

Servo system overview

Small-sized servo system

The small volume servo system has four subseries products of pulse type and bus type. In addition to all the functions of the general series, its outstanding advantage is that it is smaller and can save more installation space. Applicable to 3C, textile, printing, packaging, food, medicine, electronics, environmental protection and other fields. Adaptive motor: MS5, MS6 series.

Bus type	DS5C1	0.1kW~55kW	EtherCAT
	DS5N1	0.1kW~3kW	CANopen
Pulse type	DS5L1	0.1kW~3kW	Modbus <small>[1kW-3kW have dynamic brake]</small>
	DS5L2	0.1kW~0.7kW	Modbus <small>Performance improved</small>
	DS5K1	0.1kW~55kW	Modbus <small>[1kW-3kW have dynamic brake]</small>



Low voltage servo system

At present, the low-voltage servo system has a bus type subseries. It has compact design, light weight body, rich interfaces, supports communication protocols such as CANopen and Modbus, low-voltage DC power supply, with 24V brake power output, and only three steps for gain adjustment, which reduces the debugging time. It is applicable to AGV, sorting, logistics, warehousing and medical fields. Adaptive motor: MF3 series.

Bus type	DF3E	0.4kW~1.5kW	CANopen
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*Note : refer to the model list that have been put into production. Please look forward to the development of some models.



General servo system

The general servo system has a complete product line, including five subseries of pulse type, bus type and full-function type. It has the characteristics of high-speed response, accurate synchronization, rapid adjustment, convenience and ease of use. Suitable for a variety of applications. Adaptive motor: MS5, MS6 series.

Bus type	DS5P	0.1kW~0.7kW	PROFINET
	DS5C	1.0kW~32kW	EtherCAT
	DS5E	0.1kW~22kW	X-NET
Pulse type	DS5L	0.1kW~2.6kW	Modbus
	DS5K	0.1kW~7.5kW	Modbus
Full-function type	DS5F	0.1kW~7.5kW	Modbus

*Note : refer to the model list that have been put into production. Please look forward to the development of some models.



Two-in-one servo system

At present, the two-in-one series servo system has a pulse type subseries. It has outstanding advantages such as flat appearance, dual-axis integrated drive, convenient wiring and accurate positioning. It has built-in gantry synchronous control, which can meet the accuracy requirements under high-speed movement. Suitable for sewing, wire cutting, laser cutting, printing, turret punch and other equipment. Adaptive motor: MS5, MS6 series.

Bus type	DM5C	0.7kW~5.5kW	EtherCAT
Pulse type	DM5F	0.4kW~0.75kW	Modbus



General | small-sized servo system

Stable and easy to use Excellent Performance High-speed Response
Rich Product Lineup

Suitable for : wire cutting, packaging, textile, woodworking, labeling and other applications



Small-sized series



Bus type	DS5C1	DS5C1 EtherCAT, RS232, 3/5-channels SI, 3-channel/4-channel SO, position mode, speed mode, torque mode, bus mode
	DS5N1	DS5N1 CANopen, RS232, 3-channel SI, 3-channel SO, position mode, speed mode, torque mode, bus mode
Pulse type	DS5L1/L2	DS5L1/L2 pulse, RS232, RS485, 3-channel/5-channel SI, 3-channel SO, position mode, speed mode, torque mode
	DS5K1	DS5K1 pulse, analog input, RS485, RS232, 8/5-channels SI, 6/4-channels SO, position mode, speed mode, torque mode

General series



Bus type	DS5P	PROFINET, RS232, 5-channel SI, 3-channel SO, Support message 1, 3 and Siemens message 102/105/111/750
	DS5C	EtherCAT, pulse, RS232, 4 or 3 channels SI, 4 or 3 channels SO, position mode, speed mode, torque mode, bus mode
	DS5E	XNET, pulse, RS232, RS485, 4 or 3 channels SI, 4 or 3 channels SO, position mode, speed mode, torque mode, bus mode
Pulse type	DS5L	pulse, RS232, 4 or 3 channels SI, 4 or 3 channels SO, position mode, speed mode, torque mode
	DS5K	pulse, RS232, RS485, 5 channels SI, 4 channels SO, position mode, speed mode, torque mode
Full-function type	DS5F	Pulse pulse, line driver, analog input, external displacement sensor, RS232, RS485, 10 channels SI, 8 channels SO, position mode, speed mode, torque mode, analog control, full closed-loop control

MS6,MS5 series servo motor



High inertia	MS6H	0.1~7.5kW	Occasions with large load and high stability requirements
Medium inertia	MS5G	0.85~22kW	Occasions with general load and high stability requirements
	MS6G	0.85~2.3kW	
Low inertia	MS6S	0.4~2.0kW	Occasions with light load and high-speed positioning requirements

MS6,MS5 series servo motor

High protection grade | light weight design | high-precision positioning



■ New appearance and structure

MS6 series B3 motor

- The new black body with frosted texture can effectively reduce the tactile temperature of the motor.



■ Low noise, light temperature rise

- Effective noise reduction. Compared with the previous motor, the winding temperature rise of B3 motor can be reduced by 20°C (take 400W as an example).



■ Higher protection level

- The structure of MS6 series motor is optimized to further improve the protection grade. The protection grade of B1/B2 series can reach IP66 and B3 series can reach IP67.



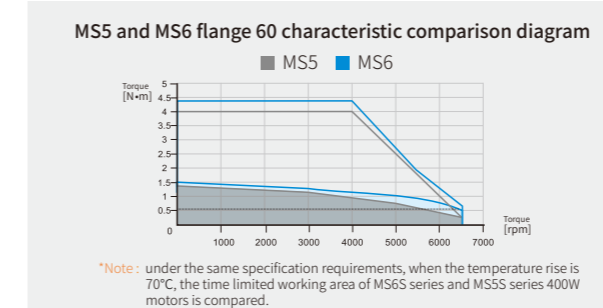
■ Motor is light and handy

- The body of MS6 series motor is further shortened, which can be shortened by 18% compared with MS5 series motor.



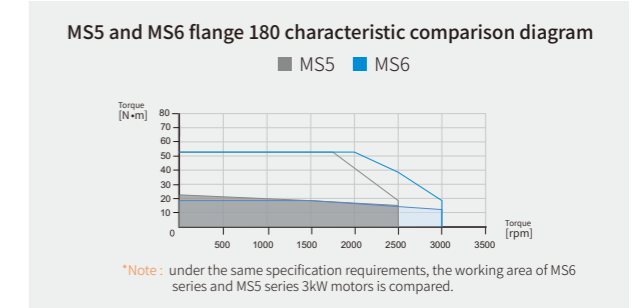
■ Higher torque output

- At present, the speed of MS6 series 400W motor can be overspeed to 6500rpm, and the maximum speed still maintains 80% of the rated output.



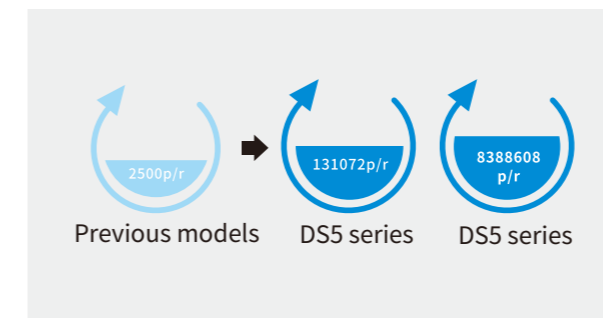
■ Wider overspeed range

- MS6 series flange 180 motor can overspeed up to 3000rpm, which is 20% higher than MS5 series.



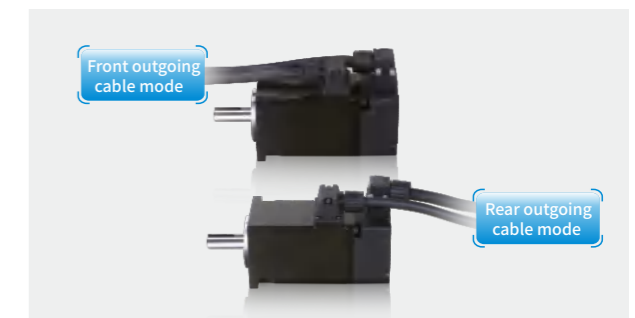
■ Encoder resolution

- The whole series is equipped with 17-bit encoder as standard, and 23-bit encoder is optional.
- Achieve higher precision position control and stable operation at low speed.
- The anti-oil and vibration ability of magnetic encoder is enhanced.



■ Flexible configuration to meet different needs

- Low inertia, medium inertia and high inertia motors are available.
- It can be equipped with power loss brake, oil seal, etc.
- B3 series front and rear outgoing cables are optional.
- B3series can be configured with connector to amp adapter.
- B3 series can select oil-resistant cable.



DS5 series servo drive

Precise synchronization | high-speed response
rapid adjustment | easy to use



Smaller size, saving installation space

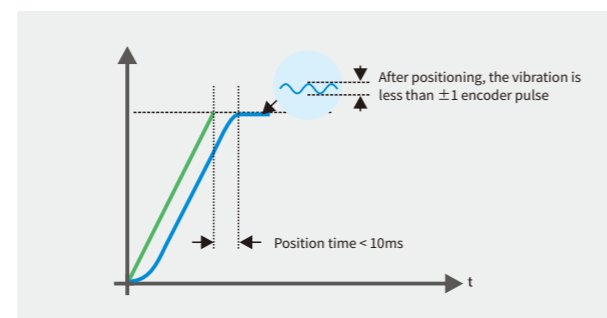
- The size is about 10% thinner than the previous generation.
- Save installation space.

*Note: the figure shows the comparison of DS5L 750W and DS5L1 750W.



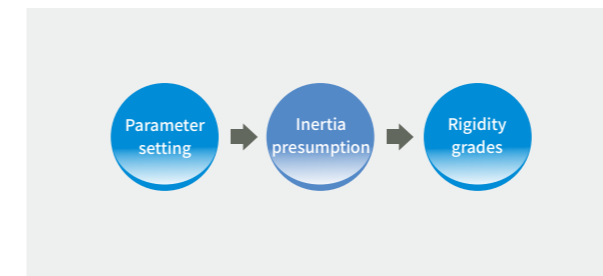
High speed response

- The rigid gain adjustment mode of servo system is self-tuning mode, which no need complicated adjustment process and greatly saves debugging time.
- By further gain adjustment, the positioning completion time can be reduced to 0 ~ 10ms.



Quick adjustment to shorten positioning time

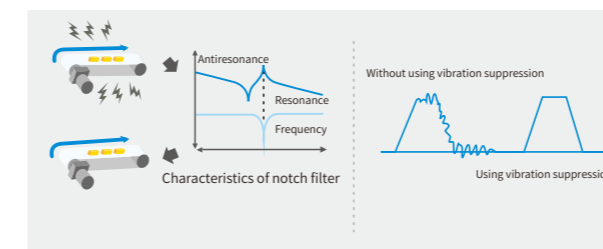
- Load inertia estimation, find the optimal gain, and the positioning completion time is within 20ms.
- The drive panel is adjusted offline.
- 63 rigidity grades.



*Note: DS5L2 covers 32 rigidity grades.

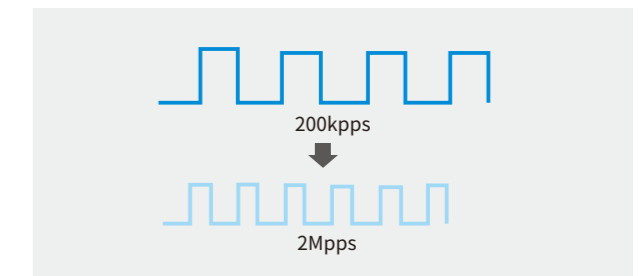
Active/manual vibration suppression

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



High speed pulse input

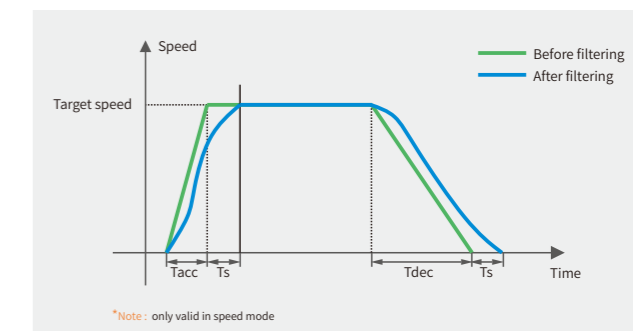
- DS5F supports 2Mpps long line reception.
- The full range of drives supports 200kpps (collector input) and DS5F/DS5K/DS5L1/DS5K1 series drives support 500kpps (differential input).



*Note: DS5N1/DS5C1/DS5P cannot support collector input.

S-type acceleration and deceleration curve

- S-type acceleration and deceleration curve can effectively overcome the mechanical vibration caused by sudden speed change, making the motion softer and more stable.



Wide power range

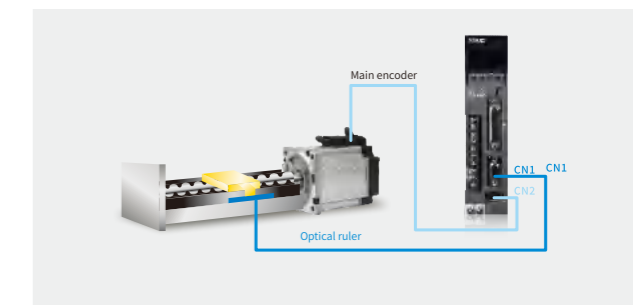
- New high-power models are added for small volume servo, and the power range is from 100W to 55kW.



*Note: please refer to the model list that have been put into operation, and some models are under development.

Full closed-loop input DS5F series

- Reduce mechanical disturbance and determine the positioning of mechanical load terminal to ensure positioning accuracy.



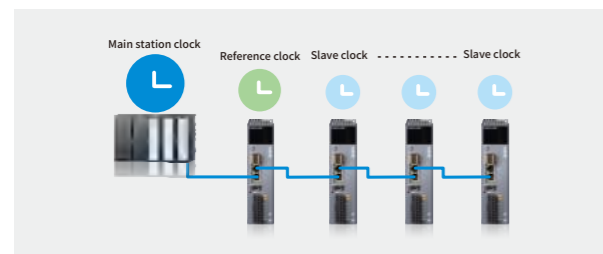
EtherCAT bus

100 megabytes full duplex Ethernet reduces the networking cost and makes the system structure more flexible



Synchronous clock

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



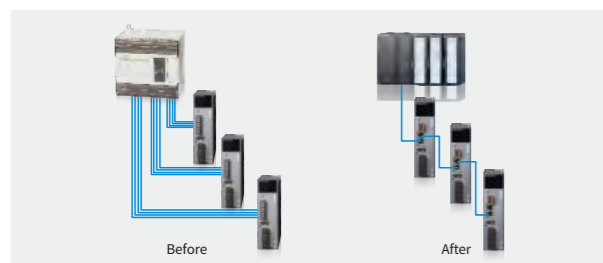
High speed response

- Support 2-channel high speed touch probe function
- Response time can up to 1ms



Network topology to reduce cabling costs

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



EtherCAT networking debugging

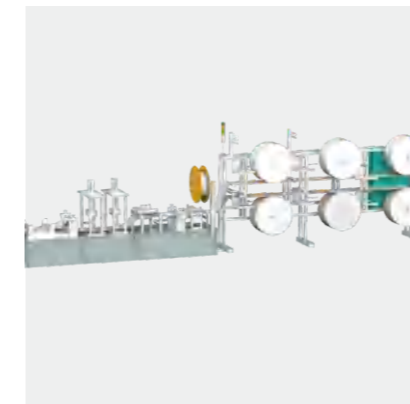
- For EtherCAT networking equipment, the user can read or write all servo axes parameters at one time through the servo software, and can save the complete equipment recipe.



Typical application

One to one high-speed plane mask machine

The mask machine is to manufacture various masks with certain filtering performance by hot pressing, folding and forming, ultrasonic welding, waste cutting, ear belt and nose beam welding and other processes of multi-layer non-woven fabrics. The mask equipment is not a single machine, but needs the cooperation of multiple machines to complete various different processes. The system of one to one mask machine is composed of constant tension feeding mechanism, sheet feeding mechanism and ear welding mechanism.



Mechanical arm

Manipulator is the most widely used automatic mechanical device in the field of robotics. It can be seen in industrial manufacturing, medical treatment, entertainment services, military, semiconductor manufacturing and space exploration. Although their shapes are different, they all have a common feature, that is, they can accept instructions and accurately locate a point in 3D (or 2D) space for operation.



High speed cutting machine

The high-speed cutting machine combines the ultrasonic welding technology with the traditional cutting. When the ultrasonic generator works, the ultrasonic energy is transmitted to the welding head through the ultrasonic transducer and generates violent vibration and friction with the cutter, so as to achieve the cutting effect, so that the cutting products have the advantages of more beauty, firmness, more efficient and fast production efficiency.



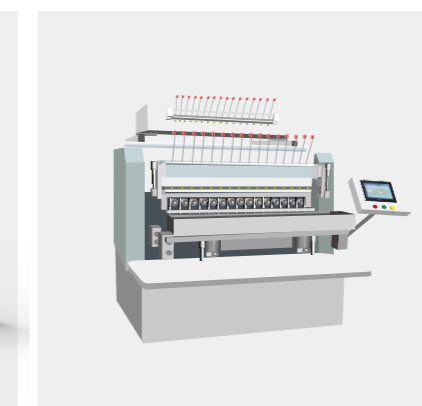
Circular die cutting machine

Circular die cutting machine is one of the most efficient cutting machines, which rotates continuously in the form of hob for cutting. Round knife cutting achieves the purpose of die cutting by extruding materials through the blade and backing roller. On the one hand, it improves the speed and accuracy of die cutting. On the other hand, it can form one-time products through multi-shaft sleeve position die cutting, which makes up for the disadvantage of traditional multiple die cutting.



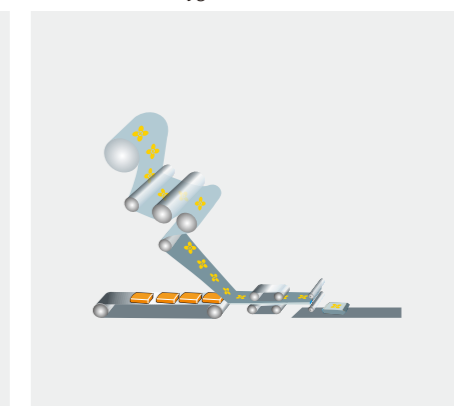
16 axes high speed winding machine

High speed winding machine is a device that winds linear objects to a specific workpiece. It is usually used for copper wire winding. In the past, it used to realize high-speed winding through variable-frequency motor combined with tension control system. With the increasing demand for benefits in modern industry, it can replace the original variable-frequency motor with servo to realize high-speed and high-efficiency production.



Three-servo packaging machine

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



XINJE SERVO software

Help users better understand the operation of the equipment



Servo communication interface

Efficient and fast communication identification

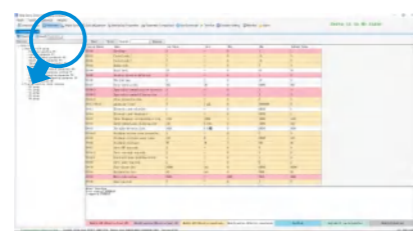
Xinje servo software can do Modbus-RTU communication with servo driver through RS232, and can automatically read motor parameters without viewing motor code.



Parameter setting interface

Intuitive and understandable parameter setting

Xinje servo software has the functions of reading, modifying, saving and downloading, and is equipped with detailed parameter description. The parameter list directly indicates the effective time of parameters with different colors, which makes the distinction more eye-catching.



Curve acquisition interface

Convenient and practical curve acquisition

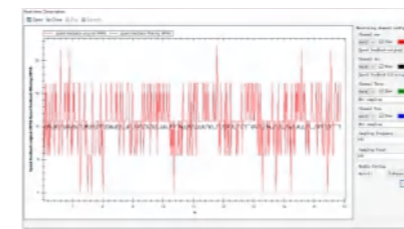
Xinje servo software has powerful servo data acquisition function, including speed, position, current, bus voltage and other basic information acquisition. Help you have a deeper and comprehensive understanding of servo operation and improve the control scheme.



Real time observation interface

Real time dynamic curve observation

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



Parameter comparison interface

Simple and clear parameter comparison

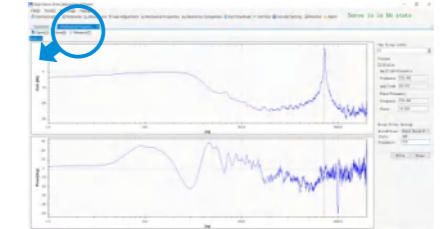
The parameter comparison function of Xinje servo software allows customers to easily compare preset values, current driver values, file values, and pairwise comparison of the current upper computer interface.

Code	Name	Unit	Original Function	Value	Current Value	File Value
P000	Control mode	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P001	Motor mode	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P002	Speed limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P003	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P004	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P005	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P006	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P007	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P008	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P009	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P010	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P011	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P012	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P013	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P014	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P015	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P016	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P017	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P018	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P019	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0
P020	Position limit	Motor 0	Motor 0	Motor 0	Motor 0	Motor 0

Mechanical property measurement interface

Precise resonance recognition

Xinje software has the function of mechanical characteristic measurement, which can automatically measure the resonance frequency according to the operation of mechanical load. It is equipped with five notch filters to ensure the stable and reliable operation of the equipment and sweep away the load vibration.



Gain adjustment interface

Fast adjustment

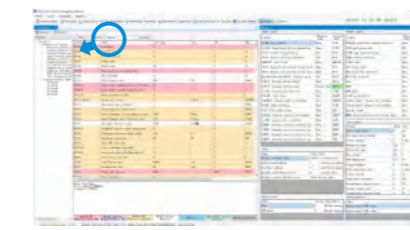
The fast adjustment / self-tuning mode can identify the inertia. The user can configure the appropriate mode, method, load type, foundation and other parameters according to the equipment operation status for the upper computer to set the best gain parameters, or adjust the rigidity level according to the equipment operation status.



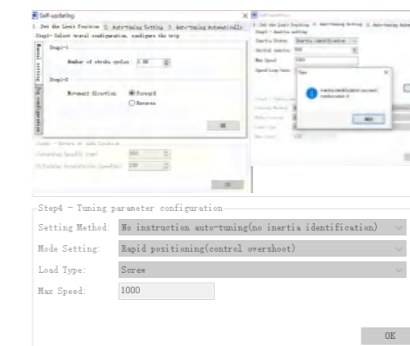
Monitor interface

Rich and comprehensive real-time monitoring

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



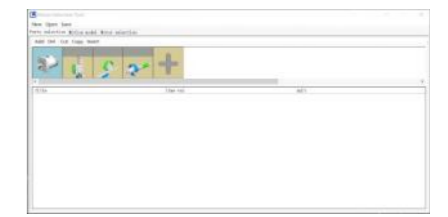
Self-tuning interface



Tool interface

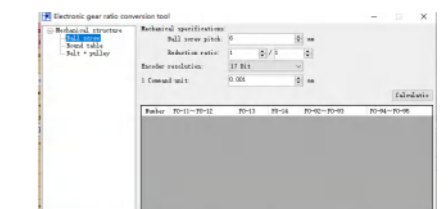
Motor selection tool

Xinje servo software has its own motor selection tool, which automatically matches the best motor model through the selection of equipment components and the establishment of motion model.



Electronic gear ratio conversion

Xinje servo software can accurately calculate the number of pulses per revolution and electronic gear ratio of screw, disc and pulley mechanical structures according to the mechanical specifications.



Naming rule

MS6 motor naming rule

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

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Inertia type		② Base number		③ Encoder construction		④ Encoder specification		⑤ Rated speed		⑩ Rated power	
Sign	Inertia	Sign	Base number	Sign	Type	Sign	Specification	Sign	Rated speed(rpm)	Sign	Rated power(kw)
MS6S	Low inertia motor	40	Base 40	C	Magnetic encoder	S	Single turn 17-bit	15	1500	0P1	0.1
MS6G	Medium inertia motor	60	Base 60	T	Photoelectricity encoder	M	Multi-turn 17-bit	20	2000	0P2	0.2
MS6H	High inertia motor	80	Base 80			L	Multi-turn 23-bit	25	2500	0P4	0.4
		100	Base 100					30	3000	0P7	0.75
		130	Base 130							0P8	0.85
		180	Base 180							1P0	1
										1P3	1.3
										1P5	1.5
										1P8	1.8
										2P0	2.0
										2P3	2.3
										3P0	3.0
										4P4	4.4
										5P5	5.5
										7P5	7.5
										22P0	22
										30P0	30
										37P0	37
										45P0	45
										55P0	55

⑥ Motor shaft specification		⑦ Power-off brake		⑧ Motor connector type		⑨ Power supply voltage	
Sign	Shaft specification	Sign	Power-off brake	Sign	Connector type	Sign	Power supply voltage
A	With key, no oil seal, with threaded hole	Z	With brake	1	AMP plug	2	220V
B	With key, with oil seal, with threaded hole	vacant	Without brake	2	Aviation plug	4	380V
C	No key, no oil seal, with threaded hole			3	Connector		
D	No key, with oil seal, with threaded hole						
E	Special shaft specification (length, shaft diameter, etc.)						

*Note: the description provided is only an example. Refer to the detailed parameters of the motor for the specific model. Our company provides combined models of CS, CM and TL.

MS5 motor naming rule

MS5G - 130 ST E - C S 11515 B Z - 2 1P8 - S01

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Inertia type			② Base number		③ Name		④ Motor structure		⑤ Encoder construction		⑥ Encoder specification	
Sign	Inertia		Sign	Base number	Sign	Type	Sign	Oil seal	Sign	Type	Sign	Specification
MS5S	Low inertia motor		110	Base 110	ST	Sine wave drive motor	vacant	No oil seal	C	Magnetic encoder	S	Single turn 17-bit
MS5G	Medium inertia motor		130	Base 130			E	With oil seal	T	Photoelectricity encoder	M	Multi-turn 17-bit
			220	Base 220							L	Multi-turn 23-bit

⑧ Motor construction		⑩ Power supply voltage		⑪ Rated power		⑫ Design number	
Sign	Shaft key	Sign	Rated power	Sign	Rated power(kw)	Sign	Meaning
B	With key	2	220V	1P0	1.0	S	Standard
		4	380V	1P5	1.5	01	Design number
				1P8	1.8		
				2P3	2.3		
				22P0	22		

*Note: the description provided is only an example. Refer to the detailed parameters of the motor for the specific model. Our company provides combined models of CS, CM, TL and T.

DS5 servo drive naming rule

DS 5□ - □ □ P□ - PTA-H

① ② ③ ④ ⑤ ⑥

① Name		② Type		③ Voltage specification		④ Drive power		⑤ Encoder specification		⑥ Product type	
Sign	Product name	Sign	Product series	Sign	Rated input voltage	Sign	Rated output power(kw)	Sign	Encoder specification	Sign	Product type
DS	Servo drive	5C	EtherCATbus type	2	AC220V	0P1	0.1	T	Communication type encoder	H	Enhanced driver
		5E	X-NETbus type	4	AC380V	0P2	0.2				
		5F	Full function type			0P4	0.4				
		5K	Standard type			0P7	0.75				
		5L	Pulse type			1P0	1.0				
		5C1	Small size bus type			1P5	1.5				
		5L1	Small size pulse type			2P3	2.3				
		5K1	Small size standard type			2P6	2.6				
		5N1	Small size CANopen type			3P0	3.0				
		5L2	Small size pulse improved type			4P5	4.5				
						5P5	5.5				
						7P5	7.5				
						11P0	11				
						15P0	15				
						22P0	22				

Motor and drive specifications

MS6/MS5 motor																						
Item	100W	200W	400W	750W	850W	1.0kW	1.3kW	1.5kW	1.8kW	2.3kW	2.4kW	2.6kW	3.0kW	4.4kW	5.5kW	7.5kW	22kW	30kW	37kW	45kW	55kW	
Low inertia MS6S			60	80		80		100														
Medium inertia MS6G						130		130		130												
High inertia MS6H	40	60	60	80	130	80	130	130	130	130			180	180	180	180			265	265	265	265
Low inertia MS5S						110		110	110													
Medium inertia MS5G					130			130	130	130	130	130					220					

*Note: 40/60/80/110/130/180/220/265 indicates the motor flange. Provide models with voltage grade of 220V. Provide models with voltage grade of 380V. Provide models with voltage grade of 220V/380V. The motor marked with * is still under development. Please look forward to it.

Function	Control mode							Control mode					
	Position control	Speed control	Torque control	Bus control	Pulse	Line driver	Analog input	External displacement sensor	ABZ differential feedback	RS232	RS485	Si input	So output
Pulse type DSSL series	●	●	●	●	●					●	●	4	4
EtherCAT type DSSC series	●	●	●	●	●					●		4	4
Xnet bus type DSSC series	●	●	●	●	●					●	●	4	4
Full function type DSSF series	●	●	●	●	●	●	●	●	●	●	●	10	8
Standard type DSSK series	●	●	●	●	●				●	●	●	5	4
Pulse type DSSL1 series	●	●	●	●	●					●	●	3	3
EtherCAT type DSSC1 series	●	●	●	●	●					●		3	3
Standard type DSSK1 series	●	●	●	●	●		●		●	●	●	8	6
CANopen type DSSN1 series	●	●	●	●	●					●		3	3
Profinet type DSSP series	●	●	●	●	●					●		5	3

*Note: DSSC, DSSL, DSSC series 750W and below power models are 3 inputs and 3 outputs. DSSK1 series above 11kW models are 5 inputs 4 outputs. DSSC1/L1 series 1kW-3kW models are 5 inputs 3 outputs, DSSC1 series 11kW and up models are 5 inputs 4 outputs.

Drive and motor model list

MS6 series motor model list

Power [kW]	Motor model	Flange[mm]	Rated speed[RPM]	Rated torque [Nm]	Inertia type	Encoder bits[bit]
0.1	MS6H-40CS/CM/TL30B(Z)1/3-20P1	40	3000	0.32	High inertia	17/23
0.2	MS6H-60CS/CM/TL30B(Z)1/3-20P2	60	3000	0.64	High inertia	17/23
0.4	MS6S-60CS/CM/TL30B(Z)1/2/3-20P4	60	3000	1.27	Low inertia	17/23
	MS6H-60CS/CM/TL30B(Z)1/2/3-20P4		3000	1.27	High inertia	17/23
0.75	MS6S-80CS/CM/TL30B(Z)1/2/3-20P7	80	3000	2.39	Low inertia	17/23
	MS6H-80CS/CM/TL30B(Z)1/2/3-20P7		3000	2.39	High inertia	17/23
	MS6S-80CS/CM20B(Z)1/2-20P7		2000	3.50	High inertia	17/23
	MS6H-80CS/CM20B(Z)1/2-20P7		2000	3.50	High inertia	17/23
0.85	MS6H-130CS/CM/TL15B(Z)2-20P8	130	1500	5.41	High inertia	17/23
	MS6H-130CS/CM/TL15B(Z)2-40P8		1500	5.41	High inertia	17/23
1	MS6S-80CS/CM/TL30B(Z)3-21P0	80	3000	3.18	Low inertia	17/23
	MS6H-80CS/CM/TL30B(Z)3-21P0		3000	3.18	High inertia	17/23
	MS6G-130CS/CM/TL25B(Z)2-41P0*		130	2500	4.0	Medium inertia
1.3	MS6H-130CS/CM/TL15B(Z)2-41P3	130	1500	8.30	High inertia	17/23
	MS6S-100CS/CM/TL30B(Z)2-21P5		3000	4.8	Low inertia	17/23
1.5	MS6H-130CS/CM/TL20B(Z)2-21P5	130	2000	7.16	High inertia	17/23
	MS6G-130CS/CM/TL20B(Z)2-41P5*		2000	7.16	Medium inertia	17/23
	MS6G-130CS/CM/TL15B(Z)2-41P5*		1500	10.0	Medium inertia	17/23
	MS6H-130CS/CM/TL15B(Z)2-21P8		130	1500	11.46	High inertia
1.8	MS6H-130CS/CM/TL15B(Z)2-41P8	130	1500	11.46	High inertia	17/23
	MS6H-130CS/CM/TL15B(Z)2-22P3		130	1500	14.64	High inertia
2.3	MS6H-130CS/CM/TL15B(Z)2-42P3	130	1500	14.64	High inertia	17/23
	MS6H-180CS/CM15B(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(E)2-45P5		1500	35.0	High inertia	17/23
7.5	MS6H-180CS/CM/TL15B(E)2-47P5		1500	47.8	High inertia	17/23
30	MS6H-265TL15B2-430P0*		265	1500	191.0	High inertia
37	MS6H-265TL15B2-437P0*	265	1500	236.0	High inertia	23
45	MS6H-265TL15B2-445P0*	265	1500	286.0	High inertia	23
55	MS6H-265TL15B2-455P0*	265	1500	350.0	High inertia	23

*Note: 1. B(Z) indicates brake model can be selected, non-brake model code is B, brake model code is BZ.
 2. Please select engineering aviation plug for motors below 60/80 flange.
 3. MS6 series below 80 flange models only B3 can support optical encoder.
 4. The servo driver marked with * is still under development. Please look forward to it.

MS5 series motor model list

Power [kW]	Motor model	Flange[mm]	Rated speed[RPM]	Rated torque [Nm]	Inertia type	Encoder bits[bit]
0.85	MS5G-130STE-CS/CM05415B-20P8-S01	130	1500	5.4	Medium inertia	17
	MS5G-130STE-CS/CM05415BZ-20P8-S01		1500	5.4	Medium inertia	17
	MS5G-130STE-TL05415B-20P8-S01		1500	5.4	Medium inertia	23
	MS5G-130STE-TL05415BZ-20P8-S01		1500	5.4	Medium inertia	23
1.0	MS5S-110STE-CS/CM03230B□-21P0-S01	110	3000	3.18	Low inertia	17
	MS5S-110STE-TL03230B□-21P0		3000	3.18	Low inertia	23
	MS-110STE-T05030B□-21P5		3000	5	/	17
1.5	MS5S-110STE-CS/CM04830B□-21P5-S01	110	3000	4.77	Low inertia	17
	MS5S-110STE-TL04830B□-21P5-S01		3000	4.77	Low inertia	23
	MS5G-130STE-CS/CM06025B□-21P5-S01		2500	6	Medium inertia	17
	MS5G-130STE-CS/CM/TL07220B□-21P5-S01		2000	7.2	Medium inertia	17/23
	MS5G-130STE-CS/CM/TL07220B□-41P5-S01		2000	7.2	Medium inertia	17/23
	MS5G-130STE-CS/CM10015B□-21P5-S01		1500	10	Medium inertia	17
1.8	MS5G-130STE-CS/CM11515B□-21P8-S01	130	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
	MS5S-110STE-TL06030B□-21P8-S01		3000	6	Low inertia	23
	MS5S-110STE-CS/CM06030B□-21P8-S01		3000	6	Low inertia	17
2.3	MS5G-130STE-CS/CM14615B□-22P3-S01	130	1500	14.6	Medium inertia	17
	MS5G-130STE-TL14615B□-22P3-S01		1500	14.6	Medium inertia	23
	MS5G-130STE-CS/CM14615B□-42P3-S01		1500	14.6	Medium inertia	17
	MS5G-130STE-TL14615B□-42P3-S01		1500	14.6	Medium inertia	23
2.4	MS5G-130STE-CS/CM/TL07730B□-22P4-S01	130	3000	7.7	Medium inertia	17/23
2.6	MS5G-130STE-CS/CM/TL10025B□-22P6-S01		2500	10	Medium inertia	17/23
3.0	MS-130ST-TL10030B□-43P0	220	3000	10	/	23
11	MS-220STE-TL70015B-411P0-XJ		1500	70	/	23
15	MS-220STE-TL96015B-415P0-XJ		1500	96	/	23

*Note: 1. B□ indicates brake model can be selected, brake model code is BZ, non-brake model code is B.
 2. CS/CM indicates single turn magnetic encoder CS or multi-turn magnetic encoder CM can be selected.
 3. Flange 110 and up code S01 motors are aviation plug.
 4. For other detailed motor characteristic parameters, please refer to the electrical parameters

DS5 series drive model list

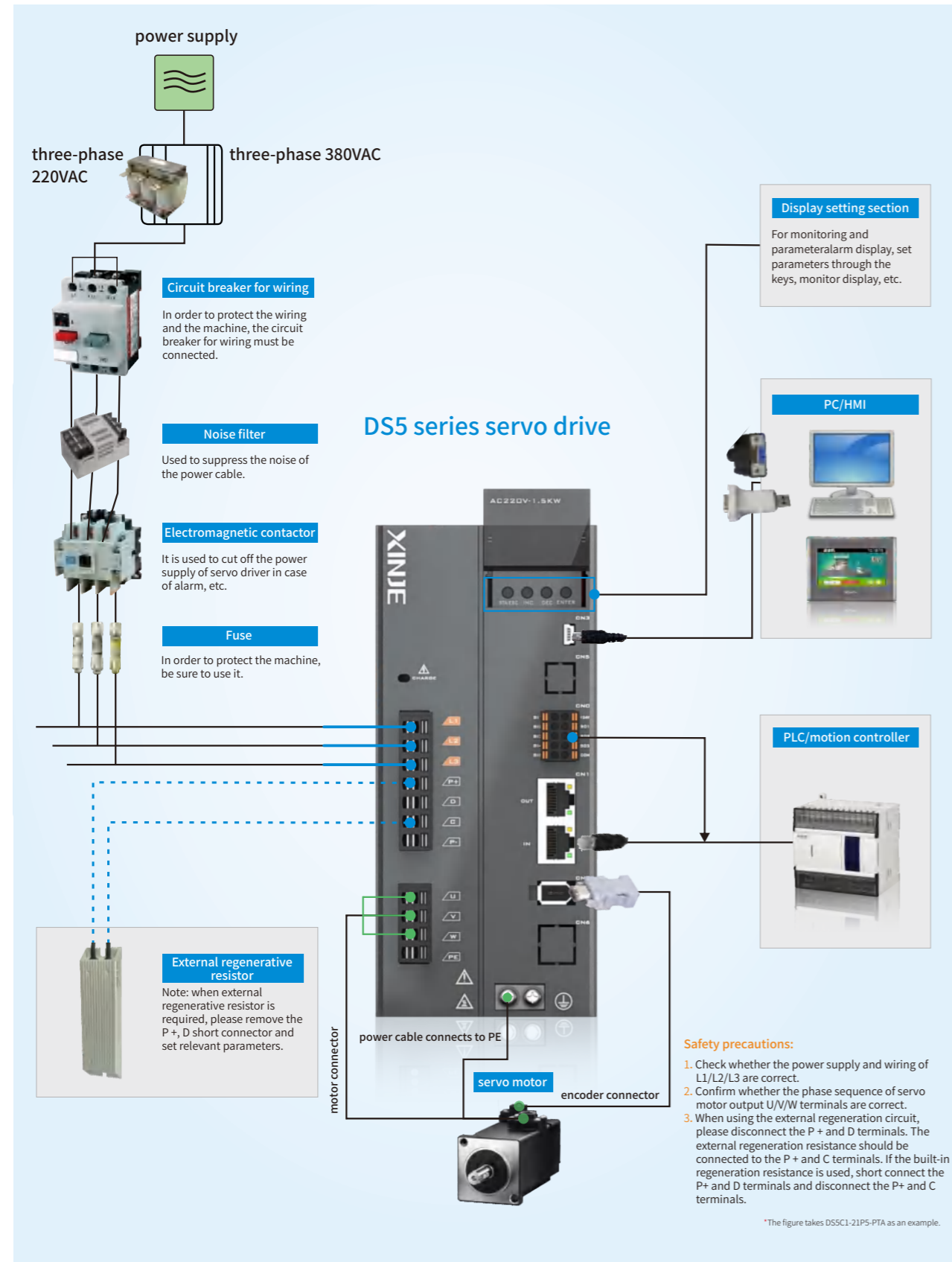
Series	DS5E Series X-NETbus type	DS5C Series EtherCATbus type	DS5F Series function type	DS5K Series standard type	DS5L Series pulse type	DS5P Series PROFINET Profinet bus type
Power[kW]						
0.1	DS5E-20P1-PTA	/	DS5F-20P1-PTA	DS5K-20P1-PTA	/	DS5P-20P1-PTA
0.2	DS5E-20P2-PTA	/	DS5F-20P2-PTA	DS5K-20P2-PTA	/	DS5P-20P2-PTA
0.4	DS5E-20P4-PTA	/	DS5F-20P4-PTA	DS5K-20P4-PTA	/	DS5P-20P4-PTA
0.75	DS5E-20P7-PTA	/	DS5F-20P7-PTA	DS5K-20P7-PTA	/	DS5P-20P7-PTA
1.0	DS5E-21P0-PTA	DS5C-21P0-PTA	DS5F-21P0-PTA	DS5K-21P0-PTA	DS5L-21P0-PTA	/
1.5	DS5E-21P5-PTA	DS5C-21P5-PTA	DS5F-21P5-PTA	DS5K-21P5-PTA	DS5L-21P5-PTA	/
2.3	DS5E-22P3-PTA	DS5C-22P3-PTA	DS5F-22P3-PTA	DS5K-22P3-PTA	DS5L-22P3-PTA	/
2.6	DS5E-22P6-PTA	/	DS5F-22P6-PTA	DS5K-22P6-PTA	/	/
1	DS5E-41P0-PTA	DS5C-41P0-PTA	DS5F-41P0-PTA	DS5K-41P0-PTA	/	/
1.5	DS5E-41P5-PTA	/	DS5F-41P5-PTA	DS5K-41P5-PTA	/	/
3	DS5E-43P0-PTA-H	DS5C-43P0-PTA-H	DS5F-43P0-PTA-H	DS5K-43P0-PTA	/	/
5.5	DS5E-45P5-PTA-H	DS5C-45P5-PTA-H	DS5F-45P5-PTA-H	/	/	/
7.5	DS5E-47P5-PTA-H	DS5C-47P5-PTA-H	DS5F-47P5-PTA-H	/	/	/
11	DS5E-411P0-PTA	DS5C-411P0-PTA	/	/	/	/
15	DS5E-415P0-PTA	DS5C-415P0-PTA	/	/	/	/
22	DS5E-422P0-PTA	DS5C-422P0-PTA	/	/	/	/
32	/	DS5C-432P0-PTA	/	/	/	/
37	/	/	/	/	/	/
45	/	/	/	/	/	/
55	/	/	/	/	/	/

Series	DS5C1 Series small size bus type	DS5N1 Series small size bus type	DS5K1 Series small size standard type	DS5L1 Series small size bus type	DS5L2 Series small size pulse improved type
Power[kW]					
0.1	DS5C1-20P1-PTA	DS5N1-20P1-PTA	DS5K1-20P1-PTA*	DS5L1-20P1-PTA	DS5L2-20P1-PTA*
0.2	DS5C1-20P2-PTA	DS5N1-20P2-PTA	DS5K1-20P2-PTA*	DS5L1-20P2-PTA	DS5L2-20P2-PTA*
0.4	DS5C1-20P4-PTA	DS5N1-20P4-PTA	DS5K1-20P4-PTA*	DS5L1-20P4-PTA	DS5L2-20P4-PTA*
0.75	DS5C1-20P7-PTA	DS5N1-20P7-PTA	DS5K1-20P7-PTA	DS5L1-20P7-PTA	DS5L2-20P7-PTA*
1.0	DS5C1-21P0-PTA	/	/	DS5L1-21P0-PTA	/
1.5	DS5C1-21P5-PTA	/	/	DS5L1-21P5-PTA	/
2.3	DS5C1-22P3-PTA	/	/	DS5L1-22P3-PTA	/
2.6	DS5C1-22P6-PTA	/	/	DS5L1-22P6-PTA	/
1	DS5C1-41P0-PTA	/	/	DS5L1-43P0-PTA	/
1.5	DS5C1-41P5-PTA	/	/	/	/
2.3	DS5C1-42P3-PTA	/	/	/	/
3	DS5C1-43P0-PTA	/	/	/	/
5.5	DS5C1-45P5-PTA*	/	/	/	/
7.5	DS5C1-47P5-PTA*	/	/	/	/
11	DS5C1-411P0-PTA	/	DS5K1-411P0-PTA	/	/
15	DS5C1-415P0-PTA	/	DS5K1-415P0-PTA	/	/
22	DS5C1-422P0-PTA	/	/	/	/
32	DS5C1-432P0-PTA	/	/	/	/
37	DS5C1-437P0-PTA*	/	/	/	/
45	DS5C1-445P0-PTA*	/	/	/	/
55	DS5C1-455P0-PTA*	/	/	/	/

*Note: the servo driver marked with * is still under development. Please look forward to it.

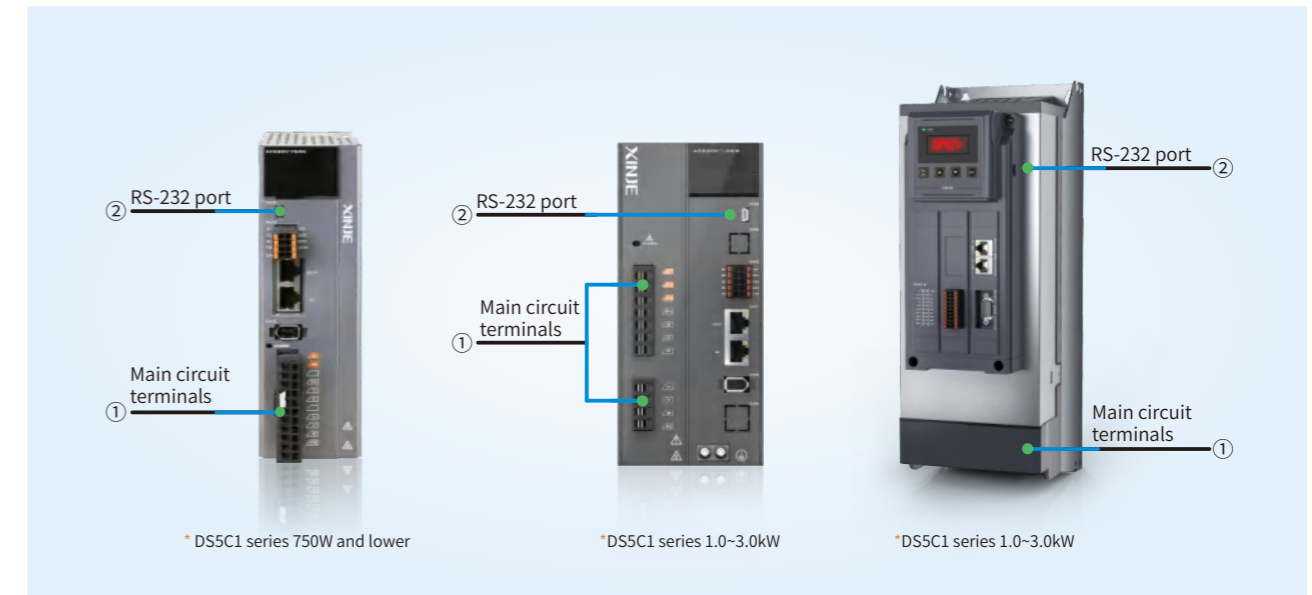
Peripheral connection

DS5 series



Terminal definition

DS5C1 series



① Main circuit terminal definition

DS5C1-20P1/20P2/20P4-PTA

Terminal	Function	Explanation
L/N	Main circuit power supply input terminal	Single phase AC200-240V, 50/60Hz
●	Vacant terminal	/
P+, C	Use external regenerative resistor	Connect the regeneration resistance to terminals P+ and C, P0-25 = power value, P0-26 = resistance value
U, V, W, PE	Motor connection terminal	Connect to the motor

DS5C1-21P0/21P5/22P3-PTA

Terminal	Function	Explanation
L1, L2, L3	Main circuit power supply input terminal	Use built-in regenerative resistor
●	Use built-in regenerative resistor	Short connect P+ and D terminal, disconnect P+ and C terminal
P+, D, C	Use external regenerative resistor	Connect the regenerative resistor to P+ and C terminal, and disconnect P+ and D, set P0-25 = power value, P0-26 = resistance value
P+, -	Bus terminal	The real-time voltage of the bus can be measured, please pay attention to the danger
U, V, W	Motor connection terminal	Connect to the motor <small>*Note: The ground wire is on the radiator, please check before powering on</small>
⊕	Grounding terminal	Connect with the motor grounding terminal for grounding treatment

DS5C1-20P7-PTA

Terminal	Function	Explanation
L/N	Main circuit power supply input terminal	Single phase AC200-240V, 50/60Hz
●	Vacant terminal	/
P+, D, C	Use built-in regenerative resistor	Short connect P+ and D terminal, disconnect P+ and C terminal
	Use external regenerative resistor	Connect the regenerative resistor to P+ and C terminal, and disconnect P+ and D, set P0-25 = power value, P0-26 = resistance value
●	Vacant terminal	/
U, V, W, PE	Motor connection terminal	Connect to the motor

DS5C1-41P0/41P5/42P3/43P0-PTA

Terminal	Function	Explanation
R, S, T	Main circuit power supply input terminal	Three phase AC380-440V, 50/60Hz
●	Use built-in regenerative resistor	Short connect P+ and D terminal, disconnect P+ and C terminal
P+, D, C	Use built-in regenerative resistor	Connect the regenerative resistor to P+ and C terminal, and disconnect P+ and D, set P0-25 = power value, P0-26 = resistance value
P+, -	Bus terminal	The real-time voltage of the bus can be measured, please pay attention to the danger
U, V, W	Motor connection terminal	Connect to the motor <small>*Note: The ground wire is on the radiator, please check before powering on</small>
⊕	Grounding terminal	Connect with the motor grounding terminal for grounding treatment

DS5C1-411P0/415P0/422P0/432P0-PTA

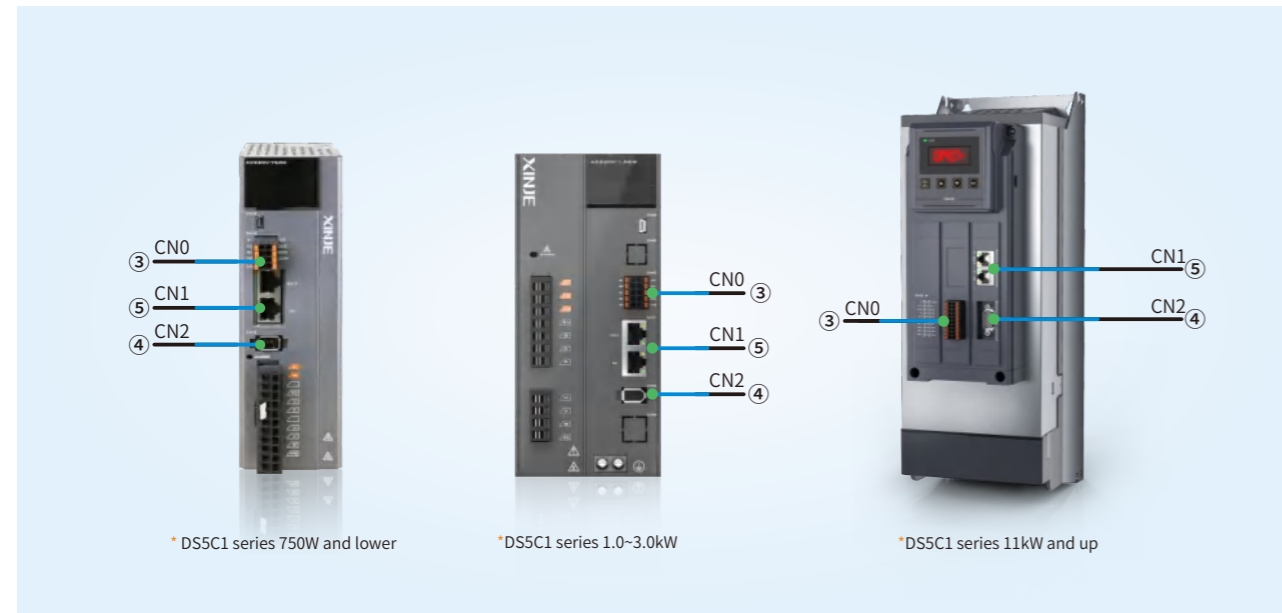
Terminal	Function	Explanation
R, S, T	Main circuit power supply input terminal	Single phase AC380-440V, 50/60Hz
●	Vacant terminal	/
U, V, W	Motor connection terminal	Connect to the motor <small>*Note: The ground wire is on the radiator, please check before powering on</small>
P+, PB	Use external regenerative resistor	Connect the regenerative resistor to P+ and PB terminal, set P0-25 = power value, P0-26 = resistance value
P+, -	Bus terminal	The real-time voltage of the bus can be measured, please pay attention to the danger
PE, PE	Grounding terminal	Only supported by 11, 15kW

② RS-232 port

Pin	Function	Explanation
1	TXD	RS232 send
2	RXD	RS232 receive
3	GND	RS232 signal ground

Terminal definition

DS5C1 series



③ CN0 port

DS5C1 series 750W and lower

Pin	Name
SI1	High speed input terminal 1
SI2	High speed input terminal 2
SI3	High speed input terminal 3
+24V	Input terminal +24V
SO1	Output terminal 1
SO2	Output terminal 2
SO3	Output terminal 3
COM	Output terminal ground

④ CN2 port

Pin	Name
1	5V
2	GND
3	/
4	/
5	485-A
6	485-B

⑤ CN1 port

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

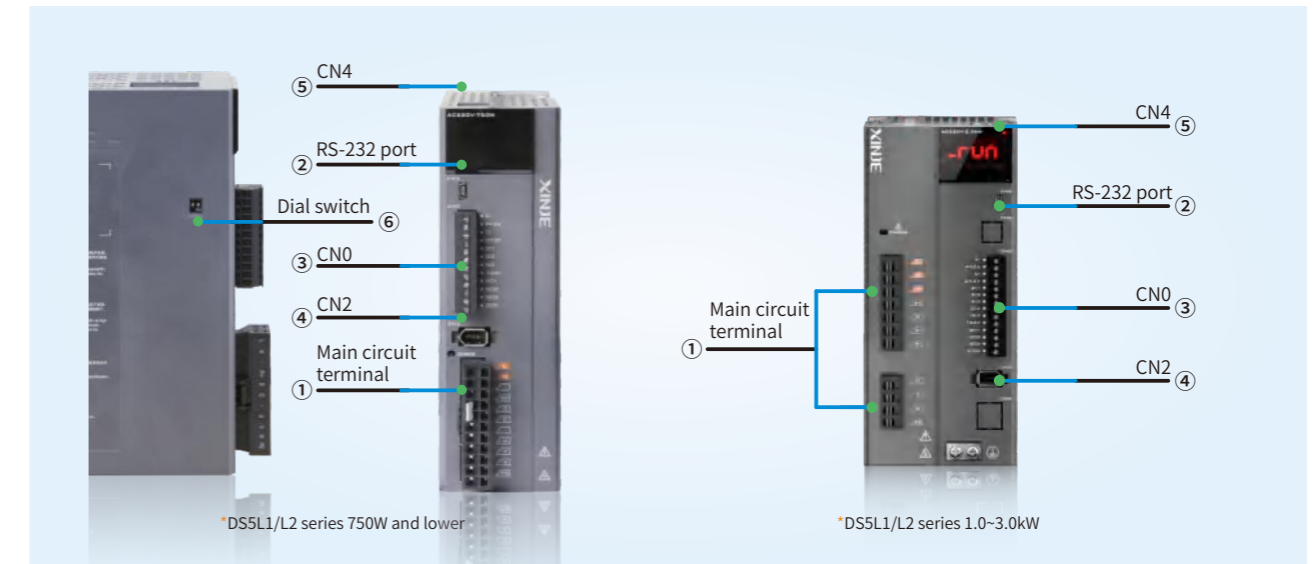
DS5C1 series 1~3kW

Pin	Explanation	Name	Explanation
SI1	Input terminal 1	D+24V	Open collector input
SI2	Input terminal 2	SO1	Output terminal 1
SI3	Input terminal 3	SO2	Output terminal 2
SI4	Input terminal 4 (high speed)	SO3	Output terminal 3
SI5	Input terminal 5 (high speed)	COM	Output terminal ground

DS5C1 series 11kW and up

Name	Explanation	Name	Explanation
P-	Pulse -	+24V	Input common terminal
P+5	Pulse +5V	SI1	Input terminal
P+24	Pulse +24V	SI2	Input terminal
D-	Direction -	SI3	Input terminal
D+5	Direction +5V	SI4	Input terminal (high speed)
D+24	Direction +24V	SI5	Input terminal (high speed)
SO1+	Output terminal +	SO1-	Output terminal -
SO2+	Output terminal +	SO2-	Output terminal -
SO3+	Output terminal +	SO3-	Output terminal -
SO4+	Output terminal +	SO4-	Output terminal -

DS5L1/L2 series



① Main circuit terminal definition

DS5L1/L2-20P1/20P2/20P4-PTA

Terminal	Function	Explanation
L/N	Main circuit power supply input terminal	Single phase AC200~240V, 50/60Hz
●	Vacant terminal	/
P+, C	Use external regenerative resistor	Connect the regeneration resistor to P+ and C terminal, P0-25=power value, P0-26=resistor value
U, V, W, PE	Motor connection terminal	Connect to the motor

DS5L1/L2-20P7-PTA

Terminal	Function	Explanation
L/N	Main circuit power supply input terminal	Single phase AC200~240V, 50/60Hz
●	Vacant terminal	/
P+, D, C	Use built-in regenerative resistor	Short connect P+ and D terminal, disconnect P+ and C terminal
	Use external regenerative resistor	Connect the regenerative resistor to P+ and C terminal, and disconnect P+ and D, set P0-25 = power value, P0-26 = resistance value
●	Vacant terminal	/
U, V, W, PE	Motor connection terminal	Connect to the motor

② RS-232 port

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

④ CN2 port

Pin	Name	Pin	Name
1	5V	4	/
2	GND	5	485-A
3	/	6	485-B

⑤ CN4 - RS485 port

Pin	Name
4	485-A
5	485-B
6	485-GND
Others	Reserved

⑥ Dial switch

Switch1	Switch2	State
ON	ON	Pulse input differential 5V
OFF	OFF	Pulse input collector 24V

*Note: The directions of the two dial switches must be consistent. If they are not consistent, the pulse terminal of the driver will be burned once the power is supplied.

DS5L1-21P0/21P5/22P3/22P6-PTA

Terminal	Function	Explanation
L1, L2, L3	Main circuit power supply input terminal	Single/three phase AC200~240V, 50/60Hz
P+, D, C	Use built-in regenerative resistor	Short connect P+ and D terminal, disconnect P+ and C terminal
	Use external regenerative resistor	Connect the regeneration resistor to P+ and C terminal, disconnect P+ and D, P0-25=power value, P0-26=resistor value
P+, P-	Bus terminal	The real-time voltage of the bus can be measured, please pay attention to the danger
U, V, W	Motor connection terminal	Connection with motor *Note: The ground wire is on the radiator, please check before powering on
⊕	Grounding terminal	Connect with the motor grounding terminal for grounding treatment

DS5L1-41P0/41P5/42P3/43P0-PTA

Terminal	Function	Explanation
R, S, T	Main circuit power supply input terminal	Three phase AC380~440V, 50/60Hz
P+, D, C	Use built-in regenerative resistor	Short connect P+ and D terminal, disconnect P+ and C terminal
	Use built-in regenerative resistor	Connect the regenerative resistor to P+ and C terminal, and disconnect P+ and D, set P0-25 = power value, P0-26 = resistance value
P+, P-	Bus terminal	The real-time voltage of the bus can be measured, please pay attention to the danger
U, V, W	Motor connection terminal	Connect to the motor *Note: The ground wire is on the radiator, please check before powering on
⊕	Grounding terminal	Connect with the motor grounding terminal for grounding treatment

③ CN0 port

DS5L1/L2 series 750W and lower

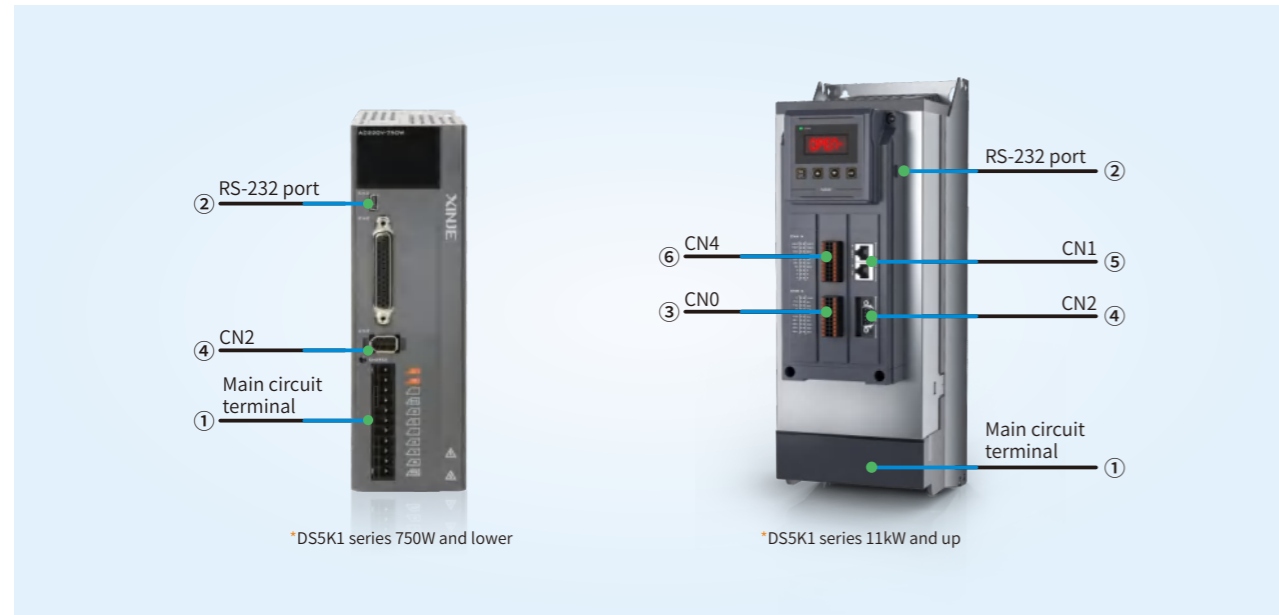
Pin	Name
P-	Pulse input PUL-
P+24	Pulse input external power supply
D-	Direction input DIR-
D+24	Direction input external power supply
SI1	Input terminal 1
SI2	Input terminal 2
SI3	Input terminal 3
+24V	Input terminal +24V
SO1	Output terminal 1
SO2	Output terminal 2
SO3	Output terminal 3
COM	Output terminal ground

DS5L1 above 750W

Pin	Name
P-	Pulse input PUL-
P+24	Open Collector input
D-	Direction input DIR-
D+24	Open collector input
SI1	Input terminal 1
SI2	Input terminal 2
SI3	Input terminal 3
SI4	Input terminal 4
SI5	Input terminal 5
+24V	Input terminal +24V
SO1	Output terminal 1
SO2	Output terminal 2
SO3	Output terminal 3
COM	Output terminal ground

Terminal definition

DS5K1 series



① series 11kW and up

DS5K1-20P1/20P2/20P4-PTA

Terminal	Function	Explanation
L/N	Main circuit power supply input terminal	Single phase AC200~240V, 50/60Hz
●	Vacant terminal	/
P+, C	Use external regenerative resistor	Connect the regeneration resistor to P+ and C terminal, P0-25=power value, P0-26=resistor value
U, V, W, PE	Motor connection terminal	Connect to the motor

DS5K1-20P7-PTA

Terminal	Function	Explanation
L/N	Main circuit power supply input terminal	Single phase AC200~240V, 50/60Hz
●	Vacant terminal	/
P+, D, C	Use built-in regenerative resistor	Short connect P+ and D terminal, disconnect P+ and C terminal
	Use external regenerative resistor	Connect the regenerative resistor to P+ and C terminal, and disconnect P+ and D, set P0-25 = power value, P0-26 = resistance value
●	Vacant terminal	/
U, V, W, PE	Motor connection terminal	Connect with the motor

② RS-232 port

Pin	Name	Explanation
1	TXD	Rs232 send
2	RXD	RS232 receive
3	GND	RS232 signal ground

④ CN2 port

DS5K1 series 750W and lower

Pin	Name
1	5V
2	GND
3	/
4	/
5	485-A
6	485-B

DS5K1 series 11kW and up

Number	Definition
1	PE
2	485-A
3	485-B
4	Temperature
5	Temperature ground
6	5V
7	5V
8	GND
9	GND

DS5K1-411P0/415P0-PTA

Terminal	Function	Explanation
R, S, T	Main circuit power supply input terminal	Single phase AC380~440V, 50/60Hz
●	Vacant terminal	/
U, V, W	Motor connection terminal	Connection with motor <i>*Note:</i> The ground wire is on the radiator, please check before powering on
P+, PB	Use external regenerative resistor	Connect the regeneration resistor to P+ and PB terminal, P0-25=power value, P0-26=resistor value
P+, P-	Bus terminal	The real-time voltage of the bus can be measured, please pay attention to the danger
PE, PE	Grounding terminal	Only 11, 15kW supported

③ CN0 port

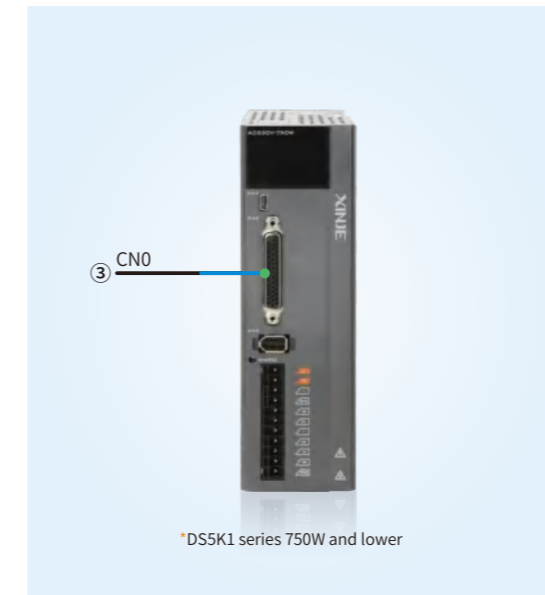
DS5K1 series 11kW and up

Number	Name	Explanation	Number	Name	Explanation
1	P-	Pulse +5V	11	+24V	Input common terminal
2	P+5	Pulse +24V	12	SI1	Input terminal
3	P+24	Direction -	13	SI2	Input terminal
4	D-	Direction +5V	14	SI3	Input terminal
5	D+5	Direction +24V	15	SI4	Input terminal (high speed)
6	D+24	Output terminal +	16	SI5	Input terminal (high speed)
7	SO1+	Output terminal +	17	SO1-	Output terminal -
8	SO2+	Output terminal +	18	SO2-	Output terminal -
9	SO3+	Output terminal +	19	SO3-	Output terminal -
10	SO4+	Output terminal +	20	SO4-	Output terminal -

⑥ CN4 port

Number	Name	Explanation	Number	Name	Explanation
1	VREF+	External speed analog differential input +	11	VREF-	External speed analog differential input -
2	TREF+	External torque analog differential input +	12	TREF-	External torque analog differential input -
3	GND	Analog input ground	13	GND	Analog input ground
4	OA+	Encoder frequency division output OA +	14	OA-	Encoder frequency division output OA -
5	OB+	Encoder frequency division output OB +	15	OB-	Encoder frequency division output OB -
6	OZ+	Encoder frequency division output OZ +	16	OZ-	Encoder frequency division output OZ -
7	OZ	Encoder frequency division output OZ	17	GND	Communication terminal ground
8	/	Vacant terminal	18	/	Vacant terminal
9	/	Vacant terminal	19	/	Vacant terminal
10	/	Vacant terminal	20	/	Vacant terminal

DS5K1 series

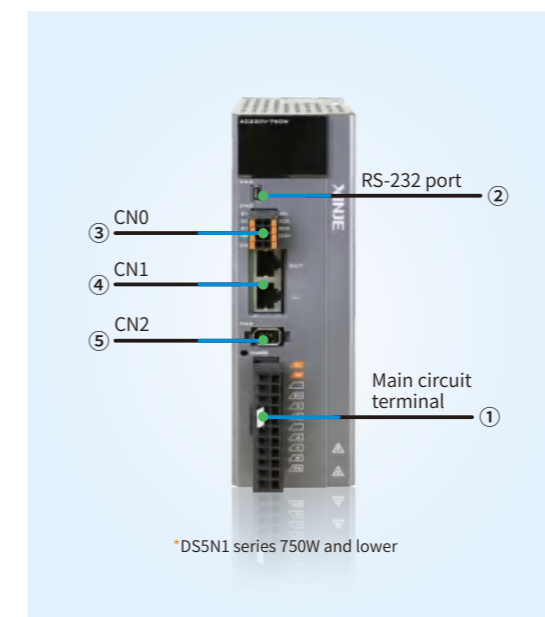


③ CN0 port

DS5K1 series 750W and lower

Number	Name	Explanation	Number	Name	Explanation
1	P-	Pulse -	23	SI4	Input terminal
2	P+5	Pulse +5V	24	SI6	
3	P+24	Pulse +24V	25	SI7	
4	D-	Direction -	26	NC	Vacant
5	D+5	Direction +5V	27	SI8+	High speed SI +
6	D+24	Direction +24V	28	SI8-	High speed SI -
7	SO1+	Output terminal (max load current 50mA)	29	SI5	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+		33	V-REF+	External speed analog differential input +
12	SO5-		34	V-REF-	External speed analog differential input -
13	SO6+		35	OA+	Encoder frequency division output OA +
14	SO6-	Output common terminal	36	OA-	Encoder frequency division output OA -
15	COM		37	OB+	Encoder frequency division output OB +
16	485+	Communication terminal +	38	OB-	Encoder frequency division output OB -
17	485-	Communication terminal -	39	OZ+	Encoder frequency division output OZ +
18	GND	Analog input ground	40	OZ-	Encoder frequency division output OZ -
19	GND	Communication terminal ground	41	OZ	Encoder frequency division output OZ
20	SI1	Input terminal	42	GND	Frequency division output ground
21	SI2		43	NC	Input terminal
22	SI3		44	NC	

DS5N1 series



① Main circuit terminal definition

DS5N1 series 400W and lower

Terminal	Function	Explanation
L/N	Main circuit power supply input terminal	Single phase AC200~240V, 50/60Hz
●	Vacant terminal	/
P+, C	Use external regenerative resistor	Connect the regeneration resistor to P+ and C terminal, P0-25=power value, P0-26=resistor value
U, V, W, PE	Motor connection terminal	Connect to the motor

DS5N1 series 750W

Terminal	Function	Explanation
L/N	Main circuit power supply input terminal	Single phase AC200~240V, 50/60Hz
●	Vacant terminal	/
P+, D, C	Use built-in regenerative resistor	Short connect P+ and D terminal, disconnect P+ and C terminal
	Use external regenerative resistor	Connect the regenerative resistor to P+ and C terminal, and disconnect P+ and D, set P0-25 = power value, P0-26 = resistance value
●	Vacant terminal	/
U, V, W, PE	Motor connection terminal	Connect to the motor

② RS-232 port

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

③ CN0 port

Pin	Name
SI1	High speed input terminal 1
SI2	High speed input terminal 2
SI3	High speed input terminal 3
+24V	Input terminal +24V
SO1	Output terminal 1
SO2	Output terminal 2
SO3	Output terminal 3
COM	Output terminal ground

④ CN1 port

Number	Name	Number	Name
1	CAN_H	9	CAN_H
2	CAN_L	10	CAN_L
3	CAN_GND	11	CAN_GND
4	/	12	/
5	/	13	/
6	/	14	/
7	/	15	/
8	/	16	/

⑤ CN2 port

Pin	Number
1	5V
2	GND
3	/
4	/
5	485-A
6	485-B

Terminal definition

DS5P series

*Take DS5P-20P7-PTA as an example

DS5C series

*Take DS5C-21P5-PTA as an example

DS5L series

*Take DS5L-21P5-PTA as an example

DS5E series

*Take DS5E-20P4-PTA as an example

DS5K series

*Take DS5K-20P4-PTA as an example

DS5F series

*Take DS5F-20P4-PTA as an example

① RS-232 port

Apply to DS5C/DS5E/DS5L/DS5K/DS5F/DS5P series

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

③ CN0 port

Name	Explanation	Name	Explanation
SI1+	High speed SI+	24V	Input common terminal
SI1-	High speed SI-	SO1+	Output terminal
SI2+	High speed SI+	SO1-	Output terminal
SI2-	High speed SI-	SO2+	Output terminal
SI3	Input terminal	SO2-	Output terminal
SI4	Input terminal	SO3+	Output terminal
SI5	Input terminal	SO3-	Output terminal

④ CN1 port

Pin	Definition	Explanation
1	TX+	Explanation
2	TX-	Data send +
3	RX+	Data send -
4	-	-
5	-	-
6	RX-	Data receive -
7	-	-
8	-	-
outer covering	PE	Shield

⑤ CN2 port

Pin	Name
1	5V
2	GND
3	/
4	/
5	485-A
6	485-B

② Main circuit terminal definition

Apply to DS5C/DS5E/DS5L/DS5K/DS5F/DS5P series

Terminal	Function	Explanation
L/N R/S/T	Main circuit power supply input terminal	Single/three phase AC200~240V, 50/60Hz Three phase AC380~440V, 50/60hz
●	Vacant terminal	/
U/V W/PE	Motor connection terminal	Connect to the motor Note: the ground wire is on the radiator, please check before powering on
P+, D, C	Use built-in regenerative resistor	Short connect P+ and D terminal, disconnect P+ and C
	Use external regenerative resistor	Connect the regenerative resistor to P+ and C terminal, disconnect P+ and D, P0-25= power value, P0-26=resistor value

DS5P series

DS5C series

③ CN0 port 1.5kW and up

Name	Explanation	Name	Explanation
P-	Pulse input PUL-	SI4	Input terminal 4
P+24V	Pulse input external power supply	+24V	Input terminal +24V
D-	Direction input DIR-	SO1	Output terminal 1
D+24V	Direction input external power supply	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

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

⑤ CN2 port

Pin	Name
1	5V
2	GND
3	/
4	/
5	485-A
6	485-B

Terminal definition

DS5L series

③ CN0 port

1.5kW and up

Name	Explanation	Name	Explanation
P-	Pulse input PUL-	SI4	Input terminal 4
P+24V	Pulse input external power supply	+24V	Input terminal +24V
D-	Direction input DIR-	SO1	Output terminal 1
D+24V	Direction input external power supply	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

Pin	Name	Explanation
1	NC	Reserved
2		
3		
4		
5		
6		
7		
8		
9		

⑤ CN2 port

Pin	Name
1	5V
2	GND
3	/
4	/
5	485-A
6	485-B

DS5E series

③ CN0 port

750W and lower

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

1.5kW and up

Name	Explanation	Name	Explanation
P-	Pulse input PUL-	SI4	Input terminal 4
P+24V	Pulse input external power supply	+24V	Input terminal +24V
D-	Direction input DIR-	SO1	Output terminal 1
D+24V	Direction input external power supply	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

Pin	Name	Explanation
1	GND	GND-485
2	A1	RS485communication +
3	B1	RS485communication -
4	A2	RS485communication +
5	B2	RS485communication -
6	GND	GND-485
7	NC	Reserved
8		
9		

⑤ CN2 port

7.5kW and lower

Pin	Name
1	5V
2	GND
3	/
4	/
5	485-A
6	485-B

7.5kW and up

Pin	Name
1	Temperature sensor -
2	Temperature sensor +
3	485-B
4	485-A
5	Shield cable
6	GND
7	/
8	5V
9	/

DS5K series

③ CN0 port

Pin	Name	Explanation	Pin	Name	Explanation
1	P-	Pulse input PUL-	23	SI4	Input terminal
2	P+5	Pulse input external power supply +5V	24	NC	Vacant terminal
3	P+24	Pulse input external power supply +24V	25		
4	D-	Direction input DIR-	26		
5	D+5	Direction input external power supply +5V	27		
6	D+24	Direction input external power supply +24V	28	SI5	High speed input terminal
7	SO1	Output terminal	29	+24V	Input terminal +24V
8	SO2		30	NC	Vacant terminal
9	SO3		31		
10	SO4		32		
11	NC	33	OA+		
12		34			
13		35			
14	COM	Output terminal ground	36	OA-	Encoder frequency division output OA-
15	485+	Communication terminal +	37	OB+	Encoder frequency division output OB+
16	485-	Communication terminal -	38	OB-	Encoder frequency division output OB-
17	GND	Communication terminal ground	39	OZ+	Encoder frequency division output OZ+
18	NC	Vacant terminal	40	OZ-	Encoder frequency division output OZ-
19	SI1	Input terminal	41	NC	Vacant terminal
20	SI2		42		
21	SI3		43		
22			44		

④ CN1 port (no function)

⑤ CN2 port

Pin	Name
1	5V
2	GND
3	/
4	/
5	485-A
6	485-B

DS5F series

③ CN0 port

Pin	Name	Explanation	Pin	Name	Explanation
1	P-	Pulse input PUL-	27	SI8	Input terminal
2	P+5	Pulse input external power supply +5V	28	SI9	Input terminal
3	P+24	Pulse input external power supply +24V	29	SI10	High speed input terminal
4	D-	Direction input DIR-	30	+24V	Input terminal +24V
5	D+5	Direction input external power supply +5V	31	T-REF+	External torque analog differential input +
6	D+24	Direction input external power supply +24V	32	T-REF-	External torque analog differential input +
7	SO1	Output terminal	33	V-REF+	External torque analog differential input +
8	SO2		34	V-REF-	External torque analog differential input +
9	SO3		35	OA+	Encoder frequency division output OA+
10	SO4		36	OA-	Encoder frequency division output OA-
11	SO5		37	OB+	Encoder frequency division output OB+
12	SO6		38	OB-	Encoder frequency division output OB-
13	SO7		39	OZ+	Encoder frequency division output OZ+
14	SO8		40	OZ-	Encoder frequency division output OZ-
15	COM		Output terminal ground	41	HPUL+
16	485+	Communication terminal +	42	HPUL-	Line driver high speed pulse -
17	485-	Communication terminal -	43	HDIR+	Line driver high speed direction +
18	GND	Communication terminal ground	44	HDIR-	Line driver high speed direction -
19	GND	Analog input ground			
20	SI1	Input terminal			
21	SI2				
22	SI3				
23	SI4				
24	SI5				
25	SI6				
26	SI7				

④ CN1 port

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

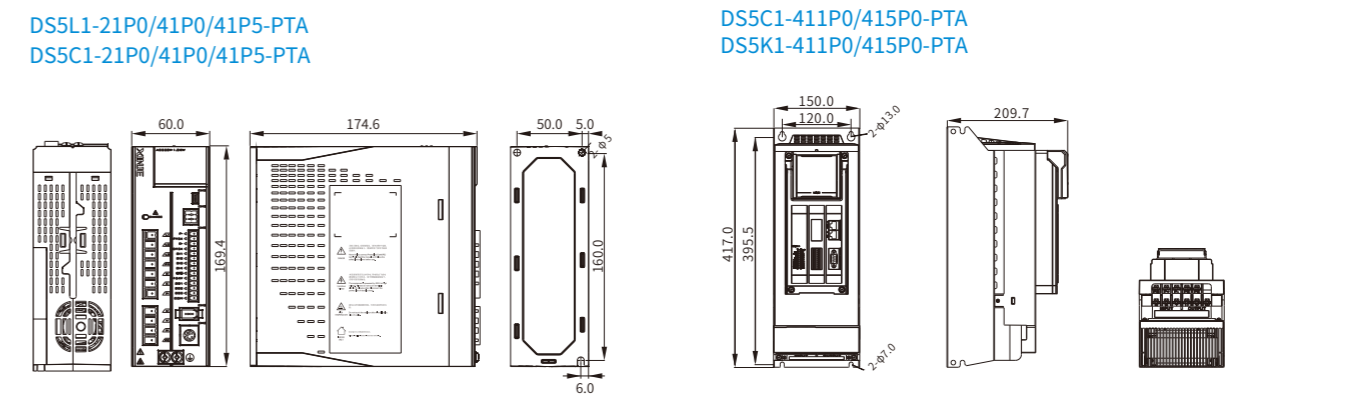
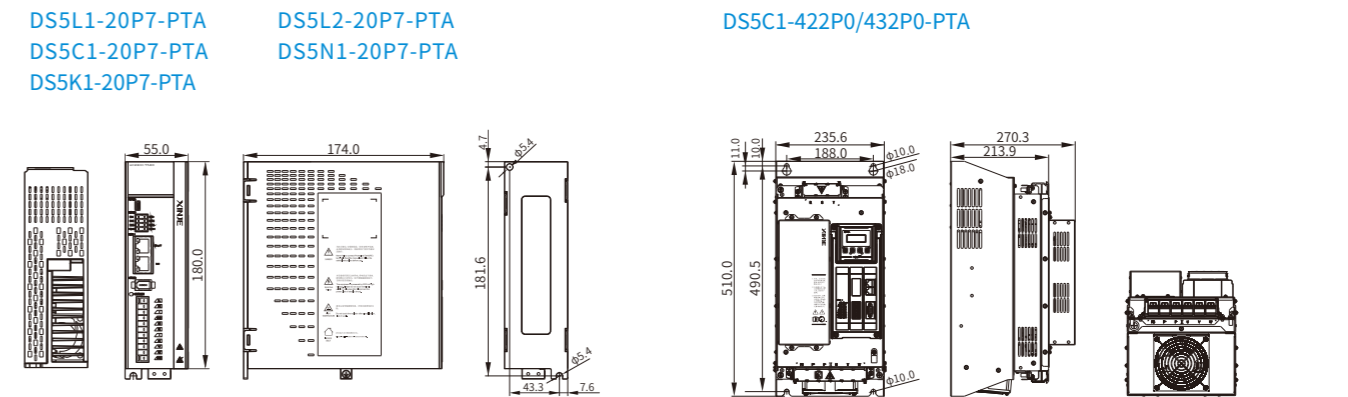
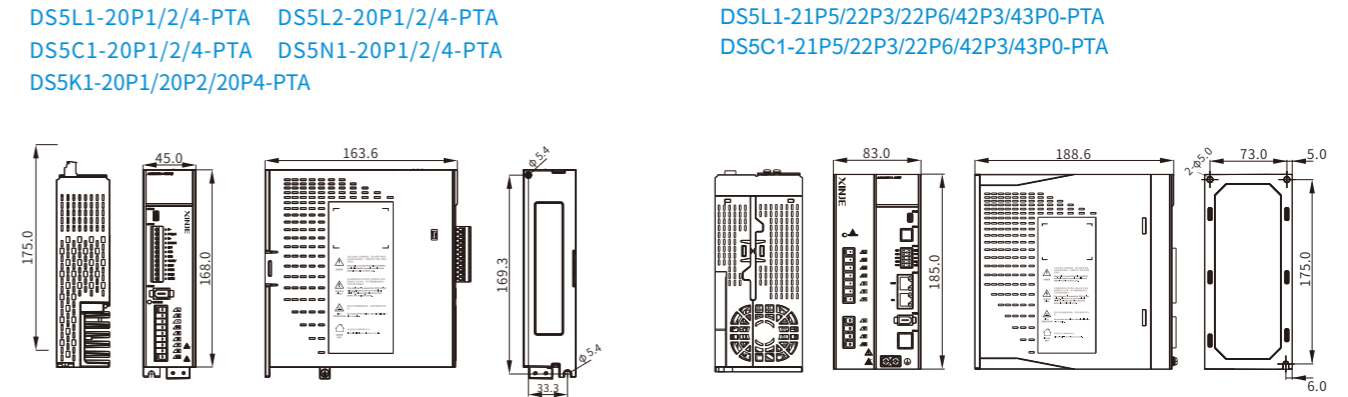
⑤ CN2 port

Pin	Name
1	5V
2	GND
3	/
4	/
5	485-A
6	485-B

Drive specification

Specification	Pulse type		EtherCAT bus type		CANopen bus type	X-NET bus type	Full function type	Standard type		PROFINET bus type		
	DS5L1 series	DS5L series	DS5C1 series	DS5C series	DS5N1 series	DS5E series	DS5F series	DS5K1 series	DS5K series	DS5P series		
Power range (kW)	0.1~3.0	0.1~2.6	0.1~32	0.1~32	0.1~0.75	0.1~22	0.1~7.5	0.75~15	0.1~3.0	0.1~0.75		
Input power supply	Single/three phase AC200~240V, 50/60Hz. Three-phase AC380V~440V, 50/60Hz											
Encoder feedback	17-bit/23-bit communication encoder											
Control mode	Three-phase full wave rectifier IPM, PWM control, sine wave current drive mode											
Use environment	Ambient temperature	Operation: -10°C~40°C (no condensation)/storage: -20°C~60°C (no condensation)										
	Ambient humidity	Operation/storage: 90%RH and below (no condensation)										
	Vibration/shock resistance	4.9m/s ² / 19.6m/s ²										
Function	Electronic CAM	None										
	Protection function	Overvoltage, undervoltage, overheating, overcurrent, overload, overspeed, analog input abnormality, excessive position deviation, output short circuit, encoder abnormality, regeneration abnormality protection, overtravel protection, oscillation protection, phase loss protection, etc										
	Dynamic brake	Apply to above 750W	None	Apply to 1~3kW	None			Apply to 750W	None			
	Communication function	RS232: standard ModbusRTU protocol RS485: standard ModbusRTU protocol	RS232: standard ModbusRTU protocol	RS232: standard ModbusRTU protocol EtherCAT: support EtherCAT bus communication (max 32 axes)	RS232: standard ModbusRTU protocol CANopen: support CANopen bus communication (max 64 axes)	RS232: standard ModbusRTU protocol RS485: standard ModbusRTU protocol Support X-NET bus communication (max 20 axes)	RS232: standard ModbusRTU protocol RS485: standard ModbusRTU protocol		RS232: standard ModbusRTU protocol PROFINET: support PROFINET bus communication (max 64 axes)			
	Brake resistor	Built-in brake resistor, external brake resistor can be connected										
Display and operate	5-bit LED indicator light, power indicator light, 4 buttons											
Position output	Output form	No		ABZ differential feedback output				No				
	Frequency division function	No		Yes				No				
	Collector Z phase output	Yes										
I/O signal	Analog input	No		2 channels input				No				
	Digital input (SI)	3 channels (750W and below) 5 channels (above 750W)	3 channels (750W and below) 4 channels (above 750W)	3 channels (750W and below) 5 channels (above 750W)	3 channels (750W and below) 4 channels (above 750W)	3 channels	3 channels (750W and below) 4 channels (above 750W)	10 channels	8 channels (below 11kW) 5 channels (above 11kW)	5 channels		
	Servo enable, alarm clear, no forward rotation, no reverse rotation, torque limit selection, internal speed selection, gear ratio switching, mode switching, pulse input prohibition, zero speed locking, position deviation clear, internal position step change signal, internal control mode direction switching											
Digital output (SO)	3 channels	3 channels (750W and below) 4 channels (above 750W)	3 channels	3 channels (below 11kW) 4 channels (above 11kW)	3 channels	3 channels (750W and below) 4 channels (above 750W)	8 channels	6 channels (below 11kW) 4 channels (above 11kW)	4 channels	3 channels		
Positioning completion, servo ready, alarm output, torque limit output, same speed detection, rotation detection, speed arrival, brake release output and warning output												
Position control mode	Max input pulse frequency	Collector open: 200kpps (5C1/5N1 not support pulse)					Collector open: 200kpps [Optocoupler] Differential input: 500kpps [Optocoupler] Long line reception: 2Mpps [only DS5F series support]			Not support		
	Pulse command mode	3.3V~5V/18~24V pulse+direction, AB phase pulse, CW/CCW signal	18~24V pulse+direction, AB phase pulse, CW/CCW signal (5C cannot support CW/CCW, 5C1/5N1 not support external pulse)				3.3V~5V/18~24V pulse+direction, AB phase pulse, CW/CCW signal					Not support
	Control mode	External pulse/built-in position	Built-in position/EtherCAT motion bus	External pulse/built-in position/EtherCAT motion bus	Built-in position/CANopen motion bus	External pulse/built-in position/X-NET motion bus	External pulse/built-in position			PROFINET motion bus		
Feedforward compensation	0~100% (set the resolution to 1%)											
Positioning complete width	1~65535 command unit (set the resolution to 1 command unit)											
Electronic gear ratio	1/10000 ≤ B/A ≤ 10000											
Control mode	Analog speed control (only DS5F support), internal three segments of speed, external speed mode											
Command smoothing mode	Low pass filter, smooth filter											
Speed control mode	Analog input	No		-10V~+10V (resolution 12-bit)				No				
	Voltage range	No		72KΩ				No				
	Input impedance	Internal parameter		Internal parameter/external analog				Internal parameter				
Torque limit	Internal parameter											
Speed change rate	External load rated change 0~100%: below ±0.01% (at rated speed)											
	Rated voltage ±10%: 0.01% (at rated speed)											
	Ambient temperature 20±25°C: below ±0.01% (at rated speed)											
Torque control mode	Control mode	Analog speed control (only DS5F support), internal torque										
	Analog input	No		-10V~+10V (resolution 12-bit)				No				
	Input impedance	No		72KΩ				No				
Speed limit	Internal parameter											
Bus control mode	Control axis number	No	32 axes	64 axes	20 axes	No			64			
	Communication protocol	No	EtherCAT protocol	CANopen protocol	X-NET protocol	No			profinetprotocol			

Drive dimension diagram (Unit: mm)



Brake specification

Motor	MS series					MS6 series									
	220 flange	110 flange	130 flange	180 flange 19/27	180 flange 35/48	40 flange		60 flange		80 flange		100 flange	130 flange	180 flange	
Brake parameter															
Static friction torque(N·m)	≥115	≥8	≥15	≥30	≥50	≥0.32	≥0.32	≥1.3	≥1.3	≥2.5	≥3.2	≥8	≥15	≥58	
Rated power[W]	55	14.4	25	31	51	6.1	6.1	7.2	7.4	8	11.5	17.6	25	30	
Attraction time[ms]	<200	<80	<100	<110	<110	<35	≤50	<50	≤50	<80	≤60	<100	<100	<180	
Release time[ms]	<80	<40	<60	<80	<80	<20	≤40	<20	≤30	<40	≤30	<50	<60	<80	
Excitation currentDC[A]	2.3	0.6	1	1.3	2.1	0.25	0.32	0.3	0.308	0.233	0.48	0.73	1	1.25	
Attraction voltageDC[V]	<19.2	<16.8	<16.8	<18	<19	<16.8	≤16.8	<18	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	
Release voltageDC[V]	>1.5	>1.5	>1.5	>4	>5	>1.5	≥1	>1.5	>1	>1	>1	>1	>1.5	>1.5	
Excitation voltageDC[V]	DC24±10%														

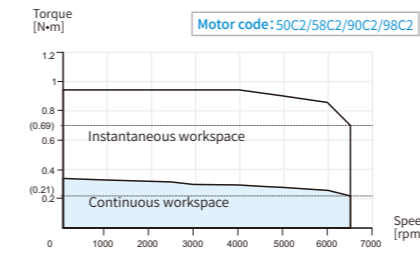
*Note: 04/05 below flange indicates the motor torque.

MS motor axial and radial force specification

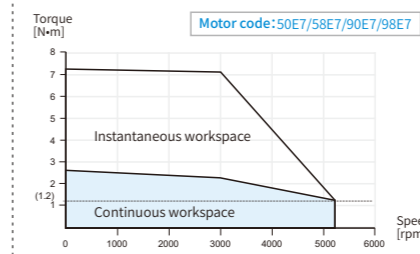
Base number (mm)	40 flange	60 flange	80 flange	100 flange	110 flange	130 flange	180 flange	220 flange
Axial force (N)	57	74	147	≤200	250	300	400	≤500
Radial force (N)	78	245	392	500	500	600	800	1000

MS6 series T/N curve

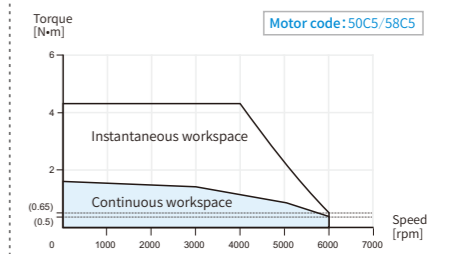
MS6H-40CS/CM/TL30B(Z)3-20P1



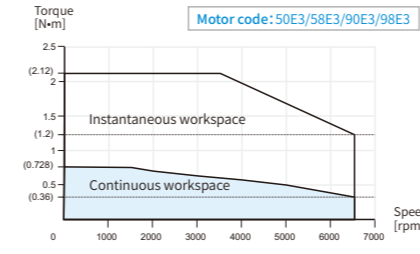
MS6H-80CS/CM/TL30B(Z)3-20P7



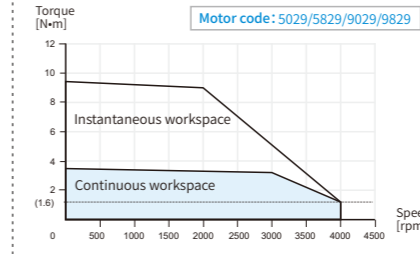
MS6H-60CS/CM30B(Z)□-20P4



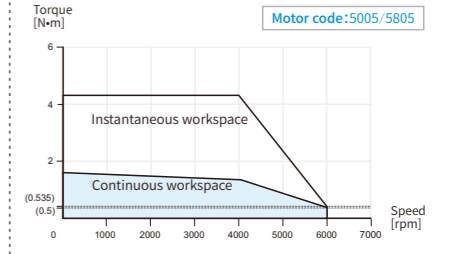
MS6H-60CS/CM/TL30B(Z)3-20P2



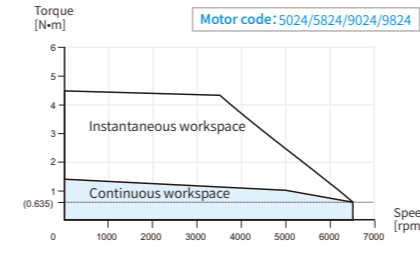
MS6S-80CS/CM/TL30B(Z)3-21P0



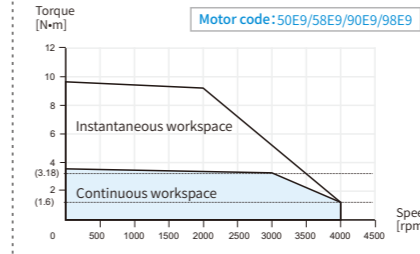
MS6S-60CS/CM30B(Z)□-20P4



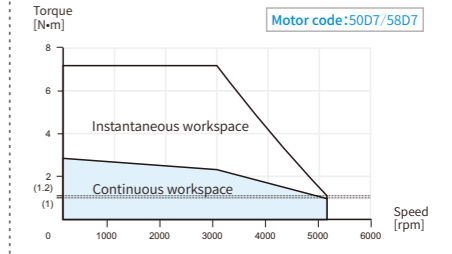
MS6S-60CS/CM/TL30B(Z)3-20P4



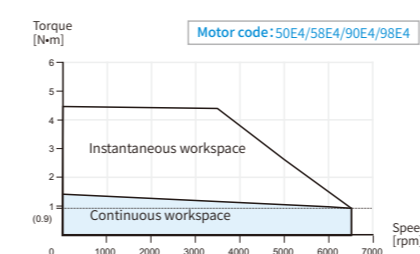
MS6H-80CS/CM/TL30B(Z)3-21P0



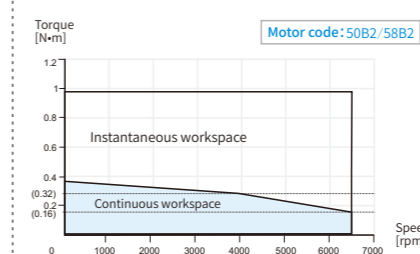
MS6H-80CS/CM30B(Z)□-20P7



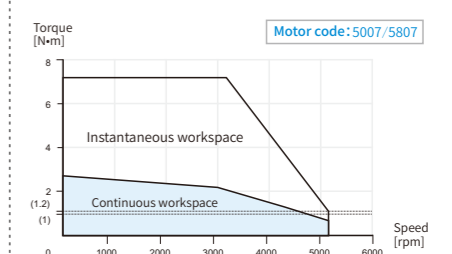
MS6H-60CS/CM/TL30B(Z)3-20P4



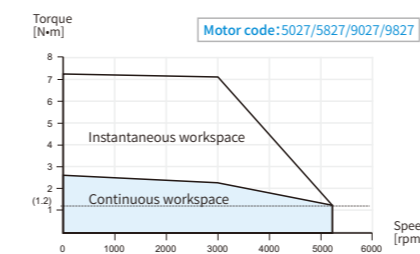
MS6H-40CS/CM30B1-20P1
MS6H-40CS/CM30BZ1-20P1



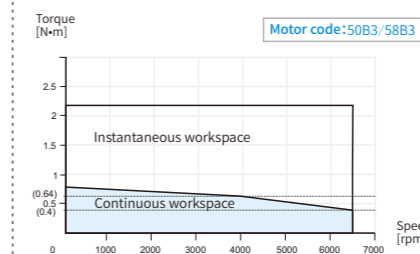
MS6S-80CS/CM30B(Z)□-20P7



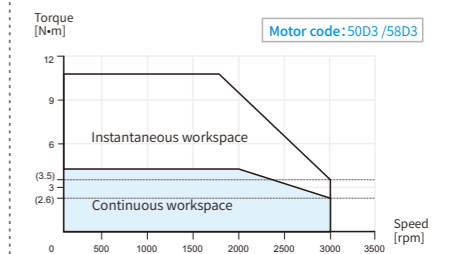
MS6S-80CS/CM/TL30B(Z)3-20P7



MS6H-60CS/CM30B1-20P2
MS6H-60CS/CM30BZ1-20P2

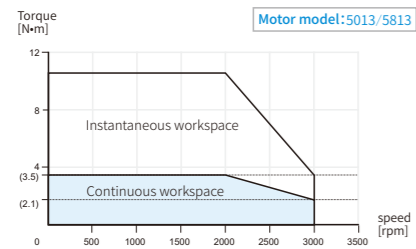


MS6H-80CS/CM20B□-20P7

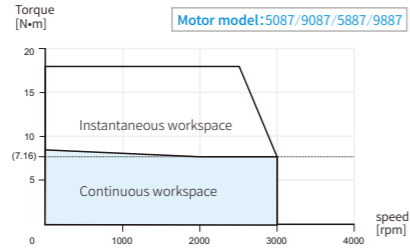


MS5 series T/N curve

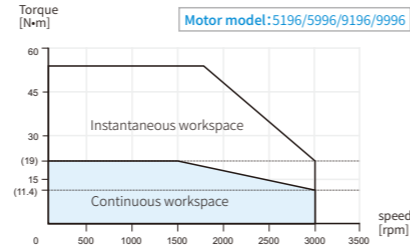
MS6S-80CS/CM20B(Z)□-20P7



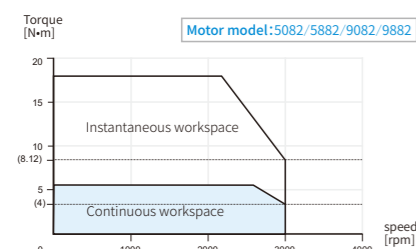
MS6H-130CS/CM20B(Z)2-21P5
MS6H-130TL20B(Z)2-21P5



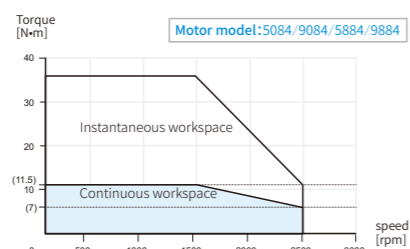
MS6H-180CS/CM15B(Z)2-43P0
MS6H-180TL15B(Z)2-43P0



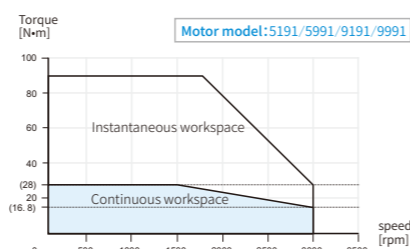
MS6H-130CS/CM15B(Z)2-20P8
MS6H-130TL15B(Z)2-20P8



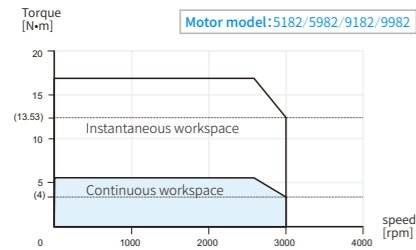
MS6H-130CS/CM15B(Z)2-21P8
MS6H-130TL15B(Z)2-21P8



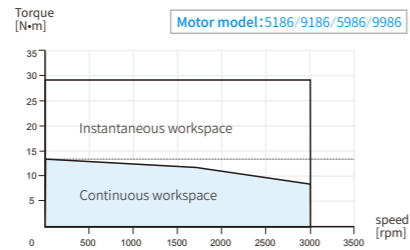
MS6H-180CS/CM15B2-44P4
MS6H-180TL15B2-44P4



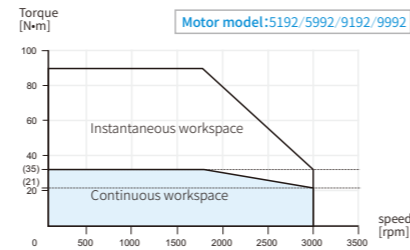
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MS6H-130TL15B(Z)2-40P8



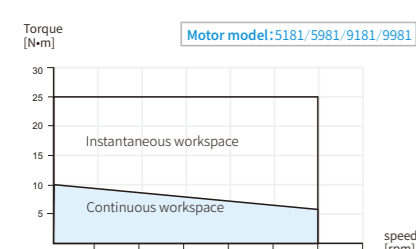
MS6H-130CS15B(Z)2-41P8
MS6H-130TL15B(Z)2-41P8



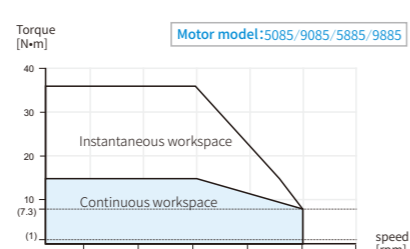
MS6H-180CS/CM15B(Z)2-45P5
MS6H-180TL15B(Z)2-45P5



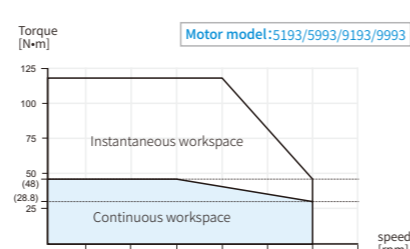
MS6H-130CS/CM15B(Z)2-41P3
MS6H-130TL15B(Z)2-41P3



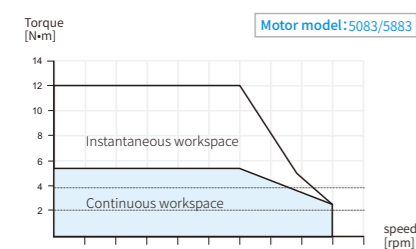
MS6H-130CS/CM15B(Z)2-22P3
MS6H-130TL15B(Z)2-22P3



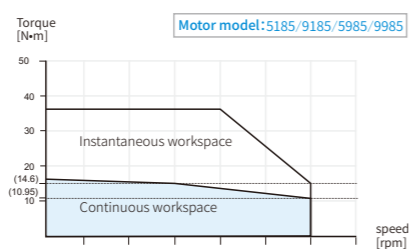
MS6H-180CS/CM15B(Z)2-47P5
MS6H-180TL15B(Z)2-47P5



MS6S-100CS/CM30B(Z)2-21P5

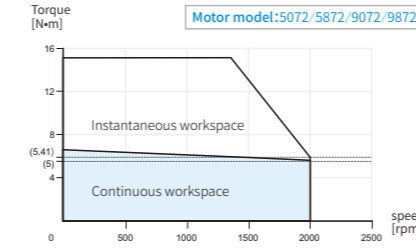


MS6H-130CS/CM15B(Z)2-42P3
MS6H-130TL15B(Z)2-42P3

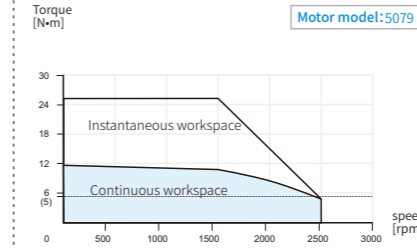


MS series T/N curve

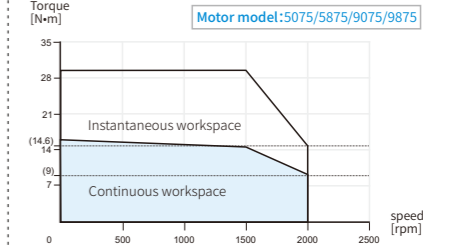
MS5G-130STE-CS/CM05415B/BZ-20P8-S01
MS5G-130STE-TL05415B/BZ-20P8-S01



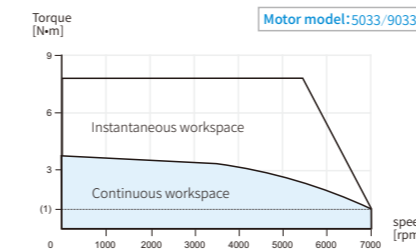
MS5G-130STE-CS/CM10015B-21P5-S01



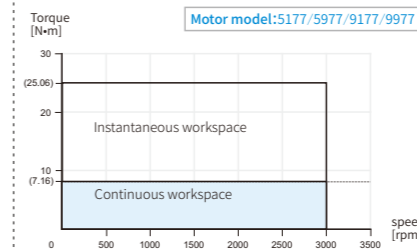
MS5G-130STE-CS/CM14615B/BZ-22P3-S01
MS5G-130STE-TL14615B/BZ-22P3-S01



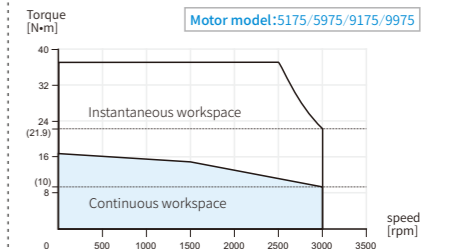
MS5S-110STE-CS/CM03230B/BZ-21P0-S01
MS5S-110STE-TL03230B/BZ-21P0-S01



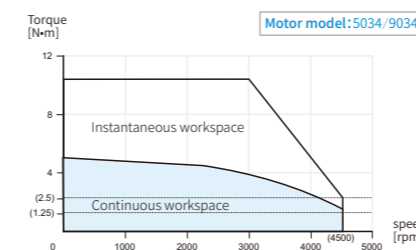
MS5G-130STE-CS/CM07220B/BZ-41P5-S01
MS5G-130STE-TL07220B/BZ-41P5-S01



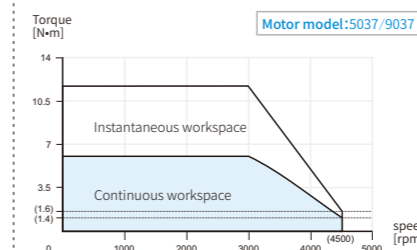
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MS5G-130STE-TL14615B/BZ-42P3-S01



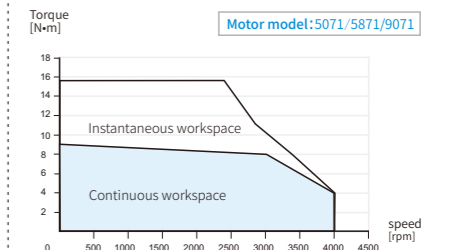
MS5S-110STE-CS/CM04830B/BZ-21P5
MS5S-110STE-TL04830B/BZ-21P5



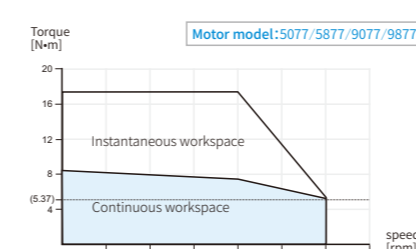
MS5S-110STE-CS/CM06030B/BZ-21P8
MS5S-110STE-TL06030B/BZ-21P8



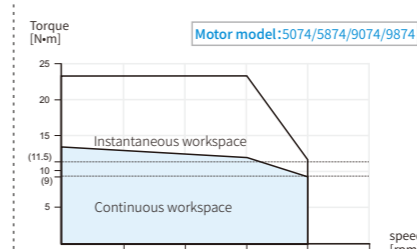
MS5G-130STE-CS/CM07730B(Z)-22P4-S01
MS5G-130STE-TL07730B(Z)-22P4-S01



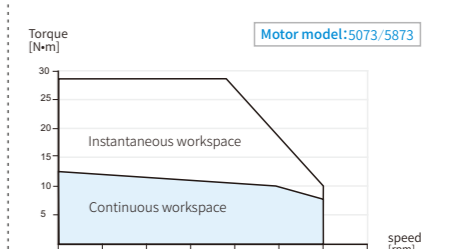
MS5G-130STE-CS/CM07220B/BZ-21P5-S01
MS5G-130STE-TL07220B/BZ-21P5-S01



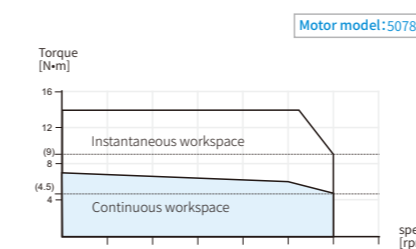
MS5G-130STE-CS/CM11515B/BZ-21P8-S01
MS5G-130STE-TL11515B/BZ-21P8-S01



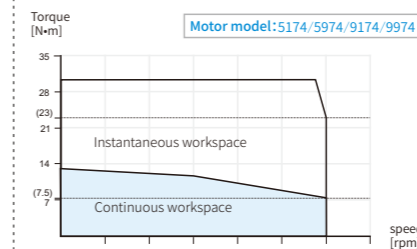
MS5G-130STE-CS/CM10025B(Z)-22P6-S01



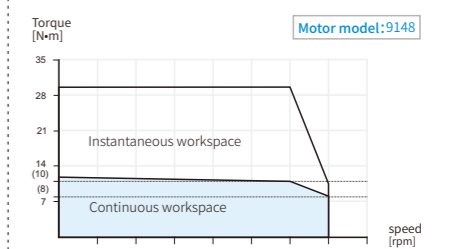
MS5G-130STE-CS/CM06025B-21P5-S01



MS5G-130STE-CS/CM11515B/BZ-41P8-S01
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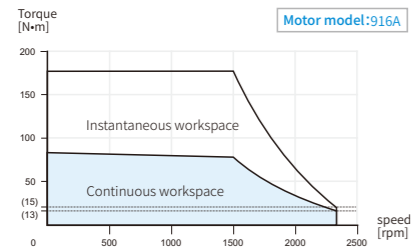


MS-130STL10030B/BZ-43P0

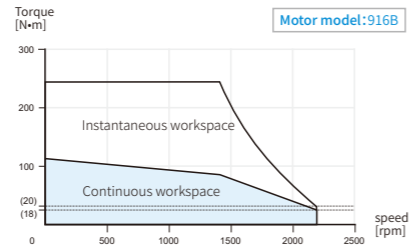


MS series T/N curve

MS-220STE-TL70015B/BZ-411P0-XJ



MS-220STE-TL96015B/BZ-415P0-XJ

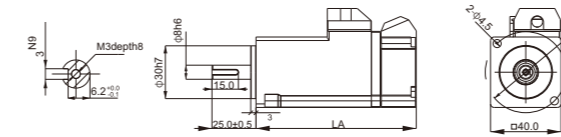


Motor dimension (Unit: mm)

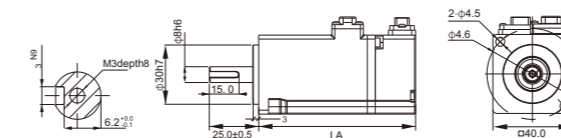
MS6 series

40 flange

Motor model	LA±1		Inertia level
	Normal	With brake	
MS6H-40C□30B□1-20P1	91	122.9	High inertia

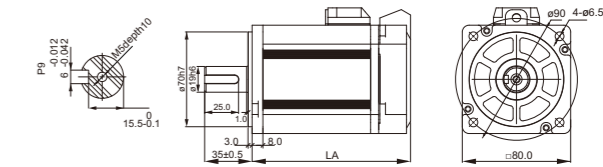


Motor model	LA±1		Inertia level
	Normal	With brake	
MS6H-40□□30B□3-20P1	79.4	112	High inertia

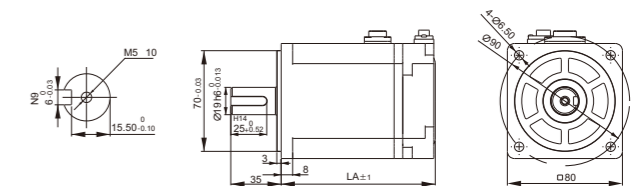


80 flange

Motor model	LA±1		Inertia level
	Normal	With brake	
MS6S-80C□30B□1/2-20P7	117	150	Low inertia
MS6H-80C□30B□1/2-20P7	124	157	High inertia
MS6S-80C□20B□1/2-20P7	127	160	Low inertia
MS6H-80C□20B□1/2-20P7	149	182	High inertia

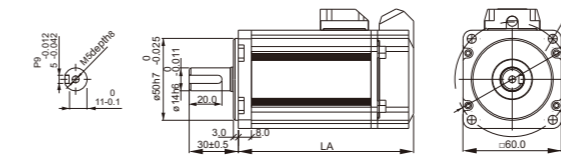


Motor model	LA±1		Inertia level
	Normal	With brake	
MS6S-80□□30B□3-20P7	107.1	132.1	Low inertia
MS6H-80□□30B□3-20P7	107.1	132.1	High inertia
MS6S-80□□30B□3-21P0	117.6	142.6	Low inertia
MS6H-80□□30B□3-21P0	134	159	High inertia

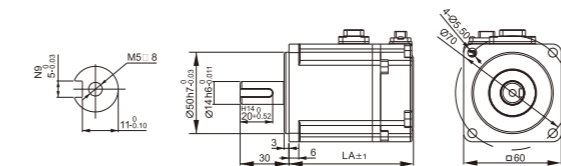


60 flange

Motor model	LA±1		Inertia level
	Normal	With brake	
MS6H-60C□30B□1-20P2	90	121	High inertia
MS6S-60C□30B□1/2-20P4	107	139	Low inertia
MS6H-60C□30B□1/2-20P4	119	151	High inertia

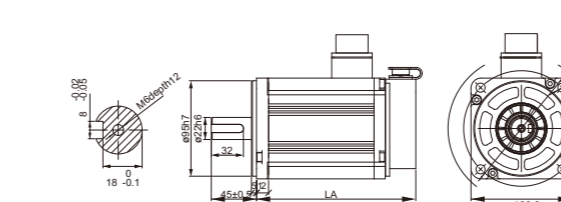


Motor model	LA±1		Inertia level
	Normal	With brake	
MS6H-60□□30B□3-20P2	76.4	99.15	High inertia
MS6S-60□□30B□3-20P4	98.4	121.15	Low inertia
MS6H-60□□30B□3-20P4	98.4	121.15	High inertia



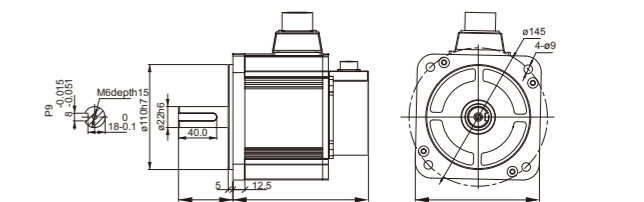
100 flange

Motor model	LA±1		Inertia level
	Normal	With brake	
MS6S-100□30B2-21P5	154.5	183	Low inertia



130 flange

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

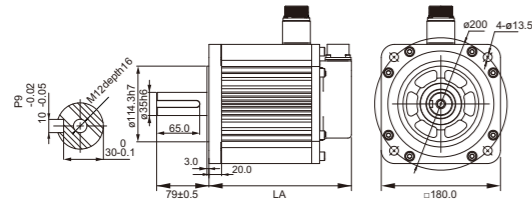


Motor dimension (Unit: mm)

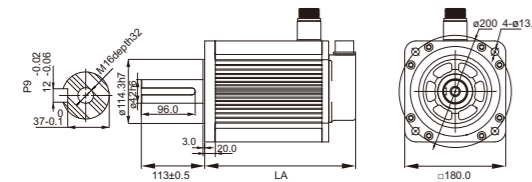
| MS6 series

180 flange

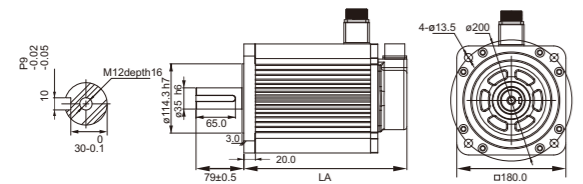
Motor model	LA±1		Inertia level
	Normal	With brake	
MS6H-180C□15B2-43P0	215	255	High inertia
MS6H-180TL15B2-43P0	215	255	
MS6H-180C□15B2-44P4	247	287	
MS6H-180TL15B2-44P4	247	287	



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



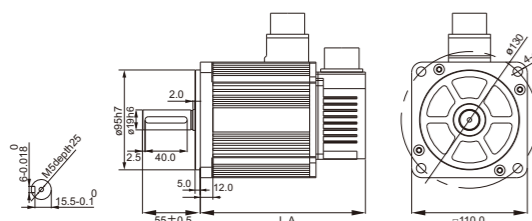
Motor model	LA±1		Inertia level
	Normal	With brake	
MS6H-180C□15E2-45P5	269	309	High inertia
MS6H-180C□15E2-47P5	325	365	



| MS5/MS series

110 flange

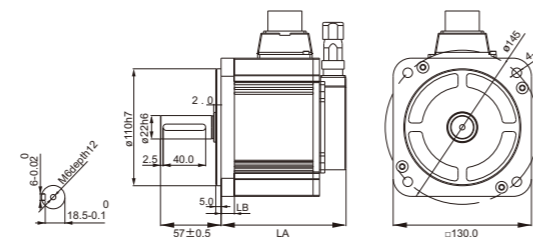
Motor model	LA±1		Inertia level
	Normal	With brake	
MS5S-110STE-C□03230B□-21P0-S01	157	205	Low inertia
MS5S-110STE-C□04830B□-21P5-S01	166	214	
MS5S-110STE-C□06030B□-21P8-S01	181	229	
MS5S-110STE-TL03230B□-21P0-S01	157	205	
MS5S-110STE-TL04830B□-21P5-S01	166	214	



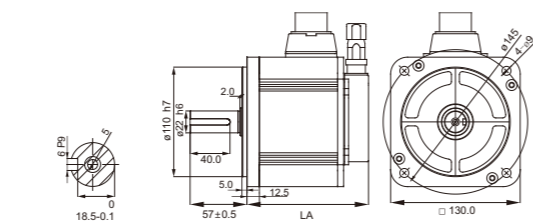
| MS5/MS series

130 flange

Motor model	LA±1		LB	Inertia level
	Normal	With brake		
MS5G-130STE-C□05415B□-20P8-S01	117.5	147.5	12.5	Medium inertia
MS5G-130STE-C□07220B□-21P5-S01	133.5	163.5		
MS5G-130STE-C□07220B□-41P5-S01	133.5	163.5		
MS5G-130STE-C□11515B□-21P8-S01	159.5	189.5		
MS5G-130STE-C□11515B□-41P8-S01	159.5	189.5		
MS5G-130STE-C□14615B□-22P3-S01	133.5	210.5		
MS5G-130STE-C□14615B□-42P3-S01	133.5	210.5		
MS5G-130STE-C□07730B□-22P4-S01	132.5	163.5		
MS5G-130STE-C□10025B□-22P6-S01	159.5	189.5		
MS5G-130STE-TL05415B□-20P8-S01	134.5	164.5		
MS5G-130STE-TL07220B□-21P5-S01	149.5	179.5		
MS5G-130STE-TL07220B□-41P5-S01	149.5	179.5		
MS5G-130STE-TL11515B□-21P8-S01	176.5	206.5		
MS5G-130STE-TL11515B□-41P8-S01	176.5	206.5		
MS5G-130STE-TL14615B□-22P3-S01	197.5	227.5		
MS5G-130STE-TL14615B□-42P3-S01	197.5	227.5		
MS5G-130STE-TL07730B□-22P4-S01	149.5	179.5		

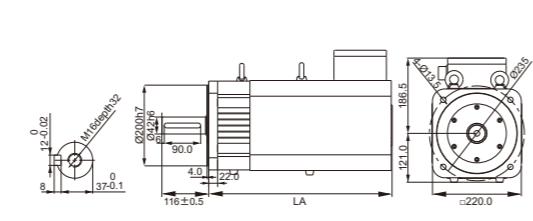


Motor model	LA±1		Inertia level
	Normal	With brake	
MS5G-130STE-C□06025B-21P5-S01	123.5	153.5	Medium inertia
MS5G-130STE-C□10015B-21P5-S01	146.5	176.5	



220 flange

Motor model	LA±1		Inertia level
	Normal	With brake	
MS-220STE-TL70015B□-411P0-XJ	454	549	-
MS-220STE-TL96015B□-415P0-XJ	507	602	



Model selection list

| MS6 series

DS5 series match MS6-B3 series motor										
80 flange and below connector type motors										
Power [kW]	Inertia level	Motor model	Matched driver	Voltage level	Front outgoing cable		Rear outgoing cable		Transfer cable	
					Encoder cable	Power cable	Encoder cable	Power cable	Only support front outgoing cable	
0.1	High inertia	MS6H-40CS30B3-20P1	DS5L1/C1/N1/K1-20P1-PTA DS5E/F/K/P-20P1-PTA	AC 220V	CP(T)-SE-Length	CM(T)-E03A-Length	CP(T)-SF-M-Length	CM(T)-F03A-Length	CPT-PE	
		MS6H-40CM30B3-20P1			CP(T)-SE-BM-Length	CM(T)-E03A-Length	CP(T)-SF-BM-Length	CM(T)-F03A-Length	CMT-PE03	
		MS6H-40CS30BZ3-20P1			CP(T)-SE-Length	CMB(T)-E03A-Length	CP(T)-SF-M-Length	CMB(T)-F03A-Length	CPT-PE	
MS6H-40CM30BZ3-20P1	CP(T)-SE-BM-Length	CMB(T)-E03A-Length	CP(T)-SF-BM-Length		CMB(T)-F03A-Length	CMT-PE03				
0.2	High inertia	MS6H-60CS30B3-20P2	DS5L1/C1/N1/K1-20P2-PTA DS5E/E/K/P-20P2-PTA		CP(T)-SE-M-Length	CM(T)-E05A-Length	CP(T)-SF-M-Length	CM(T)-F05A-Length	CPT-PE	
		MS6H-60CM30B3-20P2			CP(T)-SE-BM-Length	CM(T)-E05A-Length	CP(T)-SF-BM-Length	CM(T)-F05A-Length	CMT-PE05	
		MS6H-60CS30BZ3-20P2			CP(T)-SE-Length	CMB(T)-E05A-Length	CP(T)-SF-M-Length	CMB(T)-F05A-Length	CPT-PE	
0.4	Low inertia	MS6H-60CM30BZ3-20P2	DS5L1/C1/N1/K1-20P4-PTA DS5E/F/K/P-20P4-PTA		CP(T)-SE-BM-Length	CMB(T)-E05A-Length	CP(T)-SF-BM-Length	CMB(T)-F05A-Length	CMT-PE05	
		MS6H-60CS30B3-20P4			CP(T)-SE-Length	CM(T)-E05A-Length	CP(T)-SF-M-Length	CM(T)-F05A-Length	CPT-PE	
		MS6H-60CM30B3-20P4			CP(T)-SE-BM-Length	CMB(T)-E05A-Length	CP(T)-SF-BM-Length	CMB(T)-F05A-Length	CMT-PE05	
0.75	High inertia	MS6H-60CS30BZ3-20P4			DS5L1/C1/N1/K1-20P7-PTA DS5E/F/K/P-20P7-PTA	CP(T)-SE-Length	CMB(T)-E05A-Length	CP(T)-SF-M-Length	CMB(T)-F05A-Length	CPT-PE
		MS6H-60CM30B3-20P4				CP(T)-SE-BM-Length	CMB(T)-E05A-Length	CP(T)-SF-BM-Length	CMB(T)-F05A-Length	CMT-PE05
		MS6H-60CS30B3-20P4		CP(T)-SE-Length		CMB(T)-E05A-Length	CP(T)-SF-M-Length	CMB(T)-F05A-Length	CPT-PE	
1	Low inertia	MS6H-60CM30B3-20P7		DS5L1/C1/N1/K1-20P7-PTA DS5E/F/K/P-20P7-PTA		CP(T)-SE-BM-Length	CMB(T)-E05A-Length	CP(T)-SF-BM-Length	CMB(T)-F05A-Length	CMT-PE05
		MS6H-60CS30B3-20P7				CP(T)-SE-Length	CMB(T)-E05A-Length	CP(T)-SF-M-Length	CMB(T)-F05A-Length	CPT-PE
		MS6H-60CM30B3-20P7				CP(T)-SE-BM-Length	CMB(T)-E05A-Length	CP(T)-SF-BM-Length	CMB(T)-F05A-Length	CMT-PE05
High inertia	MS6H-60CS30BZ3-21P0	CP(T)-SE-Length				CMB(T)-E05A-Length	CP(T)-SF-M-Length	CMB(T)-F05A-Length	CPT-PE	
	MS6H-60CM30B3-21P0	CP(T)-SE-BM-Length				CMB(T)-E05A-Length	CP(T)-SF-BM-Length	CMB(T)-F05A-Length	CMT-PE05	
	MS6H-60CM30B3-21P0	CP(T)-SE-Length				CMB(T)-E05A-Length	CP(T)-SF-M-Length	CMB(T)-F05A-Length	CPT-PE	
MS6H-60CM30B3-21P0	CP(T)-SE-BM-Length	CMB(T)-E05A-Length	CP(T)-SF-BM-Length			CMB(T)-F05A-Length	CMT-PE05			

- *Note: 1. Please select one between front outgoing cable and rear outgoing cable.
 2. The connection cable please select one between CMT and CMBT, non-brake model please select CMT, brake model please select CMBT.
 3. CPT-SCT-M-length cable, T of CPT refers to high flexible encoder cable, and T of SCT refers to encoder aviation plug with threaded hole.
 4. After the adapter cable is equipped, the power cable and encoder cable of the corresponding B1 motor shall be purchased.
 5. Oil resistant cable CPG-SE-M/BM-length, CMG-E03A-length, CMG-E05A-length are optional for front outgoing cable.

Model selection list

MS6 series

DS5L,5C,5E,5K,5F,5P matched MS6-B1/B2 motor										
Power(kw)	Inertia level	Motor model	Matched driver	Voltage level	Encoder cable	Power cable	Brake cable	Cable accessories package		
0.1	High inertia	MS6H-40CS30B1-20P1	DS5E/F/K/P-20P1-PTA	AC 220V	CP(T)-SP-Length	CM(T)-P07-M-Length	/	JAM-P9-P4		
		MS6H-40CM30B1-20P1			CP(T)-SP-BM-Length	CM(T)-P07-M-Length	/	JAM-P9-P4		
		MS6H-40CS30BZ1-20P1			CP(T)-SP-M-Length	CM(T)-P07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
0.2	High inertia	MS6H-60CS30B1-20P2	DS5E/F/K/P-20P2-PTA		CP(T)-SP-BM-Length	CM(T)-P07-M-Length	/	JAM-P9-P4		
		MS6H-60CM30B1-20P2			CP(T)-SP-M-Length	CM(T)-P07-M-Length	/	JAM-P9-P4		
		MS6H-60CS30BZ1-20P2			CP(T)-SP-BM-Length	CM(T)-P07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
0.4	Low inertia	MS6S-60CS30B1-20P4	DS5E/F/K/P-20P4-PTA		CP(T)-SP-M-Length	CM(T)-P07-M-Length	/	JAM-P9-P4		
		MS6S-60CM30B1-20P4			CP(T)-SP-BM-Length	CM(T)-P07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
		MS6S-60CS30BZ1-20P4			CP(T)-SP-M-Length	CM(T)-P07-M-Length	/	JAM-P9-P4		
	High inertia	MS6H-60CS30B1-20P4			CP(T)-SP-BM-Length	CM(T)-P07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
		MS6H-60CM30B1-20P4			CP(T)-SP-M-Length	CM(T)-P07-M-Length	/	JAM-P9-P4		
		MS6H-60CS30BZ1-20P4			CP(T)-SP-BM-Length	CM(T)-P07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
0.75	Low inertia	MS6S-80CS20B1-20P7	DS5E/F/K/P-20P7-PTA		CP(T)-SP-M-Length	CM(T)-P07-M-Length	/	JAM-P9-P4		
		MS6S-80CM20B1-20P7			CP(T)-SP-BM-Length	CM(T)-P07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
		MS6S-80CS20BZ1-20P7			CP(T)-SP-M-Length	CM(T)-P07-M-Length	/	JAM-P9-P4		
		MS6S-80CM20BZ1-20P7			CP(T)-SP-BM-Length	CM(T)-P07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
		High inertia			MS6H-80CS20B1-20P7	CP(T)-SP-M-Length	CM(T)-P07-M-Length	/	JAM-P9-P4	
					MS6H-80CM20B1-20P7	CP(T)-SP-BM-Length	CM(T)-P07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2	
	MS6H-80CS20BZ1-20P7			CP(T)-SP-M-Length	CM(T)-P07-M-Length	/	JAM-P9-P4			
	MS6H-80CM20BZ1-20P7			CP(T)-SP-BM-Length	CM(T)-P07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2			
	0.85			High inertia	MS6H-130CS15B2-20P8	DS5L/E/C/K/F-21P0-PTA	CP(T)-SC(T)(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4
					MS6H-130CM15B2-20P8		CP(T)-SC(T)(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4
		MS6H-130CS15BZ2-20P8			CP(T)-SC(T)(T)-M-Length		CM(T)-L15-Length	/	JAM-C10-L7	
		MS6H-130CM15BZ2-20P8			CP(T)-SC(T)(T)-B-Length		CM(T)-L15-Length	/	JAM-C10-L7	
MS6H-130TL15B2-20P8		CP(T)-SC(T)(T)-M-Length	CM(T)-L15-Length		/		JAM-C10-L4			
MS6H-130TL15BZ2-20P8		CP(T)-SC(T)(T)-B-Length	CM(T)-L15-Length		/		JAM-C10-L4			
0.85	High inertia	MS6H-130TL15B2-20P8	DS5E/C/F-41P0-PTA	CP(T)-SC(T)(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130TL15BZ2-20P8		CP(T)-SC(T)(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130CS15B2-40P8		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L7			
		MS6H-130CM15BZ2-40P8		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L7			
		MS6H-130TL15B2-40P8		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130TL15BZ2-40P8		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4			
1.3	High inertia	MS6H-130CS15B2-41P3	DS5E/K/F-41P5-PTA	CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130CM15B2-41P3		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130CS15BZ2-41P3		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L7			
		MS6H-130CM15BZ2-41P3		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L7			
		MS6H-130TL15B2-41P3		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130TL15BZ2-41P3		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4			
1.5	Low inertia	MS6S-100CS30B2-21P5	DS5E/L/C/F/K-21P5-PTA	CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6S-100CM30B2-21P5		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6S-100CS30BZ2-21P5		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L7			
	High inertia	MS6H-130CS20B2-21P5		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L7			
		MS6H-130CM20B2-21P5		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130CS20BZ2-21P5		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4			
1.8	High inertia	MS6H-130TL20B2-21P5	DS5E/F/K-22P6-PTA	CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L7			
		MS6H-130TL20BZ2-21P5		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130CS15B2-21P8		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130CM15B2-21P8		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130CS15BZ2-21P8		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L7			
		MS6H-130CM15BZ2-21P8		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L7			
1.8	High inertia	MS6H-130TL15B2-41P8	DS5E/K/F-41P5-PTA	CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130TL15BZ2-41P8		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130CS15B2-41P8		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L7			
		MS6H-130CM15B2-41P8		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L7			
		MS6H-130CS15BZ2-41P8		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4			
		MS6H-130TL15BZ2-41P8		CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4			

DS5L,5C,5E,5K,5F,5P matched MS6-B1/B2 motor										
Power(kw)	Inertia level	Motor model	Matched driver	Voltage level	Encoder cable	Power cable	Brake cable	Cable accessories package		
2.3	High inertia	MS6H-130CS15B2-22P3	DS5E/F/K-22P6-PTA	AC 220V	CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4	PLC	
		MS6H-130CM15B2-22P3			CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4	HMI	
		MS6H-130CS15BZ2-22P3			CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L7	Integrated control	
		MS6H-130TL15B2-22P3			CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4	Industrial informatization	
		MS6H-130TL15BZ2-22P3			CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L7	Servo system	
		MS6H-130TL15BZ2-22P3			CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L7	Frequency inverter	
	High inertia	MS6H-130CS15B2-42P3	DS5E/C/F/K-43P0-PTA		CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L4	Stepping system	Vision system
		MS6H-130CM15B2-42P3			CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4		
		MS6H-130CS15BZ2-42P3			CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L7		
		MS6H-130TL15B2-42P3			CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L4		
		MS6H-130TL15BZ2-42P3			CP(T)-SC(T)-M-Length	CM(T)-L15-Length	/	JAM-C10-L7		
		MS6H-130TL15BZ2-42P3			CP(T)-SC(T)-B-Length	CM(T)-L15-Length	/	JAM-C10-L7		
3.0	High inertia	MS6H-180CS15B2-43P0	DS5E/C/F-43P0-PTA-H	CP(T)-SL-M-Length	CM(T)-XL25-Length	/	JAM-L15-XL4			
		MS6H-180CM15B2-43P0		CP(T)-SL-B-Length	CM(T)-XL25-Length	/	JAM-L15-XL4			
		MS6H-180CS15BZ2-43P0		CP(T)-SL-M-Length	CM(T)-XL25-Length	/	JAM-L15-XL6			
		MS6H-180TL15B2-43P0		CP(T)-SL-B-Length	CM(T)-XL25-Length	/	JAM-L15-XL4			
		MS6H-180TL15BZ2-43P0		CP(T)-SL-M-Length	CM(T)-XL25-Length	/	JAM-L15-XL6			
		MS6H-180TL15BZ2-43P0		CP(T)-SL-B-Length	CM(T)-XL25-Length	/	JAM-L15-XL4			
4.4	High inertia	MS6H-180CS15B2-44P4	DS5E/C/F-45P5-PTA-H	CP(T)-SL-M-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
		MS6H-180CM15B2-44P4		CP(T)-SL-B-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
		MS6H-180CS15BZ2-44P4		CP(T)-SL-M-Length	CM(T)-XL60-Length	/	JAM-L15-XL6			
		MS6H-180TL15B2-44P4		CP(T)-SL-B-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
		MS6H-180TL15BZ2-44P4		CP(T)-SL-M-Length	CM(T)-XL60-Length	/	JAM-L15-XL6			
		MS6H-180TL15BZ2-44P4		CP(T)-SL-B-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
5.5	High inertia	MS6H-180CS15B2-45P5	DS5E/C/F-45P5-PTA-H	CP(T)-SL-M-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
		MS6H-180CM15B2-45P5		CP(T)-SL-B-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
		MS6H-180CS15BZ2-45P5		CP(T)-SL-M-Length	CM(T)-XL60-Length	/	JAM-L15-XL6			
		MS6H-180TL15B2-45P5		CP(T)-SL-B-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
		MS6H-180TL15BZ2-45P5		CP(T)-SL-M-Length	CM(T)-XL60-Length	/	JAM-L15-XL6			
		MS6H-180TL15BZ2-45P5		CP(T)-SL-B-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
7.5	High inertia	MS6H-180CS15B2-47P5	DS5E/C/F-47P5-PTA-H	CP(T)-SL-M-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
		MS6H-180CM15B2-47P5		CP(T)-SL-B-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
		MS6H-180CS15BZ2-47P5		CP(T)-SL-M-Length	CM(T)-XL60-Length	/	JAM-L15-XL6			
		MS6H-180TL15B2-47P5		CP(T)-SL-B-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
		MS6H-180TL15BZ2-47P5		CP(T)-SL-M-Length	CM(T)-XL60-Length	/	JAM-L15-XL6			
		MS6H-180TL15BZ2-47P5		CP(T)-SL-B-Length	CM(T)-XL60-Length	/	JAM-L15-XL4			
80 flange and lower small aviation plug matching list										
0.4	Low inertia	MS6S-60CS30B2-20P4	DS5E/F/K/P-20P4-PTA	AC 220V	CP(T)-SV-M-Length	CMT-V07-M-Length	/	JAM-V7-V4	Vision system	
		MS6S-60CM30B2-20P4			CP(T)-SV-BM-Length	CMT-V07-M-Length	/	JAM-V7-V4		
		MS6S-60CS30BZ2-20P4			CP(T)-SV-M-Length	CMT-V07-M-Length	/	JAM-V7-V6		
	High inertia	MS6H-60CS30B2-20P4			CP(T)-SV-BM-Length	CMT-V07-M-Length	/	JAM-V7-V4		
		MS6H-60CM30B2-20P4			CP(T)-SV-M-Length	CMT-V07-M-Length	/	JAM-V7-V6		
		MS6H-60CS30BZ2-20P4			CP(T)-SV-BM-Length	CMT-V07-M-Length	/	JAM-V7-V4		
0.75	Low inertia	MS6S-80CS20B2-20P7	DS5E/F/K/P-20P7-PTA		CP(T)-SV-M-Length	CMT-V07-M-Length	/	JAM-V7-V4		
		MS6S-80CM20B2-20P7			CP(T)-SV-BM-Length	CMT-V07-M-Length	/	JAM-V7-V4		
		MS6S-80CS20BZ2-20P7			CP(T)-SV-M-Length	CMT-V07-M-Length	/	JAM-V7-V6		
	High inertia	MS6H-80CS20B2-20P7			CP(T)-SV-BM-Length	CMT-V07-M-Length	/	JAM-V7-V4		
		MS6H-80CM20B2-20P7			CP(T)-SV-M-Length	CMT-V07-M-Length	/	JAM-V7-V6		
		MS6H-80CS20BZ2-20P7			CP(T)-SV-BM-Length	CMT-V07-M-Length	/	JAM-V7-V4		

Model selection list

MS6 series

DS5L,5C,5E,5K,5F,5P matched MS6-B1/B2 motor										
Power[kW]	Inertia level	Motor model	Matched driver	Voltage level	Encoder cable	Power cable	Brake cable	Cable accessories package		
0.1	High inertia	MS6H-40CS30B1-20P1	DS5L1/C1/N1/K1-20P1-PTA	AC 220V	CP(T)-SP-M-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4		
		MS6H-40CM30B1-20P1			CP(T)-SP-BM-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4		
		MS6H-40CS30BZ1-20P1			CP(T)-SP-M-Length	CM(T)-P07A-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
0.2	High inertia	MS6H-60CS30B1-20P2	DS5L1/C1/N1/K1-20P2-PTA		CP(T)-SP-BM-Length	CM(T)-P07A-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
		MS6H-60CM30B1-20P2			CP(T)-SP-M-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4		
		MS6H-60CS30BZ1-20P2			CP(T)-SP-BM-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4		
0.4	Low inertia	MS6S-60CS30B1-20P4	DS5L1/C1/N1/K1-20P4-PTA		CP(T)-SP-M-Length	CM(T)-P07A-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
		MS6S-60CM30B1-20P4			CP(T)-SP-BM-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4		
		MS6S-60CS30BZ1-20P4			CP(T)-SP-M-Length	CM(T)-P07A-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
	High inertia	MS6H-60CS30B1-20P4			CP(T)-SP-M-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4		
		MS6H-60CM30B1-20P4			CP(T)-SP-BM-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4		
		MS6H-60CS30BZ1-20P4			CP(T)-SP-M-Length	CM(T)-P07A-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2		
0.75	Low inertia	MS6S-80CS20B1-20P7	DS5L1/C1/N1/K1-20P7-PTA	CP(T)-SP-BM-Length	CM(T)-P07A-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2			
		MS6S-80CM20B1-20P7		CP(T)-SP-M-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4			
		MS6S-80CS20BZ1-20P7		CP(T)-SP-BM-Length	CM(T)-P07A-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2			
		MS6S-80CM20BZ1-20P7		CP(T)-SP-M-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4			
		MS6S-80CS30B1-20P7		CP(T)-SP-BM-Length	CM(T)-P07A-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2			
		MS6S-80CM30B1-20P7		CP(T)-SP-M-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4			
	High inertia	MS6H-80CS30B1-20P7		CP(T)-SP-BM-Length	CM(T)-P07A-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2			
		MS6H-80CM30B1-20P7		CP(T)-SP-M-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4			
		MS6H-80CS30BZ1-20P7		CP(T)-SP-BM-Length	CM(T)-P07A-M-Length	CB(T)-P03-Length	JAM-P9-P4-P2			
		MS6H-80CM30BZ1-20P7		CP(T)-SP-M-Length	CM(T)-P07A-M-Length	/	JAM-P9-P4			
		MS6H-80CS30B2-20P8		CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130CM15B2-20P8		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
0.85	High inertia	MS6H-130CS15B2-20P8	DS5L1/C1-21P0-PTA	CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130CM15B2-20P8		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130CS15BZ2-20P8		CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
		MS6H-130CM15BZ2-20P8		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
		MS6H-130TL15B2-20P8		CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130TL15BZ2-20P8		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
	High inertia	MS6H-130CS15B2-40P8	DS5L1/C1-41P0-PTA	CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130CM15B2-40P8		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
		MS6H-130CS15BZ2-40P8		CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130CM15BZ2-40P8		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
		MS6H-130TL15B2-40P8		CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130TL15BZ2-40P8		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
1.3	High inertia	MS6H-130CS15B2-41P3	DS5L1/C1-41P5-PTA	CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130CM15B2-41P3		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
		MS6H-130CS15BZ2-41P3		CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130CM15BZ2-41P3		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
		MS6H-130TL15B2-41P3		CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130TL15BZ2-41P3		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
1.5	Low inertia	MS6S-100CS30B2-21P5	DS5L1/C1-21P5-PTA	CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6S-100CM30B2-21P5		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
		MS6S-100CS30BZ2-21P5		CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6S-100CM30BZ2-21P5		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
		High inertia		MS6H-130CS20B2-21P5	CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4		
				MS6H-130CM20B2-21P5	CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7		
	MS6H-130CS20BZ2-21P5			CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
	MS6H-130CM20BZ2-21P5			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
	MS6H-130TL20B2-21P5			CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
	MS6H-130TL20BZ2-21P5			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
	1.8	High inertia		MS6H-130CS15B2-21P8	DS5L1/C1-22P6-PTA	CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4	
				MS6H-130CM15B2-21P8		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7	
MS6H-130CS15BZ2-21P8			CP(T)-SC(T)-M-Length	CM(T)-L15B-Length		/	JAM-C10-L4			
MS6H-130CM15BZ2-21P8			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length		/	JAM-C10-L7			
MS6H-130TL15B2-21P8			CP(T)-SC(T)-M-Length	CM(T)-L15B-Length		/	JAM-C10-L4			
MS6H-130TL15BZ2-21P8			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length		/	JAM-C10-L7			
High inertia		MS6H-130CS15B2-41P8	DS5L1/C1-42P3-PTA	CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130CM15B2-41P8		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
		MS6H-130CS15BZ2-41P8		CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130CM15BZ2-41P8		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			
		MS6H-130TL15B2-41P8		CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4			
		MS6H-130TL15BZ2-41P8		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7			

DS5L,5C,5E,5K,5F,5P matched MS6-B1/B2 motor									
Power[kW]	Inertia level	Motor model	Matched driver	Voltage level	Encoder cable	Power cable	Brake cable	Cable accessories package	
2.3	High inertia	MS6H-130CS15B2-22P3	DS5L1/C1-22P6-PTA	AC 220V	CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4	
		MS6H-130CM15B2-22P3			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L4	
		MS6H-130CS15BZ2-22P3			CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L7	
		MS6H-130CM15BZ2-22P3			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7	
		MS6H-130TL15B2-22P3			CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4	
		MS6H-130TL15BZ2-22P3			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7	
3.0	High inertia	MS6H-180CS15B2-43P0	DS5L1/C1-43P0-PTA		CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4	
		MS6H-180CM15B2-43P0			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L4	
		MS6H-180CS15BZ2-43P0			CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L7	
		MS6H-180CM15BZ2-43P0			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7	
		MS6H-180TL15B2-43P0			CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	/	JAM-C10-L4	
		MS6H-180TL15BZ2-43P0			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	/	JAM-C10-L7	

80 flange and lower small aviation plug matching list									
Power[kW]	Inertia level	Motor model	Matched driver	Voltage level	Encoder cable	Power cable	Brake cable	Cable accessories package	
0.4	Low inertia	MS6S-60CS30B2-20P4	DS5L1/C1/N1/K1-20P4-PTA	AC 220V	CP(T)-SV-M-Length	CMT-V07A-M-Length	/	JAM-V7-V4	
		MS6S-60CM30B2-20P4			CP(T)-SV-BM-Length	CMT-V07A-M-Length	/	JAM-V7-V4	
		MS6S-60CS30BZ2-20P4			CP(T)-SV-M-Length	CMT-V07A-M-Length	/	JAM-V7-V6	
	MS6S-60CM30BZ2-20P4	CP(T)-SV-BM-Length			CMT-V07A-M-Length	/	JAM-V7-V6		
	High inertia	MS6H-60CS30B2-20P4			CP(T)-SV-M-Length	CMT-V07A-M-Length	/	JAM-V7-V4	
		MS6H-60CM30B2-20P4			CP(T)-SV-BM-Length	CMT-V07A-M-Length	/	JAM-V7-V4	
MS6H-60CS30BZ2-20P4		CP(T)-SV-M-Length	CMT-V07A-M-Length		/	JAM-V7-V6			
0.75	Low inertia	MS6S-80CS20B2-20P7	DS5L1/C1/N1/K1-20P7-PTA		CP(T)-SV-M-Length	CMT-V07A-M-Length	/	JAM-V7-V4	
		MS6S-80CM20B2-20P7			CP(T)-SV-BM-Length	CMT-V07A-M-Length	/	JAM-V7-V4	
		MS6S-80CS20BZ2-20P7			CP(T)-SV-M-Length	CMT-V07A-M-Length	/	JAM-V7-V6	
		MS6S-80CM20BZ2-20P7			CP(T)-SV-BM-Length	CMT-V07A-M-Length	/	JAM-V7-V6	
		High inertia			MS6H-80CS20B2-20P7	CP(T)-SV-M-Length	CMT-V07A-M-Length	/	JAM-V7-V4
				MS6H-80CM20B2-20P7	CP(T)-SV-BM-Length	CMT-V07A-M-Length	/	JAM-V7-V4	
	MS6H-80CS20BZ2-20P7			CP(T)-SV-M-Length	CMT-V07A-M-Length	/	JAM-V7-V6		
	MS6H-80CM20BZ2-20P7			CP(T)-SV-BM-Length	CMT-V07A-M-Length	/	JAM-V7-V6		
	MS6H-80CS30B2-20P7			CP(T)-SV-M-Length	CMT-V07A-M-Length	/	JAM-V7-V4		
	MS6H-80CM30B2-20P7			CP(T)-SV-BM-Length	CMT-V07A-M-Length	/	JAM-V7-V4		

Model selection list

MS5/MS series

DS5L1,5C1,5N1,5K1									
Power(kw)	Inertia level	Motor model	Matched driver	Voltage level	Encoder cable	Power cable	Cable accessories package		
1.5	Medium inertia	MS5G-130STE-CS07220B-41P5-S01	DS5L1/C1-41P5-PTA	Single/three phase 380V	CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	JAM-C10-L4		
		MS5G-130STE-CM07220B-41P5-S01			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	JAM-C10-L4		
		MS5G-130STE-CS07220BZ-41P5-S01			CP(T)-SC(T)-M-Length	CMB(T)-L15B-Length	JAM-C10-L7		
		MS5G-130STE-CM07220BZ-41P5-S01			CP(T)-SC(T)-B-Length	CMB(T)-L15B-Length	JAM-C10-L7		
		MS5G-130STE-TL07220B-41P5-S01			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	JAM-C10-L4		
MS5G-130STE-TL07220BZ-41P5-S01		CP(T)-SC(T)-B-Length	CMB(T)-L15B-Length		JAM-C10-L7				
1.8		Medium inertia	MS5G-130STE-CS11515B-41P8-S01		DS5L1/C1-42P3-PTA	CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	JAM-C10-L4	
			MS5G-130STE-CM11515B-41P8-S01			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	JAM-C10-L4	
			MS5G-130STE-CS11515BZ-41P8-S01			CP(T)-SC(T)-M-Length	CMB(T)-L15B-Length	JAM-C10-L7	
			MS5G-130STE-CM11515BZ-41P8-S01			CP(T)-SC(T)-B-Length	CMB(T)-L15B-Length	JAM-C10-L7	
			MS5G-130STE-TL11515B-41P8-S01			CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	JAM-C10-L4	
MS5G-130STE-TL11515BZ-41P8-S01			CP(T)-SC(T)-B-Length		CMB(T)-L15B-Length	JAM-C10-L7			
2.3			Medium inertia		MS5G-130ST-CS14615B-42P3-S01	DS5L1/C1-42P3-PTA	CP(T)-SC(T)-M-Length	CM(T)-L15B-Length	JAM-C10-L4
					MS5G-130ST-CM14615B-42P3-S01		CP(T)-SC(T)-B-Length	CM(T)-L15B-Length	JAM-C10-L4
					MS5G-130ST-CS14615BZ-42P3-S01		CP(T)-SC(T)-M-Length	CMB(T)-L15B-Length	JAM-C10-L7
	MS5G-130ST-CM14615BZ-42P3-S01			CP(T)-SC(T)-B-Length	CMB(T)-L15B-Length		JAM-C10-L7		
	MS5G-130ST-TL14615B-42P3-S01	CP(T)-SC(T)-B-Length		CM(T)-L15B-Length	JAM-C10-L4				
MS5G-130ST-TL14615BZ-42P3-S01	CP(T)-SC(T)-B-Length	CMB(T)-L15B-Length		JAM-C10-L7					
3	/	MS-130ST-TL10030B(Z)-43P0		DS5L1/C1-43P0-PTA		CP(T)-SL-B-Length	CM(T)-L15B-Length	JAM-L15-L4	
11	/	MS-220STE-TL70015B□-411P0-XJ		DS5C1/K1-411P0-PTA		CPT-ZDL-B-Length	CM(T)-D60-Length	/	
15	/	MS-220STE-TL96015B□-415P0-XJ		DS5C1/K1-415P0-PTA		CPT-ZDL-B-Length	CM(T)-D60-Length	/	
22	Medium inertia	MS5G-220STE-TL140015B-422P0-S01		DS5C1-422P0-PTA		CPT-ZDL-B-Length	CM-D100-Length	/	

Product accessories

Quick connector

- Provide convenient wiring terminals
- Used by 100W ~ 15kW drivers
- Suitable for DS5F, DS5K series 44 bits terminal: DTHDB44M-BK10



X-NET module

- Bus module: JA-NE-L
- Twisted pair shielded cable for bus module: JC-EA-Length



Battery box

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



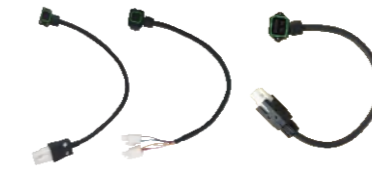
JC-CB bus wiring cable

- Special communication cable for EtherCAT motion bus
- CAT5e 4-core Ethernet cable



B3 to AMP conversion cable

- Power cable
- Encoder cable



Power cable

Encoder cable

DB9 side cable

- Cable specification is 1.5m
- Connect to the PC to control the servo



Power cable

- Cable specification: 2/3/5/8/10/12/16/20/25/30m
- The length can be customized
- Cable connectors can be purchased optionally (excluding cables)



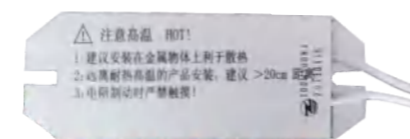
Encoder cable

- Cable specification: 2/3/5/8/10/12/16/20/25/30m
- The length can be customized
- Cable connectors can be purchased optionally (excluding cables)



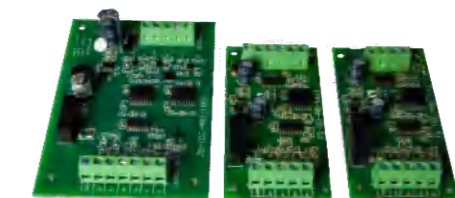
Regenerative resistor

- Release bus capacitor regeneration voltage
- Refer to the selection table of regenerative resistance in the user manual for specific selection



Differential module

- Realize the conversion of collector signal and differential signal
- Differential to differential isolation circuit board: JS-ID-AB
- Differential to collector circuit board: JS-IDC-AB(AB phase), JS-IDC-ABZ(ABZ phase)



Low voltage servo system

Light and compact | Easy to install and debug

Xinje's low-voltage servo system, which can be used for AGV/RGV trolley, adopts low-voltage servo motor for its motion axis, which can provide different motor power options of 0.1kW~1.5kW according to the load size, so as to realize rapid response, high stability and high-precision control in the whole motion control process. Through the cooperative movement between motors, it can realize accurate walking and reversing, and provide a solid and reliable solution for the realization of intelligent logistics.



配备 RS232/RS485、EtherCAT、CAN通讯口
支持 EtherCAT、CANopen、MODBUS等多种通讯协议

*Note: Refer to the model list for the models that have been put into operation. Some models have not been put into operation. Please look forward to it.

DF3E driver

Interface: pulse, RS232, RJ45
Input output: 4 inputs 3 outputs (non-brake model), 3 inputs 3 outputs (brake model)
Control mode: position control, speed control, torque control, bus control



Appearance innovation

The new appearance design, rich interfaces, small volume and light body meet the equipment installation requirements of AGV industry

Powerful function

Support a variety of control modes, with 24V brake output, alarm synchronous braking and other functions to meet customer requirements

Diverse communication

Support EtherCAT*, CANopen, MODBUS and other communication protocols to meet different communication function requirements of users

Convenient debugging

The gain adjustment only needs three steps, which greatly reduces the equipment debugging time and greatly improves the on-site debugging efficiency

MF3S series motor

Power: 0.2~1.5kW
Using occasion: light load high speed positioning



Overload capacity

The whole series is equipped with 3 times overload as standard, and the start and stop in heavy load situations are faster and more stable

Accuracy assurance

The motor is equipped with self-developed 17-bit magnetic encoder, and the positioning accuracy is greatly improved

Excellent performance

The insulation level reaches the highest level F in the industry, which fully ensures the stability of field application

Protective ability

The protection grade reaches IP66, which can easily deal with the occasions with harsh environment such as oil, water vapor and dust, so as to ensure the reliability of the motor

*Note: *the product with is under development, please look forward to it!

Naming rule

Low voltage servo driver

DF **3** **E** - **04** **10** **Z** - **A**

① ② ③ ④ ⑤ ⑥ ⑦

① Name

Display	Product name
DF	Low voltage servo driver

② Series no.

Display	Specification
3	Series no.

③ Control function

Display	Function
E	Pulse, RS485, CANopen
C	EtherCATtype ^{Under development}

④ Driver power

Display	Rated output power
01	100W
02	200W
04	400W
07	750W
15	1.5kW

⑤ Rated current

Display	Rated output current
03	3A
06	6A
10	10A
20	20A
40	40A

⑥ Driver function

Display	Driver function
Z	Servo can drive the brake directly
Vacant	Cannot drive the brake directly

⑦ Driver appearance

Display	Appearance type
A	Small size

Low voltage servo motor

MF3S - **60** **C** **S** **30** **B** **Z** □ - **5** **04**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Type

Display	Inertia
MF3S	Low inertia
MF3G	Medium inertia
MF3H	High inertia

② Base no.

Display	Base no.
40	40flange
60	60flange
80	80flange
130	130flange

③ Encoder type

Display	Type
C	Magnetic encoder
T	Photoelectric encoder

④ Encoder precision

Display	Specification
S	Single turn 17-bit
M	Multi-turn 17-bit
L	Multi-turn 23-bit

⑤ Rated speed

Display	Rated speed
15	1500rpm
20	2000rpm
30	3000rpm

⑥ Motor shaft specification

Display	Shaft key, oil seal
A	With key, no oil seal
B	With key, with oil seal
C	No key, no oil seal
D	No key, with oil seal

⑦ Power loss brake

Display	Specification
Z	With brake
Vacant	Without brake

⑧ Motor connector type

Display	Plug type
1	AMP plug
2	Aviation plug

⑨ Voltage level

Display	Voltage
2	24V
5	48V
6	60V

⑩ Rated power

Display	Power
01	100W
02	200W
04	400W
07	750W
15	1.5kW

Low voltage servo cable

CP - **SP** - **M** - **Length**

① ② ③ ④

① Cable type

Symbol	Cable specification
CP	Normal encoder cable
CPT	High flexibility encoder cable

② Plug type

Symbol	Plug specification
SP	9-core AMP plug
SV	7-core waterproof small aviation plug
SC	10-core small aviation plug

③ Battery box type

Symbol	Battery box type
M	Without battery box
BM	With battery box
B	With battery box

④ Cable length

Symbol	Length (m)
02	2
03	3
05	5

Naming rule

Low voltage servo driver

CM - **P** **15** **A** - **Length**

① ② ③ ④ ⑤

① Cable type

Symbol	Cable specification
CM	Normal power cable
CMT	High flexibility power cable
CMB	Normal brake power cable
CMBT	High flexibility brake power cable

② Plug type

Symbol	Plug specification
P	4-core AMP plug
V	4-core waterproof small aviation plug
XL	6-core aviation plug

③ Cable diameter type

Symbol	Cable diameter (mm ²)
07	0.75
15	1.5
20	2
60	6

④ Terminal type

Symbol	Specification
A	Needle cold rolling terminal

⑤ Cable length

Symbol	Length(m)
02	2
03	3
05	5

Model list

Low voltage servo driver

Series	Driver name	Power(w)	Max continuous output current (A)	Peak current (A)	Control mode
DF3 series DC24~70V	DF3E-0103 ^{Under development}	100	3	10	RS485, PULSE, CANopen
	DF3E-0206 ^{Under development}	200	6	15	RS485, PULSE, CANopen
	DF3E-0410	400	10	30	RS485, PULSE, CANopen
	DF3E-0720	750	20	60	RS485, PULSE, CANopen
	DF3E-1540	1500	40	120	RS485, PULSE, CANopen
	DF3E-0410-A	400	10	30	RS485, PULSE, CANopen

Low voltage servo driver

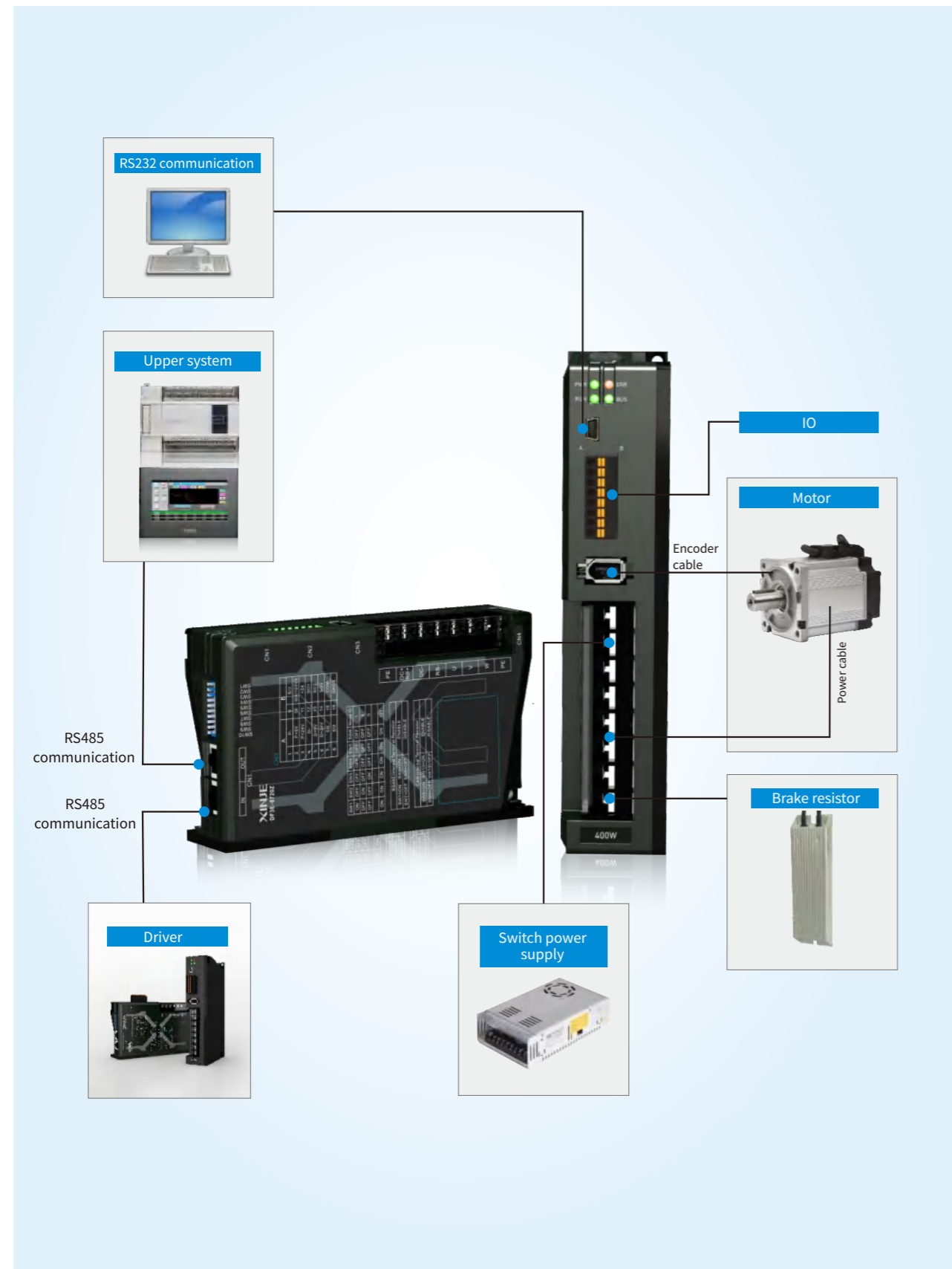
Series	Power supply voltage(V)	Model	Power(w)	Rated torque(N.m)	Rated speed(rpm)	Rated current(A)	Encoder type
MF3series	DC24	MF3S-40CS/CM30B(Z)1-201 ^{Under development}	100	0.32	3000	3	Magnetic encoder 17-bit
		MF3H-60CS/CM30B(Z)1-502	200	0.64	3000	5	Magnetic encoder 17-bit
	DC48	MF3H-60CS/CM30B(Z)1-504	400	1.27	3000	10	Magnetic encoder 17-bit
		MF3S-60CS/CM30B(Z)1-504	400	1.27	3000	10	Magnetic encoder 17-bit
		MF3S-80CS/CM30B(Z)2-507	750	2.39	3000	20	Magnetic encoder 17-bit
		MF3S-130CS/CM30B(Z)2-515	1500	4.8	3000	40	Magnetic encoder 17-bit

Low voltage servo matching list

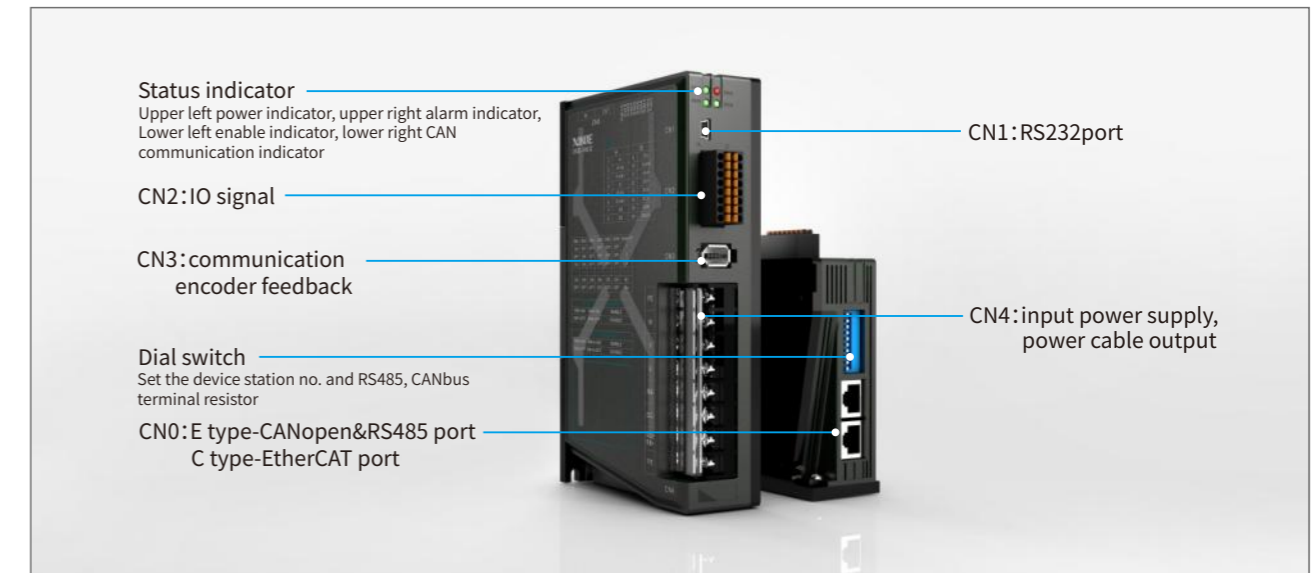
Series	Power(w)	Servo motor	Matched driver	Encoder cable	Power cable		
Low inertia DC24V	100	MF3S-40CS30B(Z)1-201 ^{Under development}	DF3E-0103 ^{Under development}	CP(T)-SP---Length	CM(T)-P07 A-M-Length		
		MF3S-40CM30B(Z)1-201 ^{Under development}		CP(T)-SP-BM-Length			
Low inertia DC48V	200	MF3H-60CS30B(Z)1-502	DF3E-0206 ^{Under development}	CP(T)-SP---Length			
		MF3H-60CM30B(Z)1-502		CP(T)-SP-BM-Length			
	400	MF3S/H-60CS30B(Z)1-504	DF3E-0410(-A)(Z)	CP(T)-SP---Length	CM(T)-P15-Length		
		MF3S/H-60CM30B(Z)1-504		CP(T)-SP-BM-Length			
	750	MF3S-80CS30B(Z)2-507	DF3E-0720(Z)	CP(T)-SV---Length	CM(T)-V20-Length		
		MF3S-80CM30B(Z)2-507		CP(T)-SV-BM-Length			
		1500		MF3S-130CS30B2-515	DF3E-1540	CP(T)-SC---Length	CM(T)-XL60-Length
				MF3S-130CS30BZ2-515		CP(T)-SC---Length	CMB(T)-XL60-Length
MF3S-130CM30B2-515	CP(T)-SC-B-Length	CM(T)-XL60-Length					
MF3S-130CM30BZ2-515	CP(T)-SC-B-Length	CMB(T)-XL60-Length					

*Note: 400W and 750W brake motor need extra brake cable CB(T)-P03-Length.

Peripheral wiring diagram



Terminal definition



CN0 port (E type)

Pin	Definition
1	CAN_H
2	CAN_L
3	CGND
4	485+
5	485-
6	GND

CN1 port

Pin	Definition	Explanation
1	TXD	RS232 send
2	RXD	RS232 receive
3	GND	RS232 signal ground

CN2 port

Pin	Definition
1	P-
2	P+5V
3	P+24V
4	D-
5	D+5V
6	D+24V
7	SI1
8	SI2
9	SI3
10	SI4/+24VS
11	+24V
12	SO1
13	SO2
14	SO3
15	COM
16	-/GNDS

CN4 port (Main circuit terminal)

Pin	Definition
1	PE
2	W
3	V
4	U
5	RB-
6	DC-
7	DC+/RB+
8	PE

CN3 port (communication encoder feedback)

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

* Note: 1.RB+, RB- connect to external resistor.
2.DF3E-1540, DF3E-0206, DF3E-0410-A have no PE terminal.

* Note: the terminal functions of CN2 are divided into two types. One is non-brake model. The function of terminal 10 is SI4 and terminal 16 is empty. The other is the brake model. The function of terminal 10 is +24VS and terminal 16 is GNDS, which can be used in braking control.

Set the communication station number of low-voltage servo through the dial switch SW1~SW6

Station no.	SW1	SW2	SW3	SW4	SW5	SW6
1	ON	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF
...
63	ON	ON	ON	ON	ON	ON
64	OFF	OFF	OFF	OFF	OFF	OFF

SW7,SW8 are used to control whether the internal terminal resistance of RS485 is turned on

RS485 internal terminal resistance			
SW7=ON	SW8=ON	ON	
SW7=OFF	SW8=OFF	OFF	

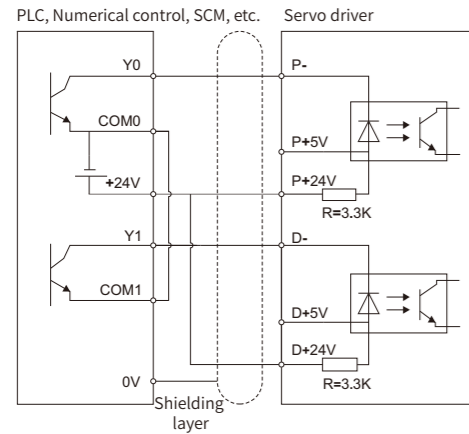
SW9,SW10 are used to control whether the internal terminal resistance of CANbus is turned on

CAN internal terminal resistance			
SW9=ON	SW10=ON	ON	
SW9=OFF	SW10=OFF	OFF	

Typical connection diagram

P+ D, CW, CCW, AB phase interface circuit wiring diagram:

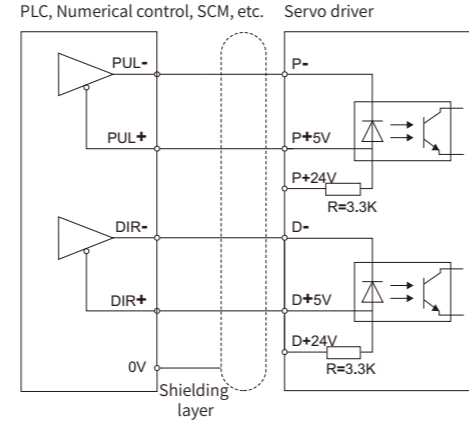
Collector open type (24V)



When the upper device adopts open collector output, this connection method is adopted. Please note that P+ 5V and D+ 5V are suspended.

*Note: ① The power supply range of P-/P+24V, D-/D+24V is 18V~25V. If it is lower than 18V, the pulse and direction may be abnormal.
② For anti-interference, be sure to use twisted pair shielded cable.

Differential mode (5V)

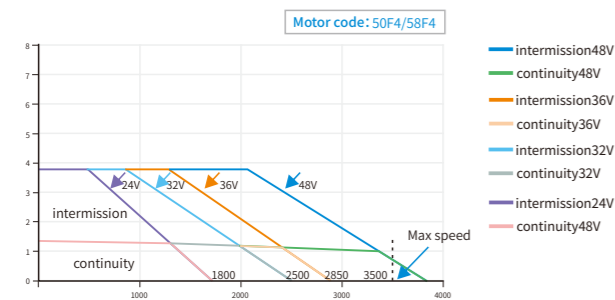


When the upper device adopts 5V differential output, this connection method is adopted. Please note that P+ 24V and D+ 24V are suspended.

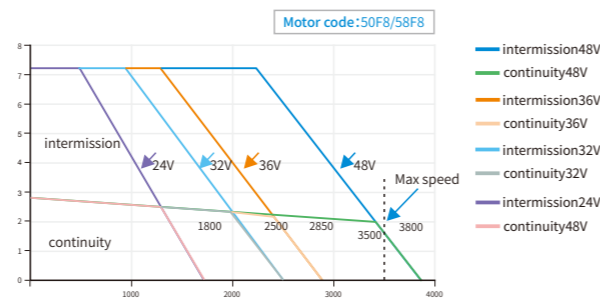
*Note: ① The power supply range of P-/P+5V, D-/D+5V is 3.3V~5V. If it is lower than 3.3V, the pulse and direction may be abnormal.
② For anti-interference, be sure to use twisted pair shielded cable.
③ The servo pulse input port is turned on at 10mA.

Torque frequency characteristic curve

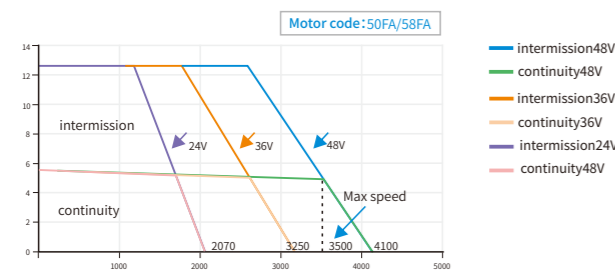
MF3S-60CS/CM30B1-504
MF3S-60CS/CM30BZ1-504



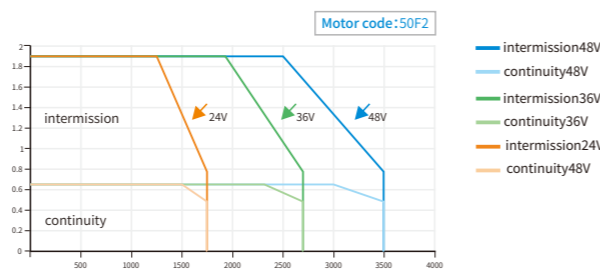
MF3S-80CS/CMB2-507
MF3S-80CS/CMBZ2-507



MF3S-130CS/CM30B2-515
MF3S-130CS/CM30BZ2-515

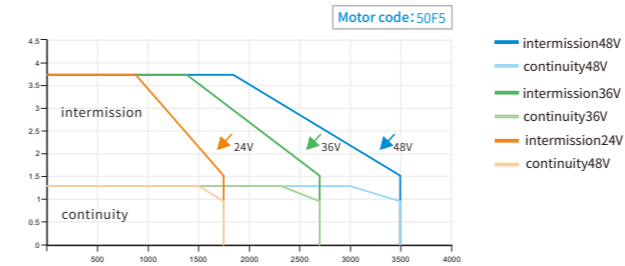


MF3H-60CS(CM)30B1-502



Typical connection diagram (Unit: mm)

MF3H-60CS(CM)30B1-504



Specification table

Driver specification

Item	DF3E-0103 <small>under development</small>	DF3E-0206 <small>under development</small>	DF3E-0410(-A)	DF3E-0720	DF3E-1540
Power	100W	200W	400W	750W	1500W
Input power supply	DC24V-70V				
Rated output current	Max continuous output current(Arms)	3	6	20	40
	Peak current(PEAK)	10	15	30	60
Encoder feedback	17bit communication encoder				
Communication mode	RS232,RS485,CANopen				
Using environment	Using environment	Operation: -10°C~40°C (no condensation)/storage: -20°C~60°C (no condensation)			
	Ambient temperature	Operation/storage: below 90%RH (no condensation)			
	Vibration and impact resistance	4.9m/s ² / 19.6m/s ²			
	Installation location	Places without dust, dry, vibration and corrosive substances			
	Installation method	Vertical or horizontal installation			
Energy consumption braking	Can connect external brake resistor				
Protection function	Overvoltage, undervoltage, overheating, overcurrent, overload, overspeed, excessive position deviation, output short circuit, encoder abnormality, regeneration abnormality protection, overtravel protection, oscillation protection, operation disconnection protection, etc				
Load change rate	0~100% load: below ±0.1% (at rated speed)				
Voltage change rate	Rated voltage ±10%: 0.01% (at rated speed)				
Temperature change rate	1008.20±25°C: below ±0.1% (at rated speed)				
Digital input specification	4 channels digital input (3 channels digital input for brake models)				
Digital output specification	Servo enable, alarm clear, no forward rotation, torque limit selection, internal speed selection, gear ratio switching, mode switching, pulse input prohibition, position deviation clear, internal position step change signal				
Pulse direction	3 channels digital output				
	Positioning completed, servo ready, alarm output, speed arrival, rotation detection, torque limit output, same speed detection, brake release output				
	Support P+D, AB phase, CW/CCW				

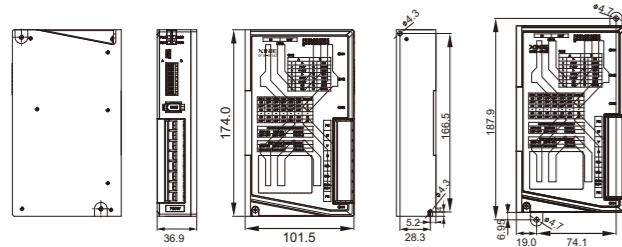
Motor specification

Voltage level	DC48V			
	3H-60 CS/CM30B1	3S-60 CS/CM30B(Z)1	3S-80 CS/CM30B(Z)2	3S-130 130CS/CM30B(Z)2
Motor model MF	502	504	507	515
Rated power (W)	200	400	750	1500
Rated current (A)	5	10	19.2	40
Rated speed (rpm)	3000	3000	3000	3000
Max speed (rpm)	3500	3500	3500	3500
Rated torque (N.m)	0.64	1.27	2.39	4.8
Max torque (N.m)	1.92	3.81	7.17	14.4
Rotor inertia (10 ⁻⁴ ·kg.m ²)	274	536	358.4 (374.9)	980 (1030)
Static friction torque (N.m)	≥1.3		≥2.5	
Bearing axial force (N)	74	74	147	300
Bearing radial force (N)	245	245	392	600
Inertia type	High inertia		Low inertia	
Pole-pair number	5			
Encoder bit	17			
Encoder type	Magnetism			
Cooling method	Natural cooling			
Motor insulation level	CLASSF (155°C)			
Protection level	IP66			
Using environment	Ambient temperature		-15°C~+40°C (no freezing) Relative	
	Ambient humidity		humidity < 90% (no condensation)	

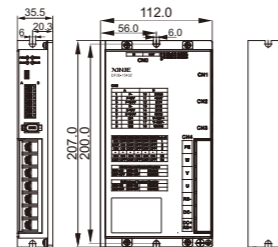
Installation dimension diagram (unit: mm)

Low voltage servo driver

DF3E-0720(Z)/ DF3E-0410(Z)

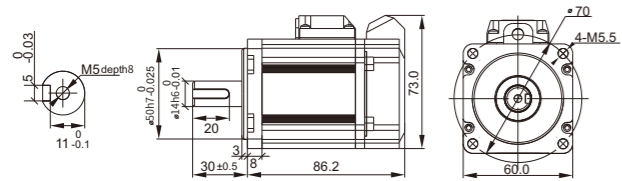


DF3E-1540(Z)

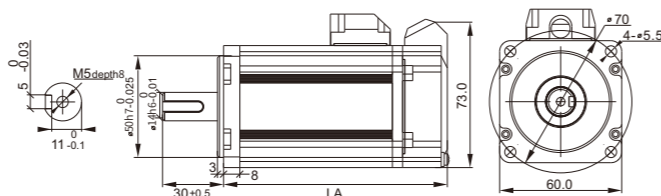


Low voltage servo motor

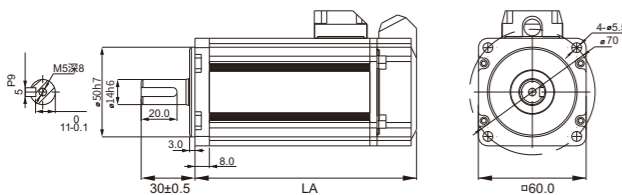
Motor model	Inertia type
MF3H-60CS/CM30B1-502	High inertia



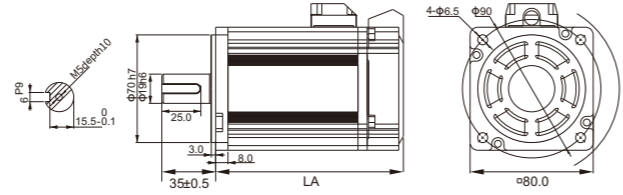
Motor model	LA		Inertia type
	Normal	With brake	
MF3H-60CS/CM30B1-504	110	141	High inertia



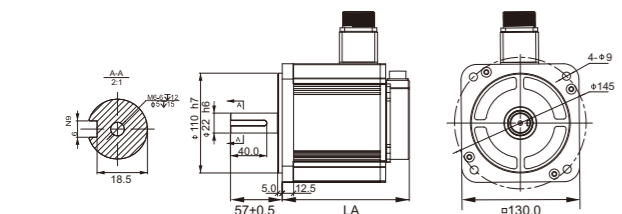
Motor model	LA		Inertia type
	Normal	With brake	
MF3S-60CS/CM30B(Z)1-504	123.5	155.5	Low inertia



Motor model	LA		Inertia type
	Normal	With brake	
MF3S-80CS/CM30B(Z)2-507	122.0	155.0	Low inertia



Motor model	LA		Inertia type
	Normal	With brake	
MF3S-130CS/CM30B(Z)2-515	140.0	168.0	Low inertia



*Note: after the revision of 750W low-voltage servo motor, the body length is reduced.

Two in one servo system

More accurate positioning Faster response
Support gantry synchronization

DM5F series

Flat appearance structure design,
convenient wiring and saving installation space
Support gantry synchronization and realize double-axis accurate
synchronization
Support Modbus RTU, EtherCAT and CANopen
communication protocols
More accurate positioning and faster response
Support position, speed, torque mode, multi-mode seamless
switching

Power: 0.1kW~1.0kW
Interface: pulse, RS232, RS485
Control mode: position control, speed control,
torque control



*Note: Refer to the subsequent list for the models that have been put into operation. Some models have not been put into operation. Please look forward to it.

Naming rule

DM 5□ - 2□P□ - □ A

① ② ③ ④ ⑤ ⑥

①		②		③		④		⑤	
Display	Product name	Display	Product name	Display	Rated input voltage	Display	Power	Display	Axis quantity
DM	Multi-axis servo driver	5F	Full function type	1	DC24V~80V	0P4	400W	2	2axes
		5C	EtherCATtype	2	AC220V	0P7	750W	3	3axes
				3	AC380V				

⑥	
Display	Design number
A	Design no.A

*Note: 750W driver can match the motor of 400W and 750W.

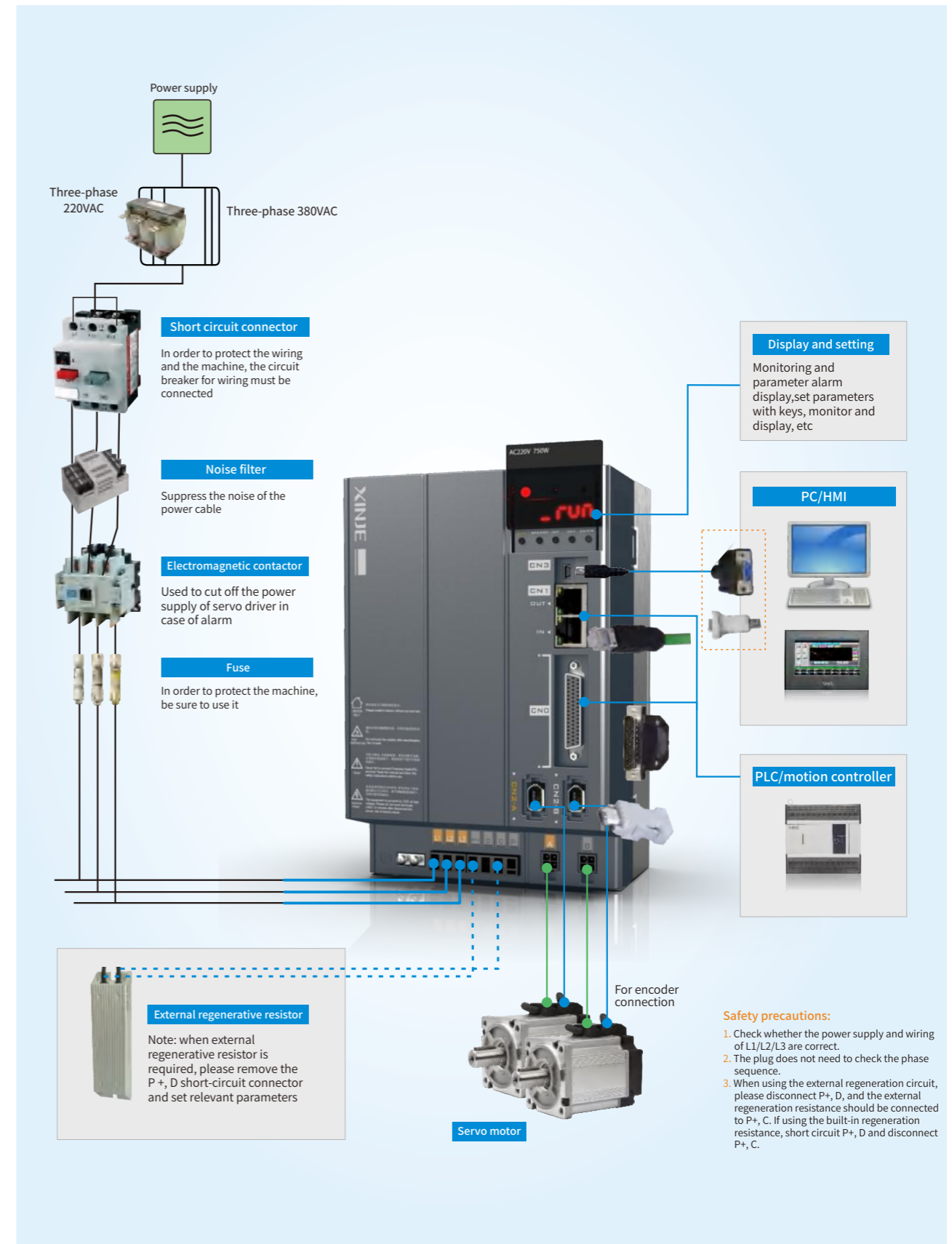
Driver model list

Series	series AC220V	Rated power(W)	Dquantity	Doquantity
DM5 Series AC220V	DM5F-20P4-2A	400	6	6
	DM5F-20P7-2A	750	6	6

Driver specification

Item	DM5F series general model
Power range	0.1kW~1kW
Input power supply	Single phase/three-phase 200~240V, 50~60Hz
Encoder feedback	17bit/23bit communication encoder
Control mode	Three-phase full wave rectifier IPM, PWM control, sine wave current drive mode
Ambient temperature	Operation:-10°C~40°C (no condensation)/storage:-20°C~60°C (no condensation)
Ambient humidity	Operation/storage: below 90% (no condensation)
Vibration and impact resistance	4.9m/s ² / 19.6m/s ²
Installation place	Places without dust, dry, vibration and corrosive substances
Installation mode	Vertical or horizontal installation
Protection function	Overvoltage, undervoltage, overheating, overcurrent, overload, overspeed, analog input abnormality, excessive position deviation, output short circuit, encoder abnormality, regeneration abnormality protection, overtravel protection, oscillation protection, phase loss protection, etc
Dynamic brake	None
Communication	RS232: standardModbusRTUprotocol RS485: standardModbusRTUprotocol
Brake resistor	Built-in brake resistor, can connect external brake resistor
Display and operate	5 digits LED indicator light, power indicator, 2 operation indicators and 5 keys
Output state	ABZ differential feedback output
Frequency division function	Yes
Collector Z phase output	Yes
Digital input	6 channels digital input Servo enable, alarm clear, no forward rotation, no reverse rotation, torque limit selection, internal speed selection, gear ratio switching, mode switching, pulse input prohibition, position deviation clear, internal position step change signal
Digital output	6 channels digital input Positioning completed, servo ready, alarm output, speed arrival, rotation detection, torque limit output, same speed detection, brake release output and frequency division output
Pulse direction control	Support P+D, AB phase, CW/CCW
Max pulse frequency	Collector open: 200kpps, differential input 500kpps
Pulse command mode	3.3~5V/18~24V pulse+direction, AB phase pulse, CW/CCW signal
Control mode	External pulse, internal position
Feedforward compensation	0~100% (set the resolution to 1%)
Positioning completion width	0~65535 command unit (set the resolution to 1 command unit)
Electronic gear ratio	1/10000≤B/A≤10000
Control mode	Internal 3-segment speed, external speed mode
Command smooth mode	Low pass filter, smoothing filter
Analog input	None
Torque limit	Internal parameter
Speed change rate	When the external load rated change is 0~100% of load: below ±0.01% (at rated speed) Rated voltage ±10%: ±0.01% (at rated speed) Ambient temperature 20±25°C: below ±0.01% (at rated speed)
Control mode	Internal torque
Analog input	None
Speed limit	Internal parameter

Peripheral wiring diagram



- Safety precautions:**
1. Check whether the power supply and wiring of L1/L2/L3 are correct.
 2. The plug does not need to check the phase sequence.
 3. When using the external regeneration circuit, please disconnect P+, D, and the external regeneration resistance should be connected to P+, C. If using the built-in regeneration resistance, short circuit P+, D and disconnect P+, C.

Peripheral wiring diagram

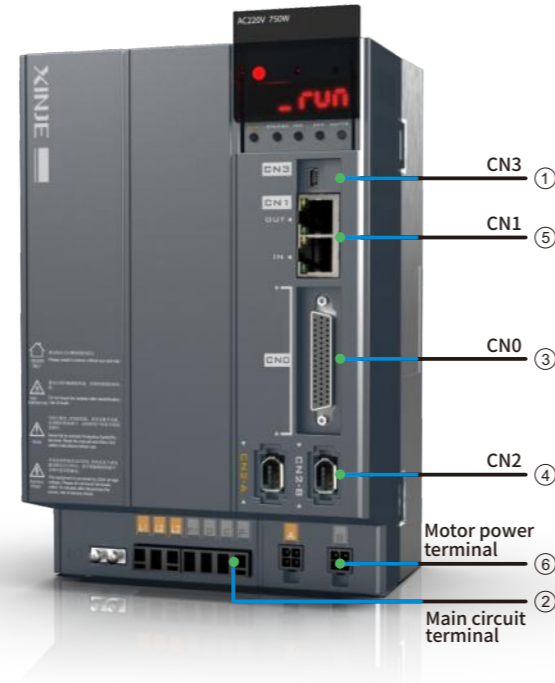
Terminal definition

① CN3 port (RS232)

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

② Main circuit terminals

Terminal	Function	Explanation
L1, L2, L3	Main circuit power supply input terminal	Single/three phase AC 200~240V, 50/60Hz
P+, D, C	Use built-in regenerative resistor	Short circuit P+ and D, disconnect P+ and C
	Use external regenerative resistor	Connect the regeneration resistance to P+ and C, remove the short connectors of P+ and D, and set P0-25=power value, P0-26=resistor value
P+, P-	Bus terminal	The real-time voltage of the bus can be measured, please pay attention



③ CN0 port

Pin	Name	Explanation	Pin	Name	Explanation
1	P1-	Axis 1 pulse -	23	SI5	Input terminal
2	P1+5	Axis 1 pulse +5V	24	SI6	High speed input terminal
3	P1+24	Axis 1 pulse +24V	25	+24V	Common terminal of input
4	D1-	Axis 1 direction -	26	SO1-2	Axis 2 output terminal (500mA)
5	D1+5	Axis 1 direction +5V	27	SO2-2	Axis 2 output terminal (50mA)
6	D1+24	Axis 1 direction +24V	28	SO3-2	Axis 2 output terminal (50mA)
7	SI1	Input terminal	29	COM	Common terminal of output
8	SI2	Input terminal	30	NC	Vacant terminal
9	SI3	High speed input terminal	31	OA1+	Axis 1 encoder frequency division output OA+
10	+24V	Common terminal of input	32	OA1-	Axis 1 encoder frequency division output OA-
11	SO1-1	Axis 1 output terminal (500mA)	33	OB1+	Axis 1 encoder frequency division output OB+
12	SO2-1	Axis 1 output terminal (50mA)	34	OB1-	Axis 1 encoder frequency division output OB-
13	SO3-1	Axis 1 output terminal (50mA)	35	OZ1+	Axis 1 encoder frequency division output OZ1+
14	COM	Common terminal of output	36	OZ1-	Axis 1 encoder frequency division output OZ1-
15	NC	Vacant terminal	37	GND	Frequency division output ground
16	P2-	Axis 2 pulse -	38	OA2+	Axis 2 encoder frequency division output OA+
17	P2+5	Axis 2 pulse +5V	39	OA2-	Axis 2 encoder frequency division output OA-
18	P2+24	Axis 2 pulse +24V	40	OB2+	Axis 2 encoder frequency division output OB+
19	D2-	Axis 2 direction -	41	OB2-	Axis 2 encoder frequency division output OB-
20	D2+5	Axis 2 direction +5V	42	OZ2+	Axis 2 encoder frequency division output OZ+
21	D2+24	Axis 2 direction +24V	43	OZ2-	Axis 2 encoder frequency division output OZ-
22	SI4	Input terminal	44	GND	Frequency division output ground

④ CN2 port

Pin	Name
1	5V
2	GND
3	/
4	/
5	485-A
6	485-B

⑤ CN1 port (from down to up)

Pin	Name	Pin	Name
1	/	7	/
2	/	8	/
3	/		
4	485-A		
5	485-B		
6	485-GND		

⑥ Motor power terminals

Pin	Name
1	V
2	U
3	W
4	PE

Driver motor matching list

DM5F matched MS6 motor

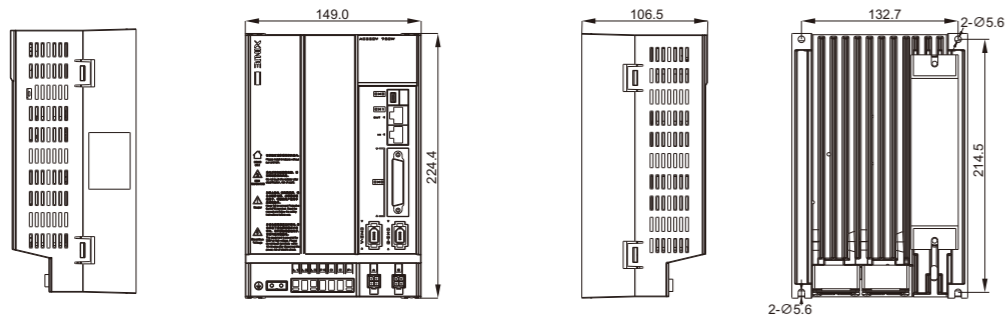
Power(kw)	Inertia level	Motor model	Matched driver	Voltage level	Encoder cable	Power cable	Brake cable	Cable accessories package		
0.2	High inertia	MS6H-60CS30B1-20P2	DM5F-20P4-2A	AC 220V	CP(T)-SP-Length	CM(T)-PP07-M-Length	/	JAM-P9-P4-P4		
		MS6H-60CM30B1-20P2			CP(T)-SP-BM-Length	CM(T)-PP07-M-Length	/	JAM-P9-P4-P4		
		MS6H-60CS30B21-20P2			CP(T)-SP-M-Length	CM(T)-PP07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P4-P2		
0.4	Low inertia	MS6H-60CM30B21-20P2	DM5F-20P4/20P7-2A		CP(T)-SP-BM-Length	CM(T)-PP07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P4-P2		
		MS6S-60CS30B1-20P4			CP(T)-SP-M-Length	CM(T)-PP07-M-Length	/	JAM-P9-P4-P4		
		MS6S-60CM30B1-20P4			CP(T)-SP-BM-Length	CM(T)-PP07-M-Length	/	JAM-P9-P4-P4		
0.4	High inertia	MS6S-60CS30B21-20P4	DM5F-20P4/20P7-2A		CP(T)-SP-M-Length	CM(T)-PP07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P4-P2		
		MS6H-60CM30B1-20P4			CP(T)-SP-BM-Length	CM(T)-PP07-M-Length	/	JAM-P9-P4-P4		
		MS6H-60CS30B21-20P4			CP(T)-SP-M-Length	CM(T)-PP07-M-Length	/	JAM-P9-P4-P4		
0.75	Low inertia	MS6S-80CS20B1-20P7	DM5F-20P7-2A		CP(T)-SP-BM-Length	CM(T)-PP07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P4-P2		
		MS6S-80CM20B1-20P7			CP(T)-SP-M-Length	CM(T)-PP07-M-Length	/	JAM-P9-P4-P4		
		MS6S-80CS20B21-20P7			CP(T)-SP-BM-Length	CM(T)-PP07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P4-P2		
	0.75	High inertia			MS6H-80CM20B1-20P7	DM5F-20P7-2A	CP(T)-SP-M-Length	CM(T)-PP07-M-Length	/	JAM-P9-P4-P4
					MS6H-80CS20B1-20P7		CP(T)-SP-BM-Length	CM(T)-PP07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P4-P2
					MS6H-80CM20B21-20P7		CP(T)-SP-M-Length	CM(T)-PP07-M-Length	/	JAM-P9-P4-P4
	0.75	Low inertia		MS6S-80CS30B1-20P7	DM5F-20P7-2A	CP(T)-SP-BM-Length	CM(T)-PP07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P4-P2	
				MS6S-80CM30B1-20P7		CP(T)-SP-M-Length	CM(T)-PP07-M-Length	/	JAM-P9-P4-P4	
				MS6S-80CS30B21-20P7		CP(T)-SP-BM-Length	CM(T)-PP07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P4-P2	
0.75	High inertia	MS6H-80CM30B1-20P7	DM5F-20P7-2A	CP(T)-SP-M-Length	CM(T)-PP07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P4-P2			
		MS6H-80CS30B1-20P7		CP(T)-SP-BM-Length	CM(T)-PP07-M-Length	/	JAM-P9-P4-P4			
		MS6H-80CM30B21-20P7		CP(T)-SP-M-Length	CM(T)-PP07-M-Length	CB(T)-P03-Length	JAM-P9-P4-P4-P2			

80 flange and below small aviation plug model matching list

Power(kw)	Inertia level	Motor model	Matched driver	Voltage level	Encoder cable	Power cable	Brake cable	Cable accessories package		
0.4	Low inertia	MS6S-60CS30B2-20P4	DM5F-20P4/20P7-2A	AC 220V	CP(T)-SV-M-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4		
		MS6S-60CM30B2-20P4			CP(T)-SV-BM-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4		
		MS6S-60CS30B22-20P4			/	/	/	JAM-V7-V6-P4		
	0.4	High inertia			MS6H-60CS30B2-20P4	DM5F-20P4/20P7-2A	CP(T)-SV-M-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4
					MS6H-60CM30B2-20P4		CP(T)-SV-BM-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4
					MS6H-60CS30B22-20P4		/	/	/	JAM-V7-V6-P4
0.75	Low inertia	MS6S-80CS20B2-20P7	DM5F-20P7-2A		CP(T)-SV-M-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4		
		MS6S-80CM20B2-20P7			CP(T)-SV-BM-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4		
		MS6S-80CS20B22-20P7			/	/	/	JAM-V7-V6-P4		
	0.75	High inertia			MS6H-80CM20B2-20P7	DM5F-20P7-2A	CP(T)-SV-M-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4
					MS6H-80CS20B2-20P7		CP(T)-SV-BM-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4
					MS6H-80CM20B22-20P7		/	/	/	JAM-V7-V6-P4
0.75	Low inertia	MS6S-80CS30B2-20P7	DM5F-20P7-2A	CP(T)-SV-M-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4			
		MS6S-80CM30B2-20P7		CP(T)-SV-BM-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4			
		MS6S-80CS30B22-20P7		/	/	/	JAM-V7-V6-P4			
	0.75	High inertia		MS6H-80CM30B2-20P7	DM5F-20P7-2A	CP(T)-SV-M-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4	
				MS6H-80CS30B2-20P7		CP(T)-SV-BM-Length	CMT-PV07-M-Length	/	JAM-V7-V4-P4	
				MS6H-80CM30B22-20P7		/	/	/	JAM-V7-V6-P4	

Installation dimension (Unit: mm)

DM5F-20P4-2A, DM5F-20P7-2A



Frequency conversion system

VH6 · VHL · VH5 · VH1