1KW~15KW	0.1~15KW	0.1~3.0KW	0.75-~1.5kW	
		power supply	Single phase/three phase AC200~240V, 50Hz/60Hz; three phase 340~420V, 50Hz/60Hz Single phase/three phase AC200~240V, 50Hz/60Hz						
	Enco	der feedback	17 bits/23 bits communication encoder						
	Conti	rol method		I hree pha	ase full wave rectifier IP	'M PWM control, sine v	wave current driving	g mode	
١,	Jsing 6	Ambient temperature		Operation	n: -10°C~40°C(no conde	nsation)/storage: -20°	C~60°C(no conden	sation)	
	nviro	Ambient humidity			Operation/storage:	below 90% RH (no co	ndensation)		
	ment	Vibration and impact resistance							
		Electronic CAM			Without	With			
:		Protection		age, overheat, overcurrent, ove rotection, lack of phase protect		t error, excessive position dev	riation, output short circui	t, encoder error, regenerative error, overrun	
	П	Dynamic brake	Without						
ŝ	Function	Communication function	RS232: standard Modbus Rtu protocol	RS232: standard Modbus Rtu protocol EtherCAT: support EtherCAT bus communication (max 32-axis)	RS232: standard Modbus Rtu protocol RS485: standard Modbus Rtu protocol Support Xnet bus communication (max 20-axis)	RS232: standard Modbus Rtu protocol RS485: standard Modbus Rtu protocol	R\$232: standard Modbus Rtu protocol	RS232: standard ModbusRtu protocol RS485: standard ModbusRtu protocol	
		Brake resistor			Built in brake	resistor, external brake re	sistor		
		Display and operate			5 digits LED inc	dicator, power indicator, 4 b	outtons		
	Pog	Output status		Without		ABZ differential fe	eedback output	Without	
	Position output	Frequency division function		Without		with	h	Without	
	outpu	Collector Z phase output				with			
5		nalog input		Without		2 channels input	Without	Without	
2			750W and below: 3 cl		above: 4 channels SI input	10 channels SI input	5 channels SI input	750W and below: 3 channels SI input.	
0			750W and below: 3 channels SI input. 750W and above: 4 channels SI input. Servo enable, alarm clearance, forward run prohibition, reverse run prohibition, torque limit selection, internal speed selection, gear ratio switching, mode switching, pulse input prohibition, zero speed locking, position offset clearance, internal position step changing signal, internal control mode direction switching						
	750W and below: 3 channels SO output. 750W and above: 4 channels SO output		8 channels SO output	4 channels SO output	750W and below: 3 channls SO output. 750W and above: 4 channels SO output				
	Digital output		Positioning compl	etion, servo ready, alarm ou	tput, torque limit output, san	ne speed detection, rotatio	n detection, speed rea	ched, brake release output, warning outpu	
,		ax input pulse quency	Open collector: 200kpps			Line reception: 2Mpps		Open collector: 200kpps	
<u>.</u>	Pulse	command mode	Can rece CW	eive 18~24V pulse+direction, Al //CCW signal (5C not support C	B phase pulse, cW/CCW)	3.3V~5V/18~24V p AB phase pulse, C		Can receive 18~24V pulse+direction AB phase pulse, CW/CCW signal	
Donition control mode	Co	ntrol mode	External pulse/ internal position	External pulse/ internal position/ EtherCAT motion bus	External pulse/ internal position/ XNet motion bus	External pulse/internal position			
, F	Feedforv	ward compensation	0~100% (setting resolution is 1%)						
F	Position	oning completion width 0~65535 command unit (setting resolution is 1 command unit)							
	electro	onic gear ratio			1/	10000≤B/A≤10000			
(Contro	ol mode		Analog sp	peed control (only DS5F sup	ports), internal 3-segment	speed, external speed	mode	
9	Commar	nd smoothing mode				ass filter, smoothing filter			
		Voltage range		Without		-10~+10V (resolution 12-bit)		Without	
	Analog input	Input impedance		Without		72ΚΩ	Without		
1	To	orque limit		Internal parameter		External load rated changing	ed changing		
	10	rique milit				0~100% : below ±0.01% (rated speed)			
30 1	Sneed	d changing rate	External load rated changing 0~100%: below ±0.01% (rated speed)						
,	Speed	2 Changing rate	Rated voltage ±10%: 0.01% (rated speed) Ambient temperature 20±25°C: below ±0.01% (rated speed)						
1	0	antrol meda							
1		ontrol mode Command				ol (only DS5F supports), internal torque			
2		oothing mode			Low pa	ass filter, smoothing filter		NAPPA A	
	Analog input			Without		-10~+10V (resolution 12-bit) Without			
control mode		Input impedance		Without		72KΩ Without			
D J		Speed limit		Internal paramete	er	Internal parameter/ external analog value		Internal parameter	
itrol de		ontrol axis	Without	32 axes EtherCAT protocol	20 axes XNET protocol		With		

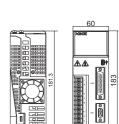
Servo driver dimension

(Unit: mm)

DS5E-20P1/20P2/20P4-PTA DS5F-20P1/20P2/20P4-PTA DS5L-20P1/20P2/20P4-PTA DS5C-20P1/20P2/20P4-PTA

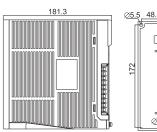
DS5K-20P1/20P2/20P4-PTA





DS5E-20P7-PTA

DS5L-20P7-PTA



DS5C-20P7-PTA DS5K-20P7-PTA

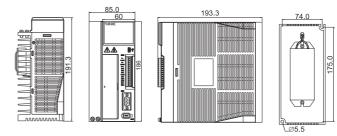
DS5F-20P7-PTA

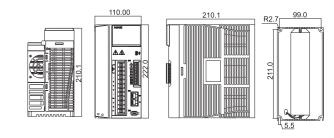
DS5C-21P5/22P3/22P6-PTA DS5C-41P5-PTA W5E3-21P5-PTA

DS5E-21P5/22P3/22P6-PTA DS5F-21P5/22P3/22P6-PTA DS5L-21P5/22P3/22P6-PTA DS5K-21P5/22P3/22P6-PTA

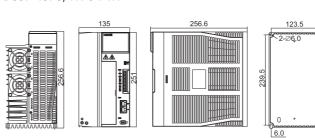
DS5C-45P5/47P5-PTA

DS5E-43P0-PTA DS5C-43P0-PTA DS5F-43P0-PTA DS5K-43P0-PTA

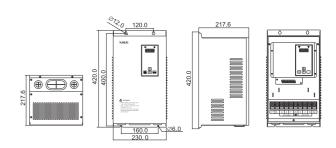




DS5E-45P5/47P5-PTA DS5F-45P5/47P5-PTA

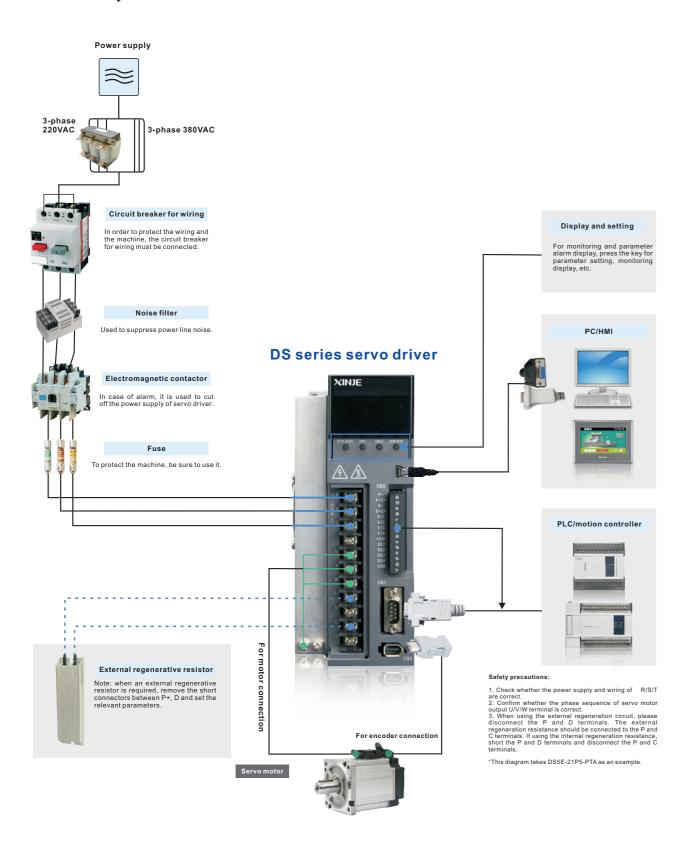


DS5E-411P0/415P0-PTA

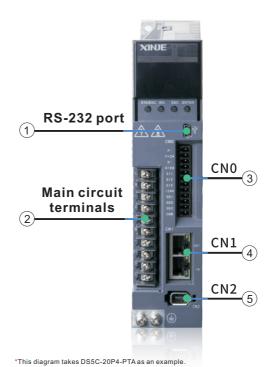


Driver peripheral connections

DS5E, DS5L series



DS5C series



1 RS-232 port

Pin number	Name	Explanation
1	TXD	RS232 send
2	RXD	RS232 receive
3	GND	RS232 ground

2 Main circuit terminals

Terminal	Function	Explanation
L/N R/S/T	Main circuit power supply input terminal	single/three phase AC220~240V, 50/60Hz Three phase AC340~420V, 50/60Hz
•	Empty terminal	/
U、V、W	Motor connection terminal	Connect to the motor Note: the ground wire is on the radiator, please check before power on
	Use internal regenerative resistor	Short connect P+ and D terminals, disconnect P+ and C terminals
P+、D、C	Use external regenerative resistor	Connect the regeneration resistance to the P + and C terminals, and remove the P + and D short wires P0-25=power, P0-26=resistance

③ CN0 port

• 750W and below power

Name	Explanation	Name	Explanation
P-	Pulse input PUL-	SI3	Input terminal 3
P+24V	Open collector input	+24V	Input +24V
D-	Direction input DIR-	SO1	Output terminal 1
D+24V	Open collector input	SO2	Output terminal 2
SI1	Input terminal 1	SO3	Output terminal 3
SI2	Input terminal 2	COM	Output terminal ground

• 1.5KW and above power

Name	Explanation	Name	Explanation
P-	Pulse input PUL-	S14	Input terminal 4
P+24V	Open collector input	+24V	Input +24V
D-	Direction input DIR-	SO1	Output terminal 1
D+24V	Open collector input	SO2	Output terminal 2
SI1	Input terminal 1	SO3	Output terminal 3
SI2	Input terminal 2	SO4	Output terminal 4
SI3	Input terminal 3	COM	Output terminal ground

4 CN1 port

5 CN2 port

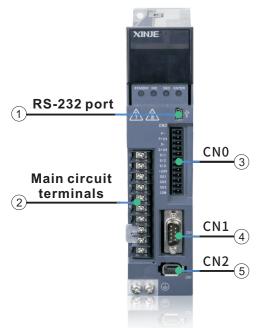
Name 5V

GND / / 485+ 485-

Pin number	Name	Explanation	Pin number	Name	Explanation	Pin number
1	TX A+	TRANSMIT A+	9	TX B+	TRANSMIT B+	1
2	TX A-	TRANSMIT A-	10	TX B-	TRANSMIT B-	2
3	RX A+	RECEIVE A+	11	RX B+	RECEIVE B+	3
4	/	/	12	/	/	4
5	/	/	13	/	/	5
6	RX A-	RECEIVE A-	14	RX B-	RECEIVE B-	6
7	/	/	15	/	/	
8	/	/	16	/	/	

Driver port pin definition Driver port pin definition

DS5E series



* This diagram takes DS5E-20P4-PTA as an example.

① RS-232 port

Pin number	Name	Explanation
1	TXD	RS232 send
2	RXD	RS232 receive
3	GND	RS232 ground

2 Main circuit terminals

Terminal	Function	Explanation
L/ N Main circuit power	single/three phase AC220~240V, 50/60Hz	
R/S/T	supply input terminal	Three phase AC340~420V, 50/60Hz
•	Empty terminal	1
U、V、W	Motor connection terminal	Connect to the motor Note: the ground wire is on the radiator, please check before power on
	Use internal regenerative resistor	Short connect P+ and D terminals, disconnect P+ and C terminals
P+、D、C	Use external regenerative resistor	Connect the regeneration resistance to the P + and C terminals, and remove the P + and D short wires P0-25=power, P0-26=resistance

3 CN0 port

• 750W and below power

Name	Explanation	Name	Explanation
P-	Pulse input PUL-	SI3	Input terminal 3
P+24V	Open collector input	+24V	Input +24V
D-	Direction input DIR-	SO1	Output terminal 1
D+24V	Open collector input	SO2	Output terminal 2
SI1	Input terminal 1	SO3	Output terminal 3
SI2	Input terminal 2	COM	Output terminal ground

• 1.5KW and above power

Name	Name Explanation		Explanation
P-	Pulse input PUL-	SI4	Input terminal 4
P+24V	Open collector input	+24V	Input +24V
D-	Direction input DIR-	SO1	Output terminal 1
D+24V	Open collector input	SO2	Output terminal 2
SI1	Input terminal 1	SO3	Output terminal 3
SI2	Input terminal 2	SO4	Output terminal 4
SI3	Input terminal 3	COM	Output terminal ground

4 CN1 port

⑤ CN2 port

Name	Explanation		Pin number	Name
GND	GND-485		1	5V
A1	RS485+		2	GND
B1	RS485 -		3	/
A2	RS485+		4	/
B2	RS485 -		5	485+
GND	GND-485		6	485-
NC	Reserved			
	GND A1 B1 A2 B2 GND	GND GND-485 A1 RS485 + B1 RS485 - A2 RS485 + B2 RS485 - GND GND-485	GND GND-485 A1 RS485 + B1 RS485 - A2 RS485 + B2 RS485 - GND GND-485	Name Explanation number GND GND-485 1 A1 RS485 + 2 B1 RS485 - 3 A2 RS485 + 4 B2 RS485 - 5 GND GND-485 6

DS5L series

1 RS-232 port

Main circuit terminals

* This diagram takes DS5L-20P4-PTA as an example.

① RS-232 port

Pin number	Name	Explanation
1	TXD	RS232 send
2	RXD	RS232 receive
3	GND	RS232 ground

2 Main circuit terminals

Terminal	Function	Explanation
Supply input terminal	single/three phase AC220~240V, 50/60Hz	
	Three phase AC340~420V, 50/60Hz	
•	Empty terminal	/
U.V.W	Motor connection terminal	Connect to the motor Note: the ground wire is on the radiator, please check before power on
	Use internal regenerative resistor	Short connect P+ and D terminals, disconnect P+ and C terminals
P+、D、C	Use external regenerative resistor	Connect the regeneration resistance to the P+ and C terminals, and remove the P+ and D short wires P0-25=power, P0-26=resistance

③ CN0 port

CNO 3

• 750W and below power

Name	Explanation	Name	Explanation
P-	Pulse input PUL-	SI3	Input terminal 3
P+24V	Open collector input	+24V	Input +24V
D-	Direction input DIR-	SO1	Output terminal 1
D+24V	Open collector input	SO2	Output terminal 2
SI1	Input terminal 1	SO3	Output terminal 3
SI2	Input terminal 2	COM	Output terminal ground

• 1.5KW and above power

Name	Explanation	Name	Explanation
P-	Pulse input PUL-	SI4	Input terminal 4
P+24V	Open collector input	+24V	Input +24V
D-	Direction input DIR-	SO1	Output terminal 1
D+24V	Open collector input	SO2	Output terminal 2
SI1	Input terminal 1	S03	Output terminal 3
SI2	Input terminal 2	SO4	Output terminal 4
SI3	Input terminal 3	COM	Output terminal ground

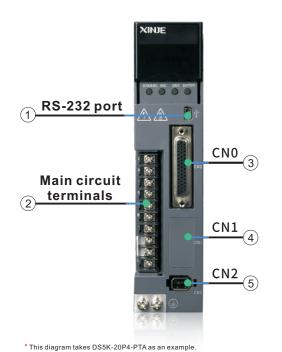
4 CN1 port

⑤ CN2 port

in umber	Name	Explanation	Pin number	Name
1			1	5V
2			2	GND
3			3	/
4	NC	NC Reserved	4	/
5	NC		5	485+
6			6	485-
7				
8				
9				

Driver port pin definition

DS5K series



① RS-232 port

Pin number	Name	Explanation
1	TXD	RS232 send
2	RXD	RS232 receive
3	GND	RS232 ground

2 Main circuit terminals

Terminal	Function	Explanation
L/N R/S/T	Main circuit power supply input terminal	single/three phase AC220~240V, 50/60Hz Three phase AC340~420V, 50/60Hz
•	Empty terminal	/
U、V、W	Motor connection terminal	Connect to the motor Note: the ground wire is on the radiator, please check before power on
	Use internal regenerative resistor	Short connect P+ and D terminals, disconnect P+ and C terminals
P+、D、C	Use external regenerative resistor	Connect the regeneration resistance to the P+ and C terminals, and remove the P+ and D short wires P0-25=power, P0-26=resistance

③ CN0 port

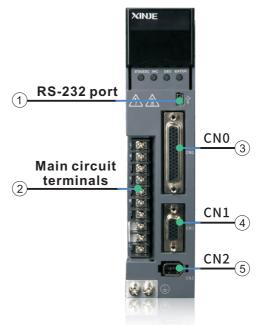
Pin number	Name	Explanation	Name	Pin number	Explanation
1	P-	Pulse –	23	SI4	
2	P+5	Pulse +5V	24	SI5	
3	P+24	Pulse +24V	25	SI6	Input terminal
4	D-	Direction -	26	SI7	input terminai
5	D+5	Direction +5	27	SI8	
6	D+24	Direction +24V	28	SI9	
7	SO1		29	SI10	High speed input terminal
8	SO2	Output terminal	30	+24V	Input common terminal
9	SO3	Output terminar	31	T-REF+	External torque analog differential input +
10	SO4		32	T-REF-	External torque analog differential input –
11			33	V-REF+	External speed analog differential input +
12	NC.	Empty terminal	34	V-REF-	External speed analog differential input –
13	NC	Empty terminal	35	OA+	Encoder frequency division output OA+
14			36	OA-	Encoder frequency division output OA-
15	COM	Output common terminal	37	OB+	Encoder frequency division output OB+
16	485+	Communication +	38	OB-	Encoder frequency division output OB-
17	485-	Communication -	39	OZ+	Encoder frequency division output OC+
18	GND	Communication ground	40	OZ-	Encoder frequency division output OC-
19	NC	Empty terminal	41	HPUL+	Line driver high speed pulse +
20	SI1		42	HPUL-	Line driver high speed pulse –
21	SI2	Output terminal	43	HDIR+	Line driver high speed direction +
22	SI3		44	HDIR-	Line driver high speed direction –

4 CN1 port (no function)

⑤ CN2 port

Pin number	Name	
1	5V	
2	GND	
3	/	
4	/	
5	485+	
6	485-	

DS5F series



*This diagram takes DS5F-20P4-PTA as an example.

4 CN1 port (Hardware version v3.1.40 and later)

Pin number	Name	Explanation
1	Z-	Full closed loop input Z-
2	B-	Full closed loop input B-
3	B+	Full closed loop input B+
4	A+	Full closed loop input A+
5	A-	Full closed loop input A-
6	GND	Grating power supply GND
7	GND	Grating power supply GND
8	5V	Grating power supply 5V
9	Z+	Full closed loop input Z+
10		
11		
12	/	Empty terminal
13	/	Empty terminal
14		
15		

⑤ CN2 port

Pin number	Name
1	5V
2	GND
3	/
4	/
5	485+
6	485-

① RS-232 port

Pin number	Name	Explanation
1	TXD	RS232 send
2	RXD	RS232 receive
3	GND	RS232 ground

2 Main circuit terminals

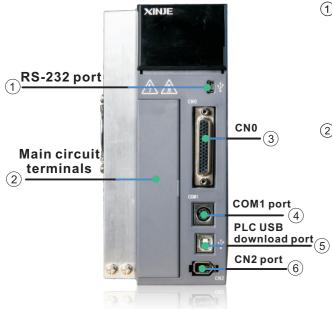
Terminal	Function	Explanation
L/N	Main circuit power	single/three phase AC220~240V, 50/60Hz
R/S/T	supply input terminal	Three phase AC340~420V, 50/60Hz
•	Empty terminal	/
U.V.W	Motor connection terminal	Connect to the motor Note: the ground wire is on the radiator, please check before power on
	Use internal regenerative resistor	Short connect P+ and D terminals, disconnect P+ and C terminals
P+\D\C	Use external regenerative resistor	Connect the regeneration resistance to the P + and C terminals, and remove the P + and D short wires P0-25=power, P0-26=resistance

③ CN0 port

Pin number	Name	Explanation	Name	Pin number	Explanation
1	P-	Pulse –	23	SI4	
2	P+5	Pulse +5V	24	SI5	
3	P+24	Pulse +24V	25	SI6	Input terminal
4	D-	Direction -	26	SI7	input terminai
5	D+5	Direction +5	27	SI8	
6	D+24	Direction +24V	28	S19	
7	SO1		29	SI10	High speed input terminal
8	SO2		30	+24V	Input common terminal
9	SO3		31	T-REF+	External torque analog differential input +
10	SO4	Output terminal	32	T-REF-	External torque analog differential input –
11	SO5	Output terrimiai	33	V-REF+	External speed analog differential input +
12	S06		34	V-REF-	External speed analog differential input –
13	S07		35	OA+	Encoder frequency division output OA+
14	SO8		36	OA-	Encoder frequency division output OA-
15	COM	Output common terminal	37	OB+	Encoder frequency division output OB+
16	485+	Communication +	38	OB-	Encoder frequency division output OB-
17	485-	Communication -	39	OZ+	Encoder frequency division output OC+
18	GND	Communication ground	40	OZ-	Encoder frequency division output OC-
19	GND	Analog input ground	41	HPUL+	Line driver high speed pulse +
20	SI1		42	HPUL-	Line driver high speed pulse –
21	SI2	Output terminal	43	HDIR+	Line driver high speed direction +
22	SI3		44	HDIR-	Line driver high speed direction –

Parts

W5E3 series



1 RS-232 port

Pin number	Name	Explanation
1	TXD	RS232 send
2	RXD	RS232 receive
3	GND	RS232 ground

2 Main circuit terminals

Terminal	Function	Explanation
L/ N Main circuit power		single/three phase AC220~240V, 50/60Hz
R/S/T	supply input terminal	Three phase AC340~420V, 50/60Hz
•	Empty terminal	/
U、V、W	Motor connection terminal	Connect to the motor Note: the ground wire is on the radiator, please check before power on
	Use internal regenerative resistor	Short connect P+ and D terminals, disconnect P+ and C terminals
P+、D、C	Use external regenerative resistor	Connect the regeneration resistance to the P+ and C terminals, and remove the P+ and D short wires P0-25=power, P0-26=resistance

*This diagram takes W5E3-21P5-PTA as an example.

4 COM1 port

Pin number	Name	Explanation
1	/	Empty
3	/	Empty
5	TXD	RS232 send
7	/	Empty
2	/	Empty
4	RXD	RS232 receive
6	/	Empty
8	GND	RS232 ground

5 PLC USB donwload port

6 CN2 port

Number	Definition
1	5V
2	GND
3	/
4	/
5	Α
6	В

3 CN0 port

Pin number	Name	Explanation	Name	Pin number	Explanation
1	SI1	Servo input terminal 1	23	X5	PLC input terminal X5
2	SI3	Servo input terminal 3	24	X7	PLC input terminal X7
3	+24V	Servo input +24V	25	/	Empty
4	S01	Servo output terminal 1	26	Y4	PLC output terminal Y4
5	COM	SO1 common terminal COM	27	Y5	PLC output terminal Y5
6	S03	Servo output terminal 3	28	Y6	PLC output terminal Y6
7	COM	SO3 common terminal COM	29	Y7	PLC output terminal Y7
8	Х6	PLC input terminal X6	30	СОМ	Common terminal COM of
9	+24V	PLC input common power supply	30	COM	PLC output Y4/Y5/Y6/Y7
10	Y1	PLC output terminal Y1	31	/	Empty
11	Y3	PLC output terminal Y3	32	/	Empty
12	Α	PLC485+	33	/	Empty
13	В	PLC485-	34	X0	PLC high speed count X0
14	GND	PLC485GND	35	X1	PLC high speed count X1
15	СОМ	PLC output terminal Y1	36	X2	PLC input terminal X2
15	COM	COM terminal with Y3	37	Х3	PLC input terminal X3
16	SI2	Servo input terminal 2	38	X4	PLC input terminal X4
17	SI4	Servo input terminal 4	39	A+	Frequency division output A+
18	/	Empty	40	A-	Frequency division output A-
19	S02	Servo output terminal 2	41	B+	Frequency division output B+
20	COM	SO2 common terminal COM	42	B-	Frequency division output B-
21	S04	Servo output terminal 4	43	Z+	Frequency division output Z+
22	COM	SO4 common terminal COM	44	Z-	Frequency division output Z-

Product accessories

Quick connector

- · Provide convenient wiring terminals
- · For 100W~15KW driver
- \cdot Suitable for DS5F, DS5K, W5E3 series 44-bit terminals: DTHDB44M-BK10









DB9 cable

- · The cable length is 1.5m
- · Connect PC to perform servo upper computer control



JC-CA bus cable

- · Special communication cable for EtherCAT motion bus
- · Use CAT5e industrial level 4-core cable



Absolute value battery box

- · Battery box model: CP-B-BATT
- The battery cannot be charged



X-NET parts

- · Bus module: JA-NE-L
- · Suitable shielded twisted-pair cable: JC-EA-length



Power cable

- · Standard cable length: 2/3/5/8/10/12/16/20 meter
- · The length can be customized
- · The cable connector is optional (not include cable)



Encoder cable

- · Standard cable length: 2/3/5/8/10/12/16/20 meter
- · The length can be customized
- · The cable connector is optional (not include cable)





Regenerative resistor

- · Release the regeneration voltage of bus capacitance
- · Please refer to the regeneration resistance selection table in the user manual for specific model



Differential module

- · Conversion between collector signal and differential signal
- · Differential to differential isolation card: JS-ID-AB
- · Differential to collector card: JS-IDC-AB(AB phase), JS-IDC-ABZ(ABZ phase)







Model configuration list

Motor model	Adapted driver	Encoder cable	Power cable	Brake cable	Cable parts	
MS5S-40ST□-CS00330B-20P1-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	I	JAM-P9-P4	
MS5S-40ST□-CM00330B-20P1-S01	DS5E/L/C/F/K-20P1-PTA	CP(T)-SP-BM-length	CM(T)-P07-M-length	1	JAM-P9-P4	
MS5S-40ST□-CS00330BZ-20P1-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5S-40ST□-CM00330BZ-20P1-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5S-60ST□-CS00630B-20P2-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	I	JAM-P9-P4	
MS5S-60ST□-CM00630B-20P2-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	1	JAM-P9-P4	
MS5S-60ST - CS00630BZ-20P2-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5S-60ST□-CM00630BZ-20P2-S01	DS5E/L/C/F/K-20P2-PTA	CP(T)-SP-BM-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5H-60ST - CS0O630B-20P2-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	1	JAM-P9-P4	
MS5H-60ST□-CM0O630B-20P2-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	1	JAM-P9-P4	
MS5H-60ST - CS00630BZ-20P2-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5H-60ST - CM00630BZ-20P2-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5S-60ST□-CS01330B-20P4-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	1	JAM-P9-P4	
MS5S-60ST□-CM01330B-20P4-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	1	JAM-P9-P4	
MS5S-60ST - CS01330BZ-20P4-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5S-60ST - CM01330BZ-20P4-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5H-60ST -CS01330B-20P4-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	/ / / / / / / / / / / / / / / / / / /	JAM-P9-P4	
MS5H-60ST - CM01330B-20P4-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	1	JAM-P9-P4	
MS5H-60ST -CM01330BZ-20P4-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5H-60ST -CS01330BZ-20P4-S01		. ,		CB(T)-P03-length	JAM-P9-P4-P2 JAM-P9-P4-P2	
MS-60ST CM01330BZ-20P4-S01 MS-60ST T01330B 20P4-D01	DS5E/L/C/F/K-20P4-PTA	CP(T)-SP-BM-length	CM(T)-P07-M-length	CD(1)-PUS-length		
MS-60ST□-101330B□-20P4-D01 MS6S-60CS30B1-20P4 ^{被调期待}		CP(T)-SP-B-length	CM(T)-P07-length	1	JAM-P9-P4 JAM-P9-P4	
		CP(T)-SP-M-length	CM(T)-P07-M-length	I .		
MS6S-60CM30B1-20P4 ^酸 请期待		CP(T)-SP-BM-length	CM(T)-P07-M-length	/	JAM-P9-P4	
MS6S-60CS30BZ1-20P4 ^{敬请期待}		CP(T)-SP-M-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS6S-60CM30BZ1-20P4 ^{被请期待}		CP(T)-SP-BM-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS6H-60CS30B1-20P4 NEW		CP(T)-SP-M-length	CM(T)-P07-M-length	I	JAM-P9-P4	
MS6H-60CM30B1-20P4 ^{NEW}		CP(T)-SP-BM-length	CM(T)-P07-M-length	I	JAM-P9-P4	
MS6H-60CS30BZ1-20P4 NEW		CP(T)-SP-M-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS6H-60CM30BZ1-20P4 ^{NEW}		CP(T)-SP-BM-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5S-80ST□-CS02430B-20P7-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	I	JAM-P9-P4	
MS5S-80ST□-CM02430B-20P7-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	I	JAM-P9-P4	
MS5S-80ST□-CS02430BZ-20P7-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5S-80ST□-CM02430BZ-20P7-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5H-80ST□-CS02430B-20P7-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	1	JAM-P9-P4	
MS5H-80ST□-CM02430B-20P7-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	1	JAM-P9-P4	
MS5H-80ST□-CS02430BZ-20P7-S01		CP(T)-SP-M-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5H-80ST□-CM02430BZ-20P7-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS-80ST□-T02430B□-20P7		CP(T)-SP-B-length	CM(T)-P07-length	1	JAM-P9-P4	
MS-80ST□-T03520B□-20P7		CP(T)-SP-B-length	CM(T)-P07-length	1	JAM-P9-P4	
MS5G-130STE-CS05415B-20P8-S01		CP(T)-SP-M-length	CM(T)-L15A-length	1	JAM-C10-L7	
MS5G-130STE-CM05415B-20P8-S01		CP(T)-SP-B-length	CM(T)-L15A-length	1	JAM-C10-L7	
MS5G-130STE-CS05415BZ-20P8-S01		CP(T)-SP-M-length	CMB(T)-L15A-length	1	JAM-C10-L7	
MS5G-130STE-CM05415BZ-20P8-S01		CP(T)-SP-B-length	CMB(T)-L15A-length	1	JAM-C10-L7	
MS5G-130STE-TL05415B-20P8-S01	DS5E/L/C/F/K-20P7-PTA	CP(T)-SP-B-length	CM(T)-L15A-length	1	JAM-C10-L7	
MS5G-130STE-TL05415BZ-20P8-S01	W5E3-21P5-PTA	CP(T)-SP-B-length	CMB(T)-L15A-length	1	JAM-C10-L7	
MS5S-80ST□-CS03230B□-21P0-S01	W3E3-211 3-1 1A	CP(T)-SP-M-length	CM(T)-P07-M-length			
MS5S-80ST□-CM03230B□-21P0-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length	with brake needs to use CB(T)-P03-length	without brake model: JAM-P9- with brake model: JAM-P9-P4-	
MS5H-80ST□-CS03230B□-21P0-S01		CP(T)-SP-M-length	CM(T)-P07-M-length			
MS5H-80ST - CM03230B -21P0-S01		CP(T)-SP-BM-length	CM(T)-P07-M-length			
MS6S-80CS30B1-20P7 NEW		CP(T)-SP-M-length	CM(T)-P07-M-length	1	JAM-P9-P4	
MS6S-80CM30B1-20P7 NEW				1	JAM-P9-P4	
MS6S-80CM30DI-2017 MS6S-80CS30BZ1-20P7 ^{敬请期待}		CP(T)-SP-BM-length	CM(T)-P07-M-length	(D)(T) D02 I		
MS6S-80CM30BZ1-20P7 WS6S-80CM30BZ1-20P7 Wighth		CP(T)-SP-M-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
		CP(T)-SP-BM-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS6H-80CS30B1-20P7 NEW		CP(T)-SP-M-length	CM(T)-P07-M-length	I	JAM-P9-P4	
MS6H-80CM30B1-20P7 NEW		CP(T)-SP-BM-length	CM(T)-P07-M-length	/	JAM-P9-P4	
MS6H-80CS30BZ1-20P7 敬请期待		CP(T)-SP-M-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS6H-80CM30BZ1-20P7 ^{酸请期待}		CP(T)-SP-BM-length	CM(T)-P07-M-length	CB(T)-P03-length	JAM-P9-P4-P2	
MS5S-110STE-CS03230B□-21P0-S01		CP(T)-SP-M-length	CM(T)-L15-length	I	JAM-L15-L4	
MS5S-110STE-CM03230B□-21P0-S01		CP(T)-SP-B-length	CM(T)-L15-length	1	JAM-L15-L4	
MS5S-110STE-TL03230B□-21P0-S01	DS5E/L/C/F/K-21P5-PTA	CP(T)-SP-B-length	CM(T)-L15-length	1	JAM-L15-L4	
MS-110ST□-T04030B□-21P2	W5E3-21P5-PTA	CP(T)-SP-B-length	CM(T)-L15-length	1	JAM-L15-L4	
MS-110ST□-T05030B□-21P5		CP(T)-SP-B-length	CM(T)-L15-length	1	JAM-L15-L4	
MS5S-110STE-CS04830B□-21P5-S01		CP(T)-SP-M-length	CM(T)-L15-length	1	JAM-L15-L4	
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Motor model	Adapted driver	Encoder cable	Power cable	Brake cable	Cable parts
MS5S-110STE-TL04830B□-21P5-S01	DS5E/L/C/F/K-21P5-PTA W5E3-21P5-PTA	CP(T)-SL-B-length	CM(T)-L15-length	/	JAM-L15-L4
MS-130ST-T06025B□-21P5		CP(T)-SL-B-length	CM(T)-L15-length	/	JAM-L15-L4
MS-130ST-T10015B□-21P5		CP(T)-SL-B-length	CM(T)-L15-length	/	JAM-L15-L4
MS5G-130STE-CS07220B-21P5-S01		CP(T)-SC-M-length	CM(T)-L15-length	/	JAM-C10-L4
MS5G-130STE-CM07220B-21P5-S01		CP(T)-SC-B-length	CM(T)-L15-length	/	JAM-C10-L4
MS5G-130STE-CS07220BZ-21P5-S01		CP(T)-SC-M-length	CMB(T)-L15-length	/	JAM-C10-L7
MS5G-130STE-CM07220BZ-21P5-S01		CP(T)-SC-B-length	CMB(T)-L15-length	/	JAM-C10-L7
MS5G-130STE-TL07220B-21P5-S01		CP(T)-SC-B-length	CM(T)-L15-length	/	JAM-C10-L4
MS5G-130STE-TL07220BZ-21P5-S01		CP(T)-SC-B-length	CMB(T)-L15-length	/	JAM-C10-L7
MS5G-130STE-CS11515B-21P8-S01		CP(T)-SC-M-length	CM(T)-L15-length	/	JAM-C10-L4
MS5G-130STE-CM11515B-21P8-S01		CP(T)-SC-B-length	CM(T)-L15-length	1	JAM-C10-L4
MS5G-130STE-CS11515BZ-21P8-S01		CP(T)-SC-M-length	CMB(T)-L15-length	1	JAM-C10-L7
MS5G-130STE-CM11515BZ-21P8-S01		CP(T)-SC-B-length	CMB(T)-L15-length	1	JAM-C10-L7
MS5G-130STE-TL11515B-21P8-S01		CP(T)-SC-B-length	CM(T)-L15-length	/	JAM-C10-L4
MS5G-130STE-TL11515BZ-21P8-S01		CP(T)-SC-B-length	CMB(T)-L15-length	/	JAM-C10-L7
MS5S-110STE-TL06030B□-21P8-S01		CP(T)-SL-B-length	CM(T)-L15-length	,	JAM-L15-L4
MS5S-110STE-CS06030B□-21P8-S01	DS5E/L/C/F/K-22P3-PTA	CP(T)-SL-M-length	CM(T)-L15-length	1	JAM-L15-L4
MS5S-110STE-CM06030B□-21P8-S01	D33E, E, C, T, N 22F 3 T 1N	CP(T)-SL-B-length	CM(T)-L15-length	1	JAM-L15-L4
MS5G-130STE-CS14615B-22P3-S01		CP(T)-SC-M-length	CM(T)-L15-length	1	JAM-C10-L4
NS5G-130STE-CM14615B-22P3-S01		CP(T)-SC-B-length	CM(T)-L15-length	1	JAM-C10-L4
IS5G-130STE-CS14615BZ-22P3-S01		CP(T)-SC-M-length	CMB(T)-L15-length	1	JAM-C10-L7
IS5G-130STE-CM14615BZ-22P3-S01		CP(T)-SC-B-length	CMB(T)-L15-length	1	JAM-C10-L7
IS5G-130STE-TL14615B-22P3-S01		CP(T)-SC-B-length	CM(T)-L15-length	1	JAM-C10-L4
IS5G-130STE-TL14615BZ-22P3-S01		CP(T)-SC-B-length	CMB(T)-L15-length	1	JAM-C10-L7
IS-130STE-T07730B□-22P4		CP(T)-SL-B-length	CM(T)-L15-length	1	JAM-L15-L4
IS-130STE-T07730B□-22P4		CP(T)-SL-B-length	CM(T)-L15-length	1	JAM-L15-L4
IS-130ST-TL10025B□-22P6	DS5E/L/C/F/K-22P6-PTA	CP(T)-SL-B-length	CM(T)-L15-length	1	JAM-L15-L4
IS5G-130STE-CS11515B-41P8-S01		CP(T)-SC-M-length	CM(T)-L15-length	1	JAM-C10-L4
IS5G-130STE-CM11515B-41P8-S01		CP(T)-SC-B-length	CM(T)-L15-length	1	JAM-C10-L4
ISSG-130STE-CS1515BZ-41P8-S01		CP(T)-SC-M-length	CMB(T)-L15-length	1	JAM-C10-L7
S5G-130STE-CM11515BZ-41P8-S01	DS5E/C-41P5-PTA	CP(T)-SC-B-length	CMB(T)-L15-length	1	JAM-C10-L7
ISSG-130STE-TL11515B-41P8-S01		CP(T)-SC-B-length	CM(T)-L15-length	1	JAM-C10-L4
NS5G-130STE-TL11515BZ-41P8-S01		CP(T)-SC-B-length	CMB(T)-L15-length	1	JAM-C10-L7
ISSG-130ST-CS14615B-42P3-S01		CP(T)-SC-M-length	CM(T)-L15-length	/	JAM-C10-L4
S5G-130ST-CM14615B-42P3-S01		CP(T)-SC-B-length	CM(T)-L15-length	1	JAM-C10-L4
ISSG-130ST-CS14615BZ-42P3-S01	DS5E/C/F/K-43P0-PTA	CP(T)-SC-M-length	CMB(T)-L15-length	/	JAM-C10-L7
MS5G-130ST-CM14615BZ-42P3-S01		CP(T)-SC-M-length	CMB(T)-L15-length	/	JAM-C10-L7
MS5G-130ST-TL14615B-42P3-S01		CP(T)-SC-B-length	CMB(T)-L15-length	/	JAM-C10-L4
ISSG-130ST-TL14015B-42F3-501		CP(T)-SC-B-length	CMB(T)-L15-length	/	JAM-C10-L7
IS5G-180STE-TL19015B□-42P9-S01		CP(T)-SC-B-length	CMB(T)-L15-length	/	JAM-L15-XL4
MS-130ST-TL10030B(Z)-43P0				/	JAM-L15-XL4
IS5G-180STE-TL28015B□-44P4-S01		CP(T)-SL-B-length	CM(T)-L15-length	/	JAM-L15-L4
MS5G-180STE-TL28013B□-44F4-301	DS5E/C/F-45P5-PTA	CP(T)-SL-B-length CP(T)-SL-B-length	CM(T)-XL60-length CM(T)-XL60-length	1	JAM-L15-XL4
MS5G-180STE-TL48015B□-47P5-S01	DS5E/C/F-47P5-PTA	CP(T)-SL-B-length	. ,	1	JAM-L15-XL4
MS-220STE-TL70015B -411P0-XJ	DS5E-411P0-PTA	. ,	CM(T)-XL60-length	1	JAM-L1J-AL4
MS-220STE-TL70015B411P0-XJ	DS5E-411P0-PTA DS5E-415P0-PTA	CPT-ZDL-B-length	CM(T)-D60-length	1	1

Model configuration list

Suffix S02 series (below 750W small aviation plug)

Motor model	Adapted driver	Encoder cable	Power cable
MS5S-40ST□-CS00330B-20P1-S02		CPT-SW-M-length	CMT-W07-M-length
MS5S-40ST□-CM00330B-20P1-S02	DS5E/L/C/F/K-20P1-PTA	CPT-SW-BM-length	CMT-W07-M-length
MS5S-40ST□-CS00330BZ-20P1-S02	D33E/E/C/1/1K 2011 1 1/K	CPT-SW-M-length	CMBT-W07-M-length
MS5S-40ST□-CM00330BZ-20P1-S02		CPT-SW-BM-length	CMBT-W07-M-length
MS5S-60ST - CS00630B-20P2-S02		CPT-SW-M-length	CMT-W07-M-length
MS5S-60ST - CM00630B-20P2-S02		CPT-SW-BM-length	CMT-W07-M-length
MS5S-60ST - CS00630BZ-20P2-S02		CPT-SW-M-length	CMBT-W07-M-length
MS5S-60ST - CM00630BZ-20P2-S02	DS5E/L/C/F/K-20P2-PTA	CPT-SW-BM-length	CMBT-W07-M-length
MS5H-60ST□-CS00630B-20P2-S02	D002/2/0/1/11 2012 1 1/1	CPT-SW-M-length	CMT-W07-M-length
MS5H-60ST - CM00630B-20P2-S02		CPT-SW-BM-length	CMT-W07-M-length
MS5H-60ST□-CS0O630BZ-20P2-S02		CPT-SW-M-length	CMBT-W07-M-length
MS5H-60ST□-CM0O630BZ-20P2-S02		CPT-SW-BM-length	CMBT-W07-M-length
MS5S-60ST□-CS01330B-20P4-S02		CPT-SW-M-length	CMT-W07-M-length
MS5S-60ST□-CM01330B-20P4-S02		CPT-SW-BM-length	CMT-W07-M-length
MS5S-60ST - CS01330BZ-20P4-S02		CPT-SW-M-length	CMBT-W07-M-length
MS5S-60ST - CM01330BZ-20P4-S02	DS5E/L/C/F/K-20P4-PTA	CPT-SW-BM-length	CMBT-W07-M-length
MS5H-60ST - CS01330B-20P4-S02		CPT-SW-M-length	CMT-W07-M-length
MS5H-60ST - CM01330B-20P4-S02		CPT-SW-BM-length	CMT-W07-M-length
MS5H-60ST□-CS01330BZ-20P4-S02		CPT-SW-M-length	CMBT-W07-M-length
MS5H-60ST□-CM01330BZ-20P4-S02		CPT-SW-BM-length	CMBT-W07-M-length
MS5S-80ST□-CS02430B-20P7-S02		CPT-SW-M-length	CMT-W07-M-length
MS5S-80ST□-CM02430B-20P7-S02		CPT-SW-BM-length	CMT-W07-M-length
MS5S-80ST - CS02430BZ-20P7-S02		CPT-SW-M-length	CMBT-W07-M-length
MS5S-80ST - CM02430BZ-20P7-S02		CPT-SW-BM-length	CMBT-W07-M-length
MS5H-80ST□-CS02430B-20P7-S02		CPT-SW-M-length	CMT-W07-M-length
MS5H-80ST□-CM02430B-20P7-S02		CPT-SW-BM-length	CMT-W07-M-length
MS5H-80ST□-CS02430BZ-20P7-S02		CPT-SW-M-length	CMBT-W07-M-length
MS5H-80ST□-CM02430BZ-20P7-S02		CPT-SW-BM-length	CMBT-W07-M-length
MS5S-80ST - CS03230B-21P0-S02	DS5E/L/C/F/K-20P7-PTA	CPT-SW-M-length	CMT-W07-M-length
MS5S-80ST□-CM03230B-21P0-S02		CPT-SW-BM-length	CMT-W07-M-length
MS5S-80ST□-CS03230BZ-21P0-S02		CPT-SW-M-length	CMBT-W07-M-length
MS5S-80ST□-CM03230BZ-21P0-S02		CPT-SW-BM-length	CMBT-W07-M-length
MS5H-80ST□-CS03230B-21P0-S02		CPT-SW-M-length	CMT-W07-M-length
MS5H-80ST□-CM03230B-21P0-S02		CPT-SW-BM-length	CMT-W07-M-length
MS5H-80ST - CS03230BZ-21P0-S02		CPT-SW-M-length	CMBT-W07-M-length
MS5H-80ST - CM03230BZ-21P0-S02		CPT-SW-BM-length	CMBT-W07-M-length