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HCFA

HCFA

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Y7 Smart High-end Servo System



With 5S design concept, move towards a higher goal!

Super !

Safety !

Strong !

Satisfied !



Smart !

HN-Y7S Servo System

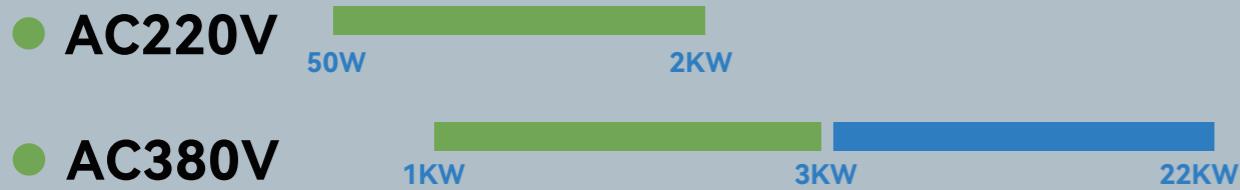
Y7S the new generation of servo system, to make our customer more satisfied!

Smart!

Rich voltage levels and power specifications



Power specifications



The whole series of Y7S servo drives can match with our X2/X6 series servo motor, which is able to provide 14 different servo drive power specifications of 220v 50W~2KW and 380v 1KW~22KW and 76 kinds of servo motor specifications to choose from. It can meet the application requirements of different customers.

Naming Rule HN-Y7 E A 300 T-S

1 Functional classification		3 Power specifications		4 Voltage specifications	
N	General-purpose type	010	100W	A	AC220V
E	Standard type	020	200W	T	AC380V
F	Full-functional type	040	400W		
		075	750W		
		100	1KW		
		150	1.5KW		
		200	2KW		
		300	3KW		
		500	5KW		
		600	6KW		
		750	7.5KW		
		111	11KW		
		151	15KW		
		221	22KW		

2 Product type ^{note 1}		5 Product series branch	
A	Pulse	S	Smart type
B	EtherCAT bus		
K	MII bus		
R	profinet bus		

Same model for 400W or below
-- Easier model selection



Old Y7 series model selection

New Y7S series model selection

More flexible system matching, for servo motor with power below 400W, customers can order 400W servo drive, which can reduce stock categories of dealers and shorten delivery time.

Strong!

Faster response, higher precision, maximize the system performance

3.5kHz
Speed frequency response

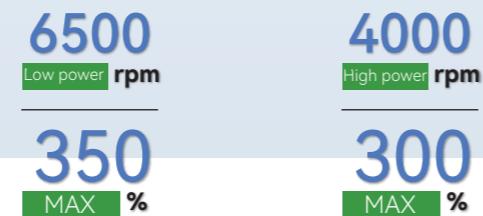
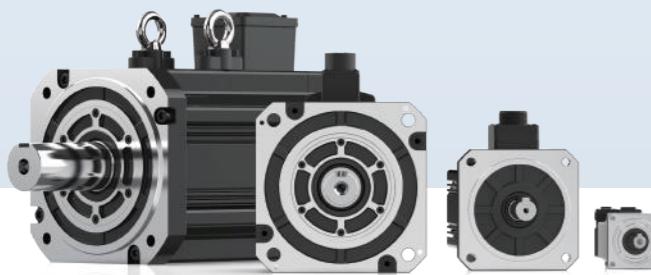
High resolution encoder
20 Bit
X2 series resolution

25 Bit
注1 X6 series resolution



The speed loop has a high response of 3.5kHz, and the accuracy of the encoder is increased to 20bit with X2 series servo motor, and the accuracy of the encoder is increased to a higher 25bit with X6 series servo motor, maximizing the performance of the system and equipment!

Higher speed, higher torque, to realize high-speed equipment!

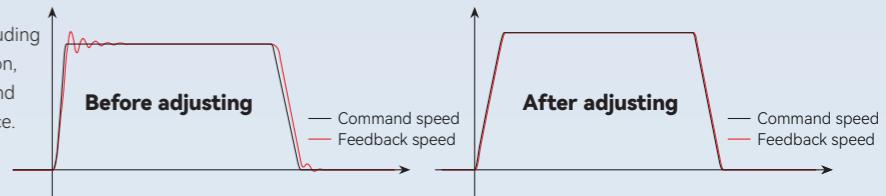


Y7S series is equipped with X2 and X6 series servo motors, which can obtain higher speed and higher torque, shorten positioning time and improve production efficiency!

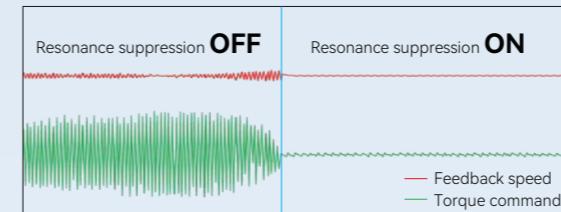
Note 1:X6 series 25Bit servo motor will be launched in Q4 of 2023

One-button self-tuning

Only one button is needed to do the advanced auto-tuning, including resonance suppression, model tracking, and friction compensation, which can be adjusted easily according to different equipment and operating characteristics to maximize the mechanical performance.



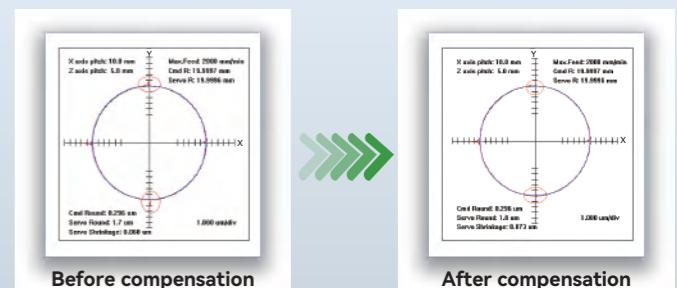
Advanced frequency vibration suppression capability



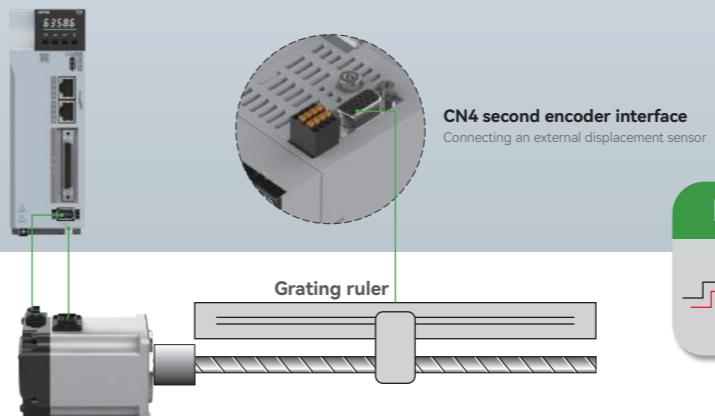
Through the advanced control algorithm, 6 groups of vibrations with different frequencies can be suppressed at the same time, 3 groups of which can suppress low frequency vibrations below about 100Hz, effectively solving the vibration at the end of the cantilever beam mechanism; The other three groups can effectively suppress high-frequency vibrations of 100Hz~5000Hz, improve the gain and rigidity of the mechanism, and effectively suppress the resonance phenomenon of the mechanical structure.

Friction compensation

Improve the accuracy of circular arc trajectory in the trajectory interpolation control of XY mechanism. It can effectively reduce the over-quadrant protrusion caused by the different friction of the mechanism when the servo motor is commutated.



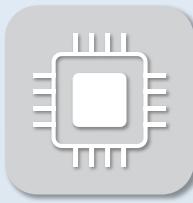
Support full-closed loop control



Full-closed loop control can be externally connected to a grating ruler or an encoder to achieve high-precision positioning by reading the position of the mechanism!

Super!

Super motion bus controlled by "Chip"



The models of Ethercat, MECHATROLINK or profnet, are supported by the same bus chip which is independently developed by HCFA.^{note 1}

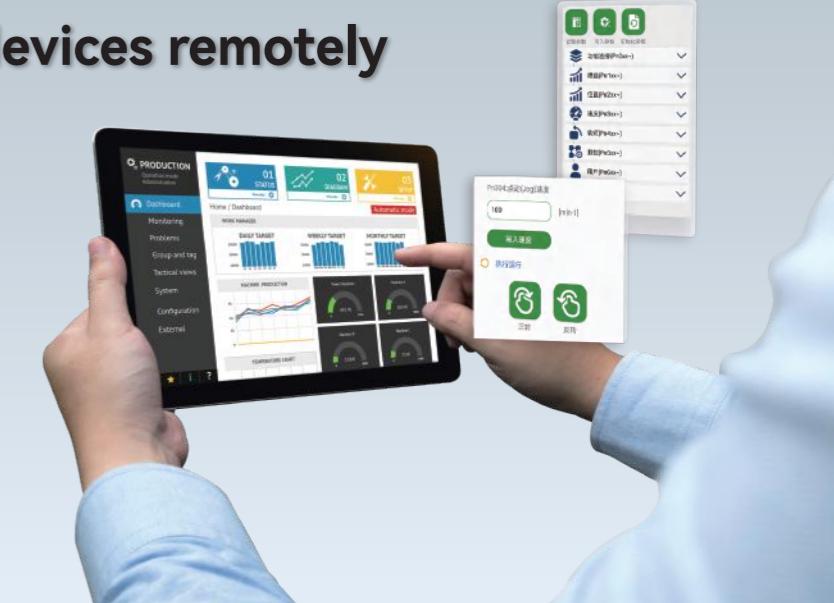
EtherCAT®

Transmission speed
100 Mbps

Command communication cycle
125 µs

Transmission distance
100 m

IoT function to control devices remotely



With the design concept of convenient application, the new wireless Bluetooth^{note 2} function is added in Y7S standard model. Relying on Bluetooth, it not only enables convenient commissioning such as parameter editing, status monitoring, trial run through cell phones and tablets, but also extends the remote IoT function.

MECHATROLINK

Transmission speed
100 Mbps

Command communication cycle
125 µs

Transmission distance
100 m

Note 1: MECHATROLINK bus and PROFINET bus model will be launched in 2024

Note 2: Bluetooth function will be launched in Q2 2023

Safety!

Keep safety of users and machines



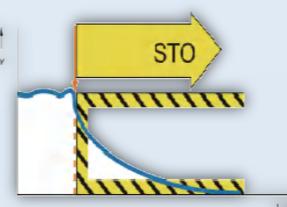
Safety function

Safe Torque Off

STO

STO (Safe Torque Off)

When danger comes, the system triggers the base blocking function of the servo drive, which can cut off the current of the motor in hardware and stop the operation of the equipment as fast as possible to protect users and machines.

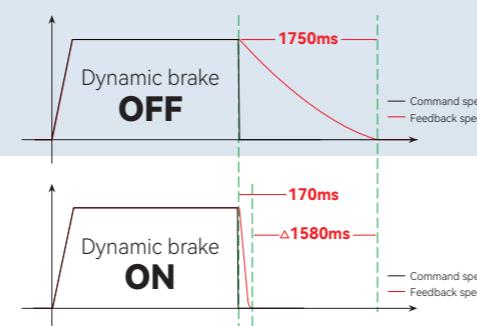


Dynamic brake

DB

DB (Dynamic Brake)

When the servo motor is running, if the power failure or alarm occurs, the servo will turn OFF, quickly to protect users and machines.



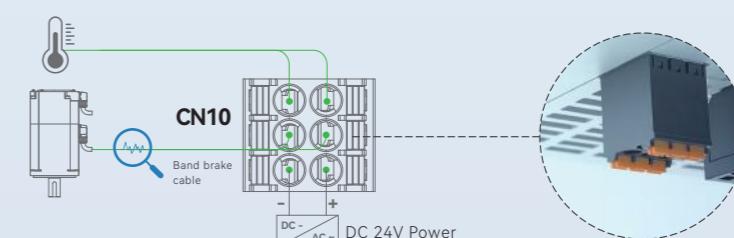
Temperature Detection and Brake Detection

Temperature detection

TD

TD(Temperature Detection)

Y7S standard type is built-in temperature detection unit and can be connected with external temperature sensor, ^{note 1} which can better protect the stable operation of the motor.



Brake detection

BD

BD(Brake Detection)

Y7S standard type is built-in brake control relay, with brake disconnection detection function to make brake control more reliable. ^{note 2}

Note 1: KTY84 temperature sensor is recommended

Note 2: BD function will be launched in Q2 2023

■ AC 220V Servo Drive Specifications

Power(KW)	Pulse	EtherCAT	MECHATROLINK-III ^{note1}	PROFINET ^{note1}	Power supply	Control power
0.4	HN-Y7□A040A-S	HN-Y7□B040A-S	HN-Y7□K040A-S	HN-Y7□R040A-S	Single/Three-phase AC 220V	Common main circuit power
0.75	HN-Y7□A075A-S	HN-Y7□B075A-S	HN-Y7□K075A-S	HN-Y7□R075A-S		
1	HN-Y7□A100A-S	HN-Y7□B100A-S	HN-Y7□K100A-S	HN-Y7□R100A-S		
1.5	HN-Y7□A150A-S	HN-Y7□B150A-S	HN-Y7□K150A-S	HN-Y7□R150A-S		
2	HN-Y7□A200A-S	HN-Y7□B200A-S	HN-Y7□K200A-S	HN-Y7□R200A-S		

Note 1: E:Standard type, F:Full function type, K: MECHATROLINK-III, R: PROFINET will be launched in 2024

■ AC380V Servo Drive Specifications

Power(KW)	Pulse	EtherCAT	MECHATROLINK-III ^{note1}	PROFINET ^{note1}	Power supply	Control power
1	HN-Y7□A100T-S	HN-Y7□B100T-S	HN-Y7□K100T-S	HN-Y7□R100T-S	Three-phase AC 380V	Common main circuit power
1.5	HN-Y7□A150T-S	HN-Y7□B150T-S	HN-Y7□K150T-S	HN-Y7□R150T-S		
2	HN-Y7□A200T-S	HN-Y7□B200T-S	HN-Y7□K200T-S	HN-Y7□R200T-S		
3	HN-Y7□A300T-S	HN-Y7□B300T-S	HN-Y7□K300T-S	HN-Y7□R300T-S		
5	HN-Y7□A500T-S	HN-Y7□B500T-S	HN-Y7□K500T-S	HN-Y7□R500T-S		
6	HN-Y7□A600T-S	HN-Y7□B600T-S	HN-Y7□K600T-S	HN-Y7□R600T-S		AC380V
7.5	HN-Y7□A750T-S	HN-Y7□B750T-S	HN-Y7□K750T-S	HN-Y7□R750T-S		
11	HN-Y7□A111T-S	HN-Y7□B111T-S	HN-Y7□K111T-S	HN-Y7□R111T-S		
15	HN-Y7□A151T-S	HN-Y7□B151T-S	HN-Y7□K151T-S	HN-Y7□R151T-S		
22	HN-Y7□A221T-S	HN-Y7□B221T-S	HN-Y7□K221T-S	HN-Y7□R221T-S		

Note 1: E:Standard type, F:Full function type, K: MECHATROLINK-III, R: PROFINET will be launched in 2024

■ Specifications

Function	Pulse HN-Y7□A****-S			EtherCATbus HN-Y7□B****-S		
	Full-functional type	Standard type	General-purpose type	Full-functional type	Standard type	General-purpose type
I/O	7DI / 5DO	7DI / 5DO	7DI / 5DO	5DI / 2HDO / 3DO	5DI / 3DO	-
Analog input	2 AI	2 AI	-	2 AI	-	-
Analog output	1 AO	1 AO	-	1 AO	1 AO	-
Pulse dividing output	✓	✓	✓	✓	-	-
Full-closed loop	✓	-	-	✓	-	-
STO	✓	-	-	✓	✓	-
Dynamic brake	✓	✓	-	✓	✓	-
Built-in brake	✓	✓	-	✓	✓	✓
RS485	✓	✓	-	-	-	-
Bluetooth	✓	✓	-	✓	✓	-

Note: "✓":With the function, "-":Without the function

■ AC220V General Specifications

Items		Specification					
Name	HN-Y7E□***A-S ^{Note1}	040	075	100	150	200	
Max. applicable motor capacity(kW)	0.4	0.75	1.0	1.5	2.0		
Continuous output current(Arms)	2.8	5.5	7.6	11.6	15.6		
Max. instantaneous output current(Arms)	9.3	16.9	17	28	39		
Main circuit	Supply voltage(Vrms)	Single phase AC200~240V, 50/60Hz			Three-phase AC200~240V, 50/60Hz		
	Current(Arms)	2.5	4.1	5.7	7.3	10	
Control power		Common main circuit power					
Regenerative resistor	Built-in resistor	Resistance(Ω)	-	50	50	50	20
		Capacity(W)	-	40	80	100	100
		External mini. allowable resistance(Ω)	40	40	35	20	20
Over-voltage class		III					

■ AC380V General Specifications

Items		Specification							
Name	HN-Y7E□***A-S ^{Note1}	100	150	200	300	500	600	750	111
Max. applicable motor capacity(kW)	1.0	1.5	2.0	3.0	5.0	6.0	7.5	11	15
Continuous output current(Arms)	4.7	5.4	8.4	11.9	16.5	20.8	25.7	28.1	37.2
Max. instantaneous output current(Arms)	16.9	17	24	31	44	52	65	70	105
Main circuit	Supply voltage(Vrms)	Three-phase AC330~440V, 50/60Hz							
	Current(Arms)	2.9	4.3	5.8	8.6	14.5	17.4	21.7	23.4
Control power		Common main circuit power				AC330V~440V, 50/60Hz			
Regenerative resistor	Built-in resistor	Resistance(Ω)	50	50	50	40	25	20	-
		Capacity(W)	80	80	100	100	100	100	-
		External min. allowable resistance(Ω)	40	40	40	35	25	15	10
Over-voltage class		III							

Note 1: □ indicates control mode. A is Pulse type, B is EtherCAT, K is MECHATROLINK-III, R is PROFINET. Type K and R will be launched in 2024

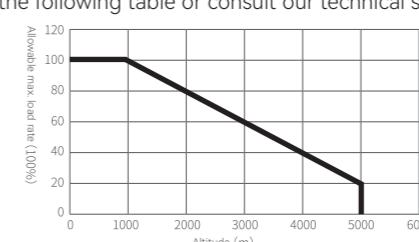
■ Technical Specifications

Items		Specification
Control mode		Position control, speed control, torque control, internal speed control Internal speed control - speed control, internal speed control - position control, internal speed control - torque control Position control - Speed control, Position control - Torque control, Torque control - Speed control Speed control - Speed control with zero fix function Position control - Position control with command pulse prohibition function Full closed-loop control (only full-function type supported)
		Open collector pulse input: frequency not more than 200KHz, pulse width larger than 2.5us
		Differential common pulse input: frequency not more than 500KHz, pulse width larger than 1us
		Differential high-speed pulse input: frequency not more than 4MHz, pulse width larger than 125ns
		Pulse + direction, A-Phase + B-Phase, CW+CCW
		Electronic gear setting B/A
Position control	Command filter	Acceleration and deceleration filters, moving average filter
	Pulse output ^{Note 2}	< 16384
		Output pulse form Differential Output: A/B/Z; Collector output: Z signal
	Control method	External analog input
	Analog input voltage range	DC±10V (Default 6V, corresponding rated speed can be modified by parameters)
	Torque limit function	Parameter setting, parameter setting+I/O control, analog input
Speed control	Control mode	External analog input
	Analog input voltage range	DC±10V (Default 3V, corresponding rated speed can be modified by parameters)
	Speed limit function	Parameter setting, parameter setting+I/O control, analog input
Torque control	Control mode	I/O Control
	Movement speed selection	Support three speed switching by parameters setting
General function	Control signal	7IN/5OUT ^{Note 2}
	Analog signal	Input/Output 2IN (For speed control, torque control) /1OUT (For motor speed and torque monitoring) ^{Note 2}
	STO	Supported only for some models ^{Note 2}
	Second encoder interface	Supported only for some models ^{Note 2}
	Inertia self-estimation	Provided
	Tuning-less function	Provided
	One-button tuning	Provided
	Friction compensation	Provided
	Vibration suppression frequency 1	Provided
	Vibration suppression frequency 2	Provided
	Adaptive notch filter	Provided
	Encoder output division and multiplication	Provided
	Dynamic brake	Built-in, supported only for some models ^{Note 2}
	Regeneration function	Built-in resistor, A larger power braking resistor can be connected
	Protective function	Over-voltage, low-voltage, phase loss, over-current, overheat, overload, encoder error, over speed, excessive position deviation, parameter error, etc.
	Communication	USB For PC communication(Used for HCServoWorks.Y7) Industrial Networks RS-485、EtherCAT、MECHATROLINK-III、 ^{Note 1} PROFINET ^{Note 1}

Note 1: The models of MECHATROLINK-III&PROFINET will be launched in 2024

Note 2: Refer to page 11 for details

■ Environmental Specifications

Items	Specifications
Ambient temperature	0°C ~ + 55°C (10% reduction for every 5 degrees of increase in ambient temperature above 45 degrees)
Ambient temperature for storage	-20°C ~ + 65°C (Max.temperature : 80°C 72 hours without condensation)
Ambient humidity for use	20% ~ 85%RH or less(Without condensation)
Ambient humidity for storage	20% ~ 85%RH or less(Without condensation)
Vibration resistance	5.88m/s^2 (0.6G) or less, 10~60Hz (Avoid being used at resonance frequency)
Impact resistance	Acceleration up to 100m/s^2 or less (XYZ)
Protection level	IP20
Cleanliness	No corrosive gas, combustible gas No water, oil, chemical splash
Altitude	1000m or below. When the altitude exceeds 1000m, derating before use. It is recommended to refer to the following table or consult our technical staff 
Others	Strong magnetic field, radiation, etc

Wiring Diagram for Y75 Series Servo Drive[220V]

■ Note: Interface Difference Specifications

Due to different servo drives, the interface differences between models are as follows:

Interface	Function	Pulse HN-Y7□A****-S			EtherCAT bus HN-Y7□B****-S		
		Full-functional type	Standard type	General-purpose type	Full-functional type	Standard type	General-purpose type
CN1	IO signal	✓	✓	✓	✓	✓	-
CN3	STO security interface	✓	-	-	✓	✓	-
CN4	Second encoder interface	✓	-	-	✓	-	-
CN6	Communication interface	RS485	RS485	-	EtherCAT	EtherCAT	EtherCAT
CN10	Brake interface	✓	✓	-	✓	✓	✓

■ Note 3: CN3 STO security interface definition

STO interface	STO connector	Interface layout	pin1	pin2	pin3	pin4	pin5	pin6	pin7	pin8
		EDM+ HWBB2+ HWBB1+ NC-	8 6 4 2	7 5 3 1	EDM- HWBB2- HWBB1- NC+	NC+ - Input1- Input1+	NC- - Input1- Input1+	HWBB1- HWBB1+ Input2- Input2+	HWBB2- HWBB2+ Input2+ Output-	HWBB2+ EDM- Output- Output+

■ Note 4: CN4 second encoder interface definition

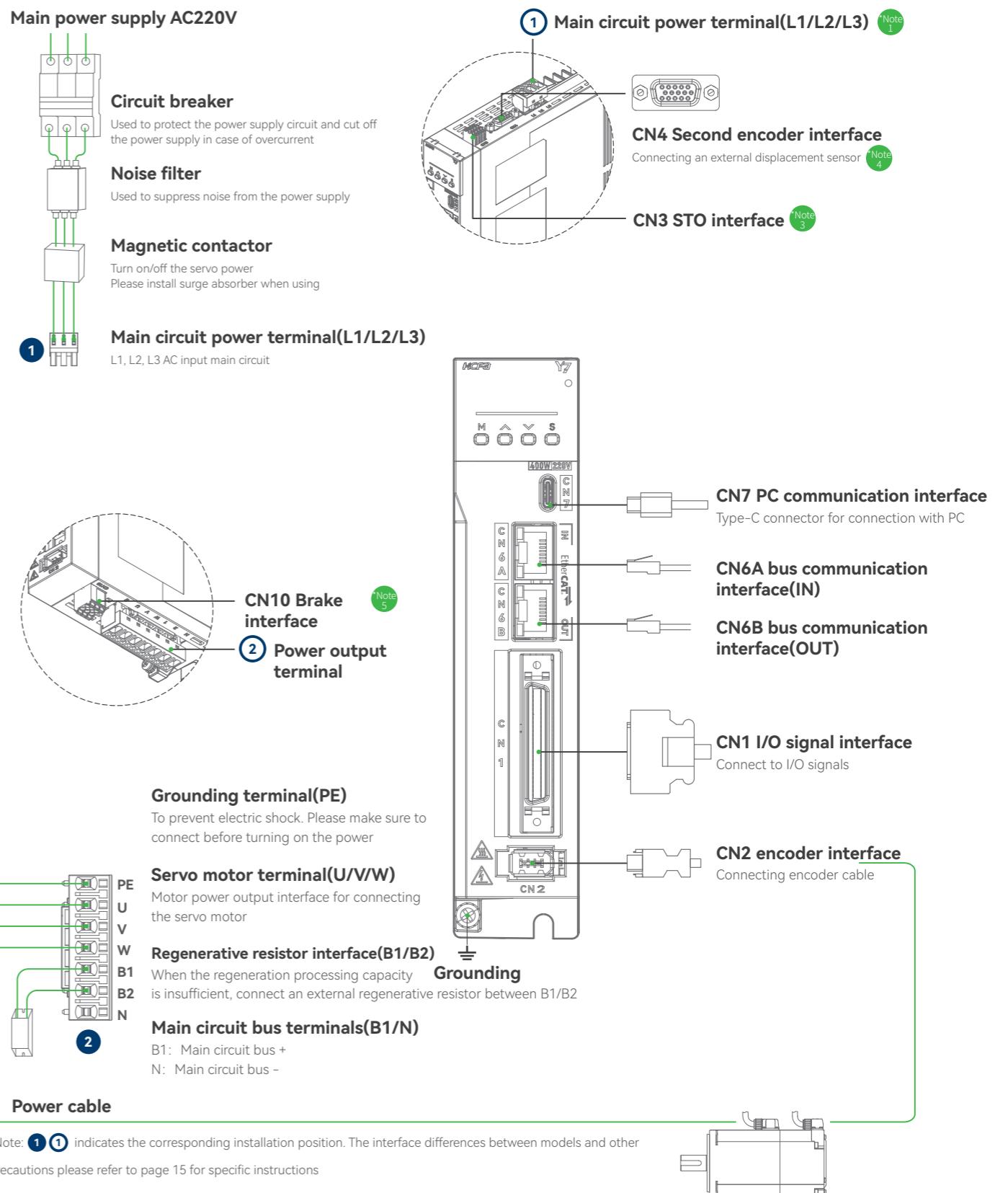
	pin1	pin2	pin3	pin4	pin5	pin6	pin7	pin8	pin9	pin10	pin11	pin12	pin13	pin14	pin15
Incremental ABZ	5V	0V	Hall U+	Hall U-	Hall V+	EXA-	EXB-	EXZ-	Hall W+	Hall V-	EXA+	EXB+	EXZ+	Hall W-	-
sine cosine	5V	0V	Hall U+	Hall U-	Hall V+	Sin-	Cos-	-	Hall W+	Hall V-	Sin+	Cos+	-	Hall W-	-
BiSS-C	5V	0V	-	-	-	CLK-	DATA-	-	-	-	CLK+	DATA+	-	-	-
Tamagawa	5V	0V	-	-	-	DATA-	-	-	-	-	DATA+	-	-	-	-

■ Note 5: CN10 brake and temperature detection interface definition

Drive brake interface	Brake and temperature detection connector	Interface layout	pin1	pin2	pin3	pin4	pin5	pin6
	<p>note 7 Servo motor brake cable DC 24V Power note 6</p>	<p>T- BK- 0V T+ BK+ 24V</p>	24V	0V	BK+	BK-	T+	T-

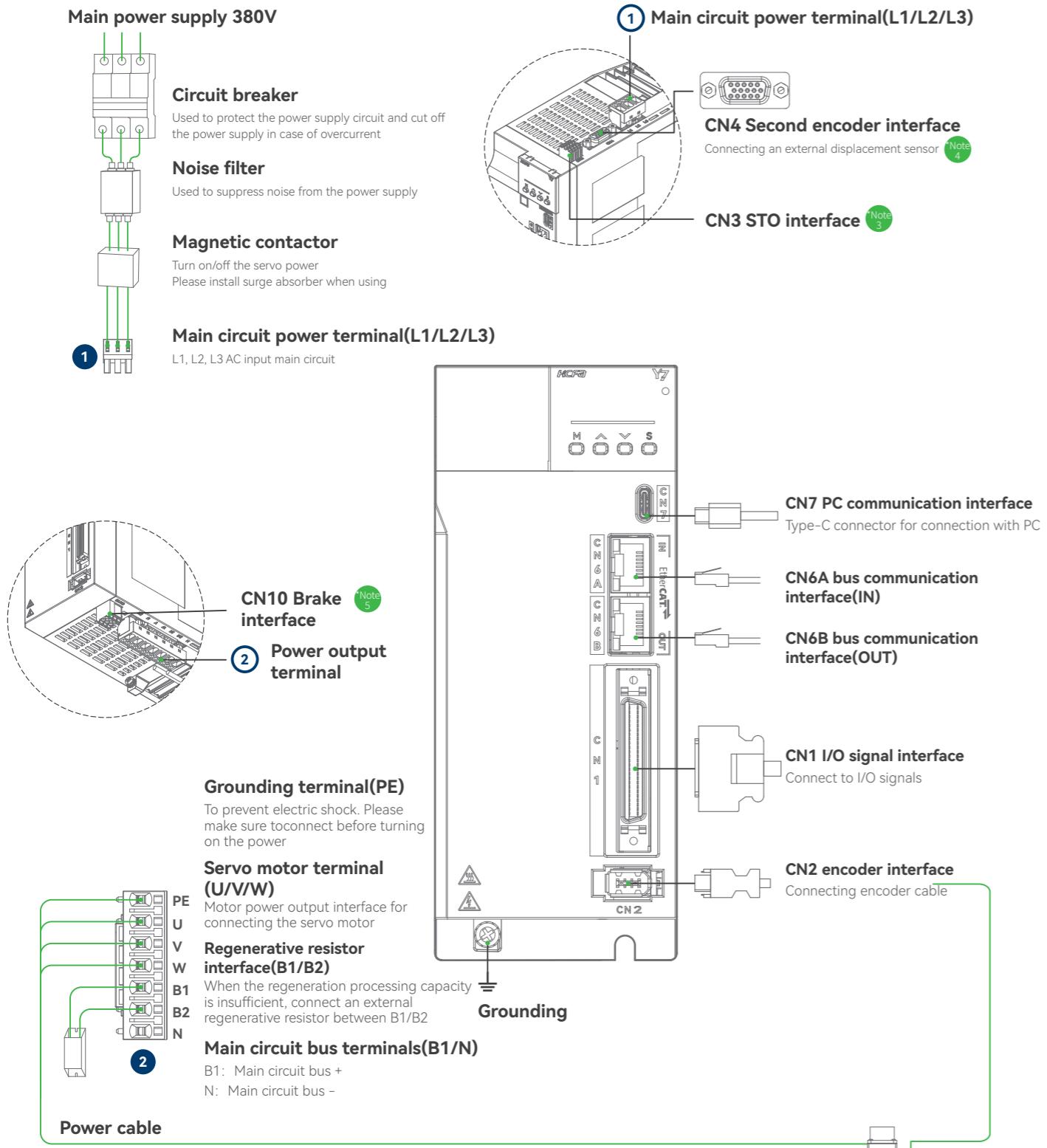
Note 6: Please do not share the power supply of DC24V brake with CN1 control circuit
Note 7: The specification of NTC is KTY84

AC220V 2kW and below

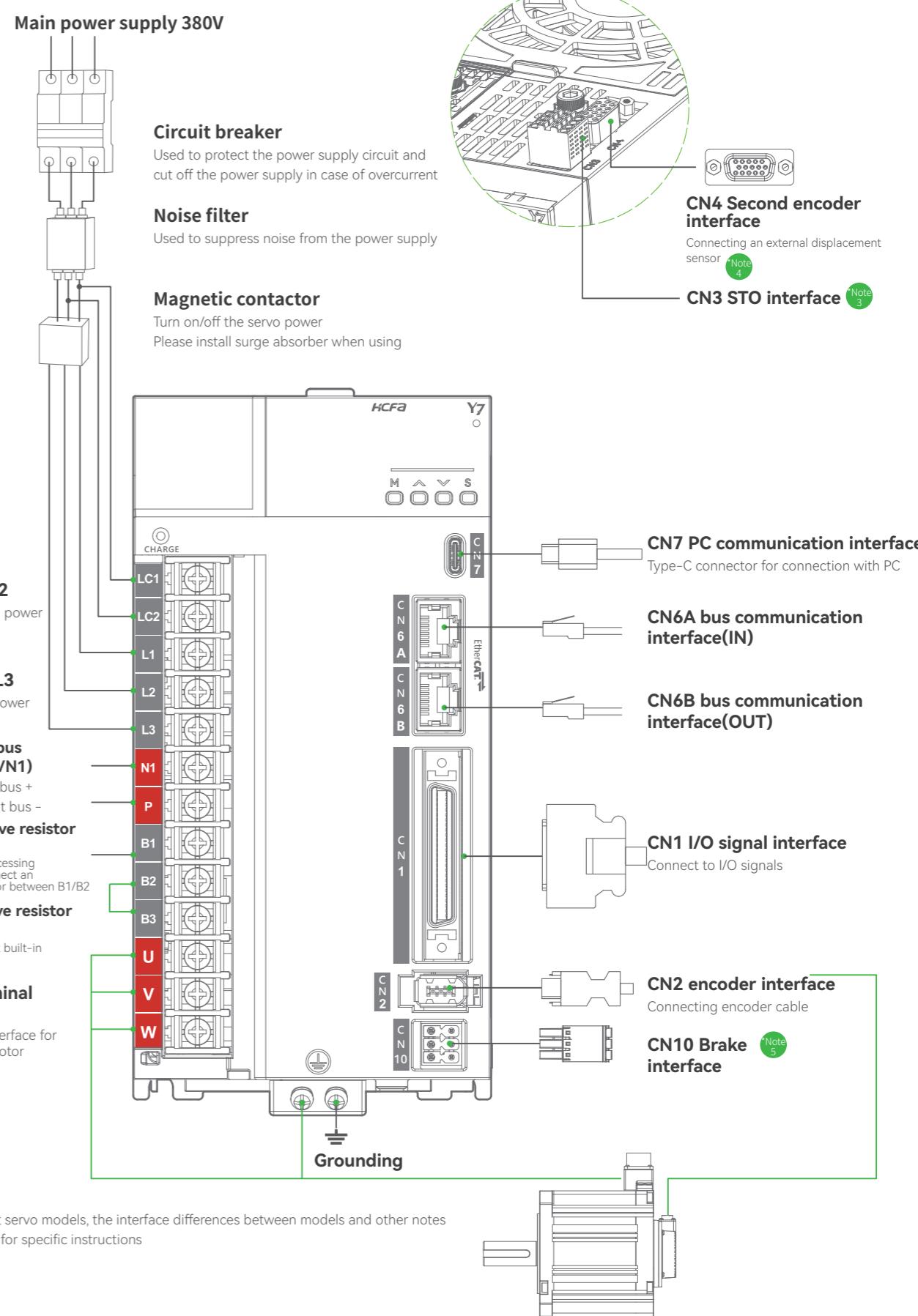


Wiring Diagram for Y75 Series Servo Drive[380V]

AC380V 3kW and below



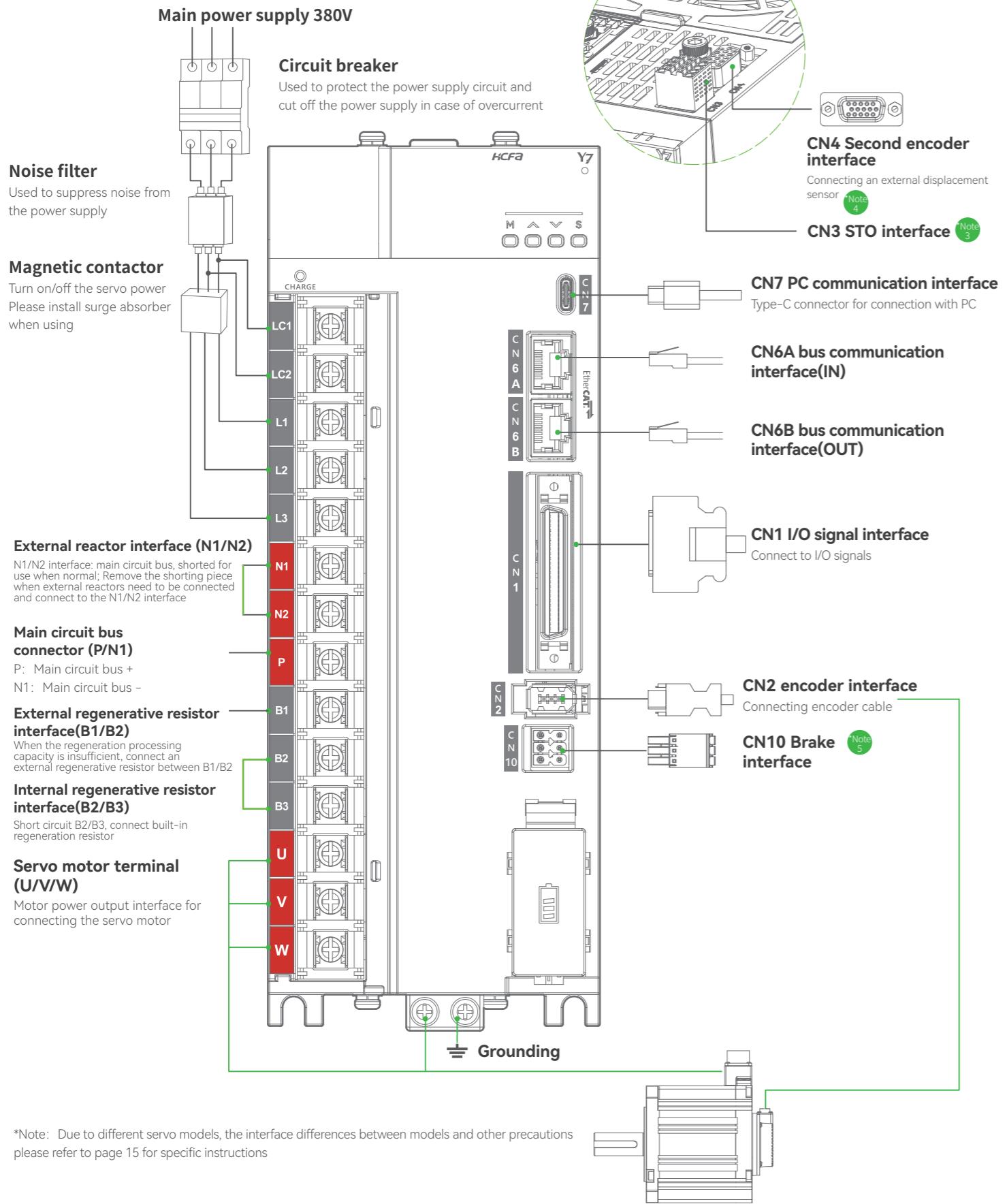
AC380V 5kW



*Note: ① ① indicates the corresponding installation position. The interface differences between models and other precautions please refer to page 15 for specific instructions

*Note: Due to different servo models, the interface differences between models and other notes please refer to page 15 for specific instructions

AC380V 6/7.5KW

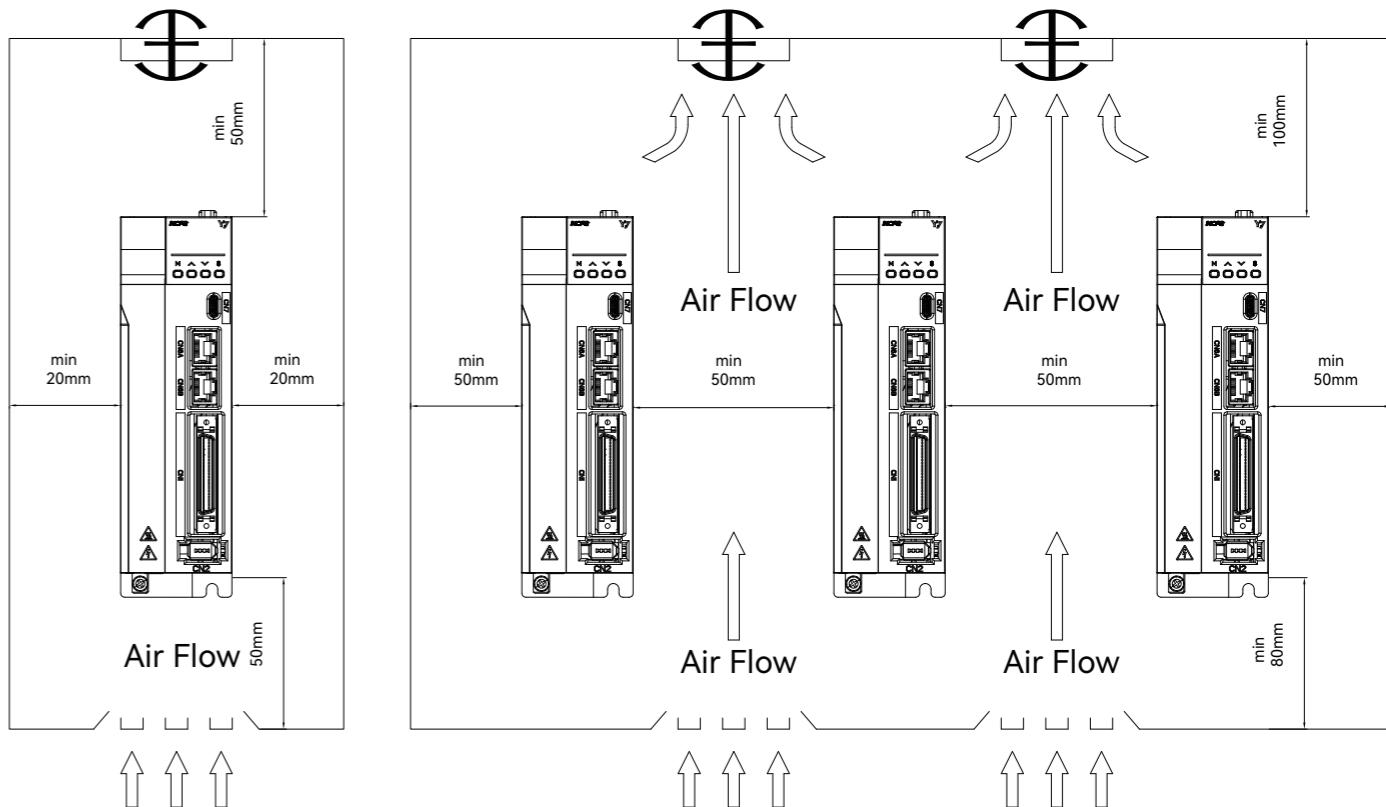


*Note: Due to different servo models, the interface differences between models and other precautions please refer to page 15 for specific instructions

Points for Correct Wiring

1. The power supply of control circuit and main circuit should be wired from the same main power supply.
2. Please use Shielded Twisted Pair for user I/O cable.
3. Use thicker wire (2.0mm² or more) for the grounding cable if possible.
4. Ground the 220V power input type servo unit with a grounding resistance of 100Ω or less; Ground the 380V power input type servo unit with a grounding resistance of 10Ω or less.
5. Single-point grounding must be done.
6. When servo motor and machinery is insulated, please ground the servo motor directly.

When installing more than one servo drive in the control cabinet, ensure that the following space are left around the servo drives.

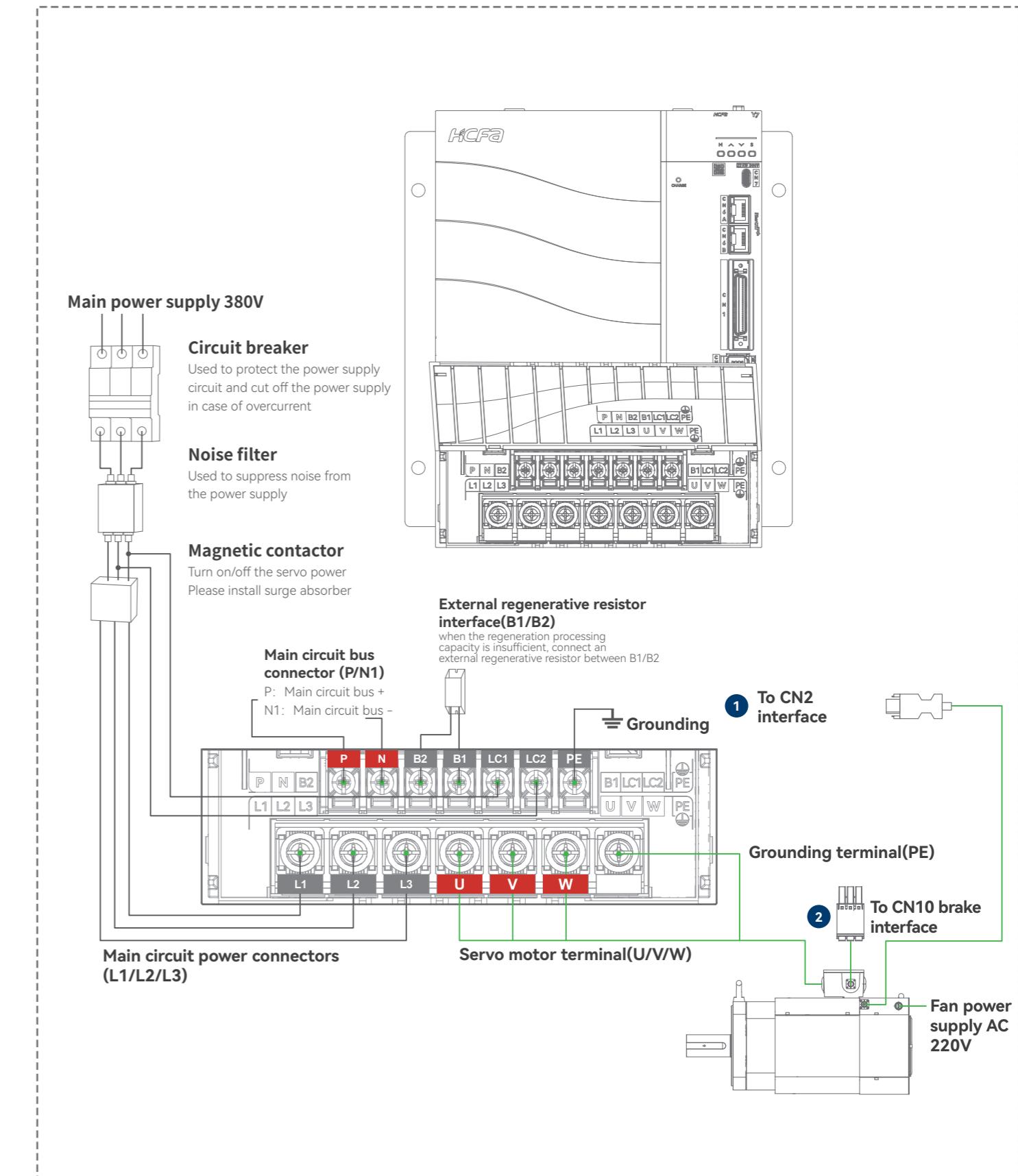
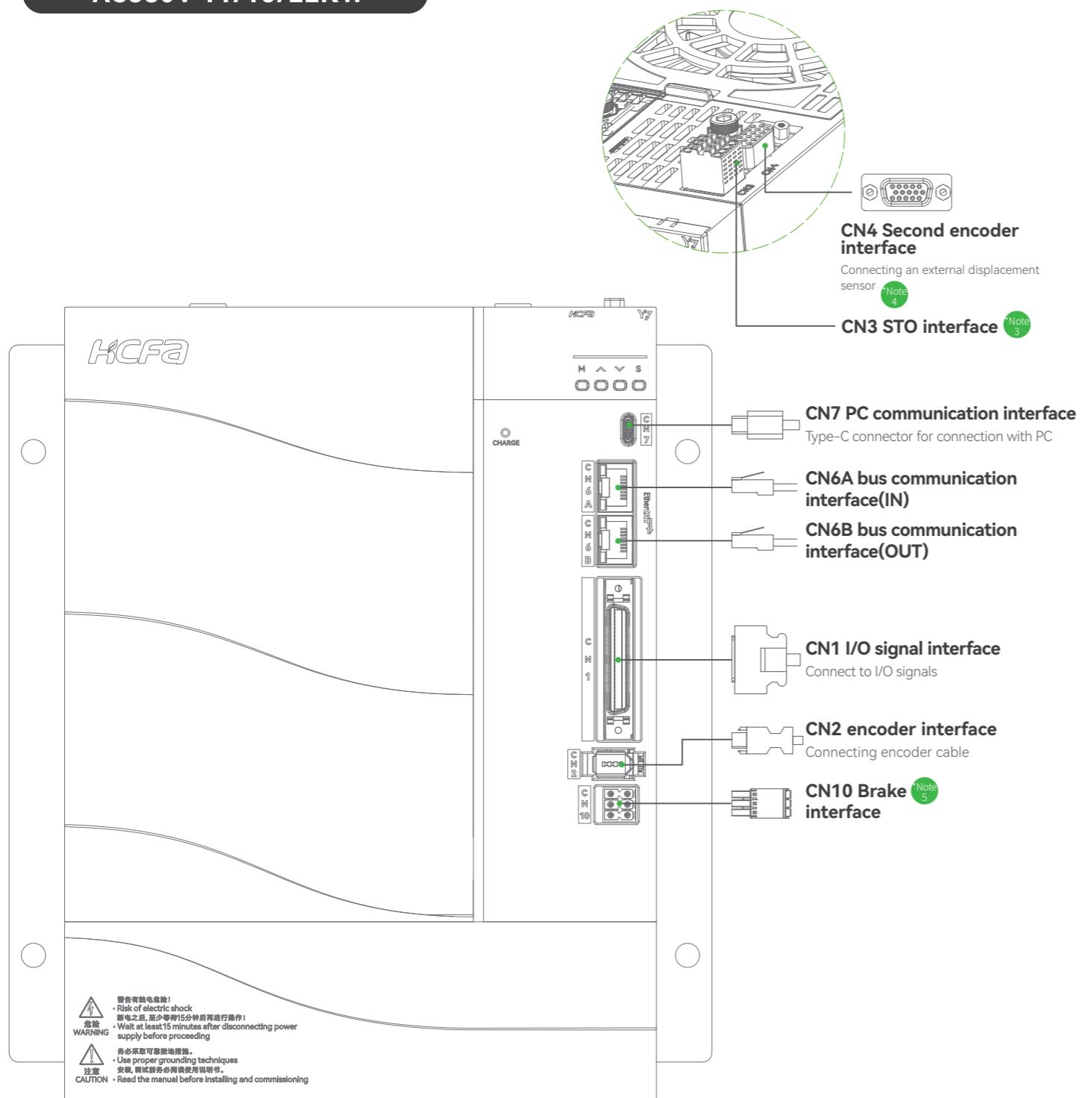


Installation Precautions

- 1. When installing the servo driver, do not seal its suction and discharge holes or place it upside down, otherwise it will cause malfunction.
- 2. In order to get a relatively low air resistance for the cooling fan to effectively dissipate heat, please follow the recommended installation space distance when installing more than one servo drive.
- 3. Please avoid being installed on the other servo drives, because the heat generated by the lower servo drive rises during operation, easily causing unnecessary temperature increase.
- 4. Do not install heat source components such as braking resistors near the servo drive.
- 5. When the electric cabinet environment is in a high humidity environment, install a dehumidification device to avoid condensation.

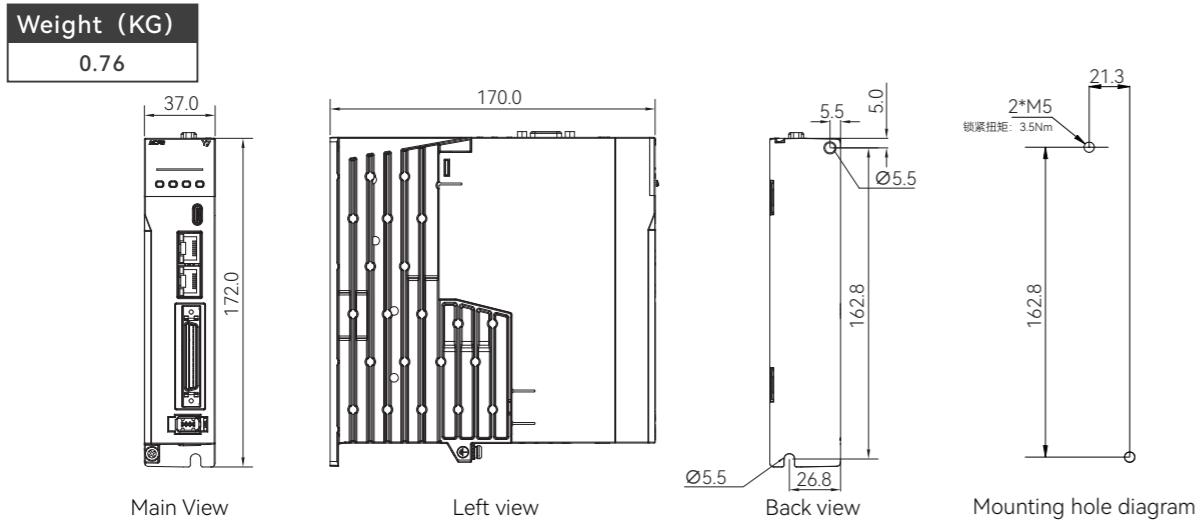
Wiring diagram for Y7S series servo drive[380V]

AC380V 11/15/22KW

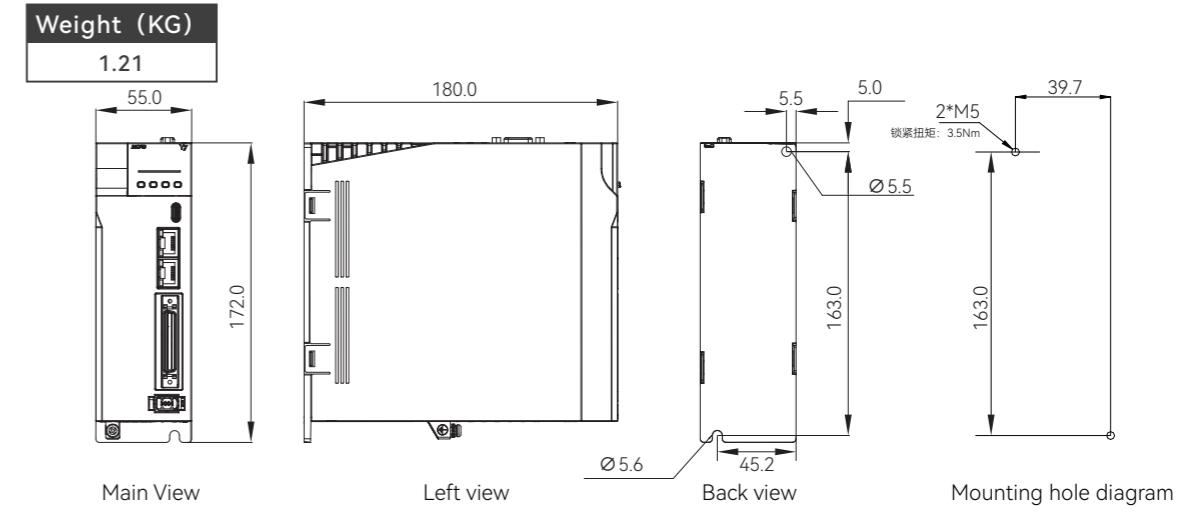


*Note: ① ① indicates the corresponding installation position. The interface differences between models and other precautions please refer to page 15 for specific instructions

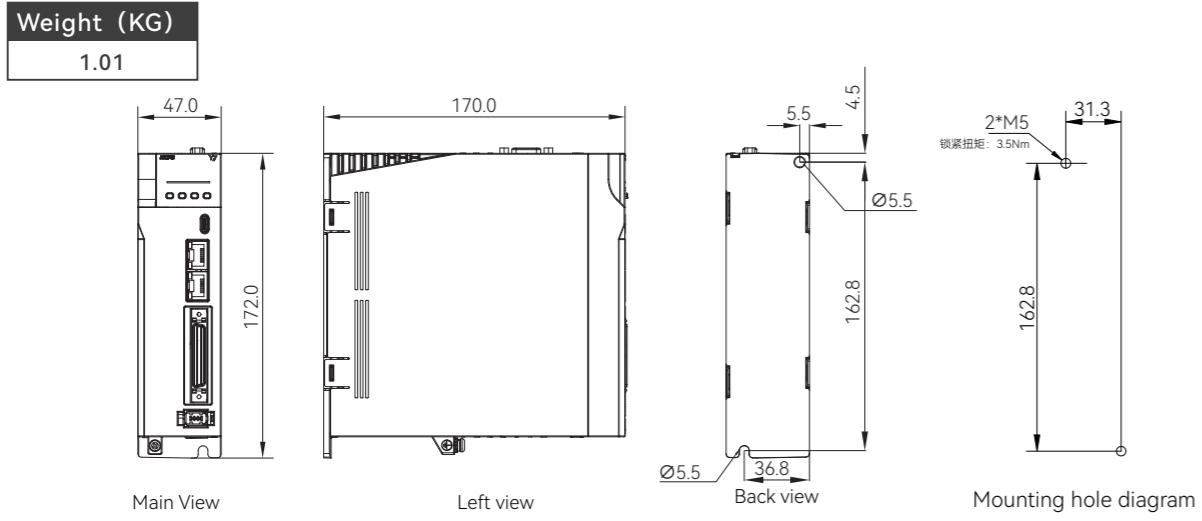
 For 220V models of 400W Unit: mm



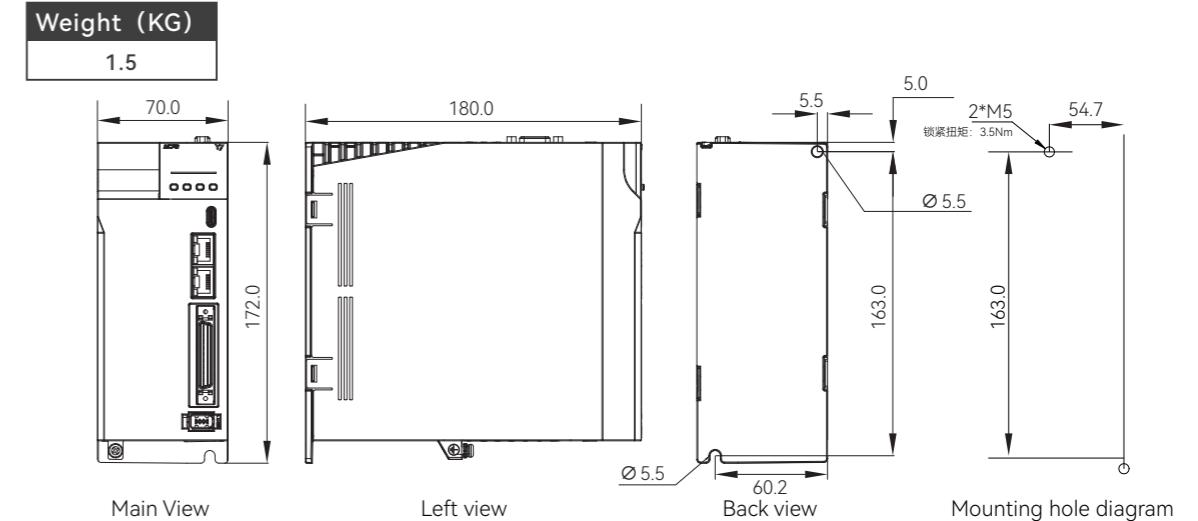
 For 380V models of 1KW/1.5KW Unit: mm



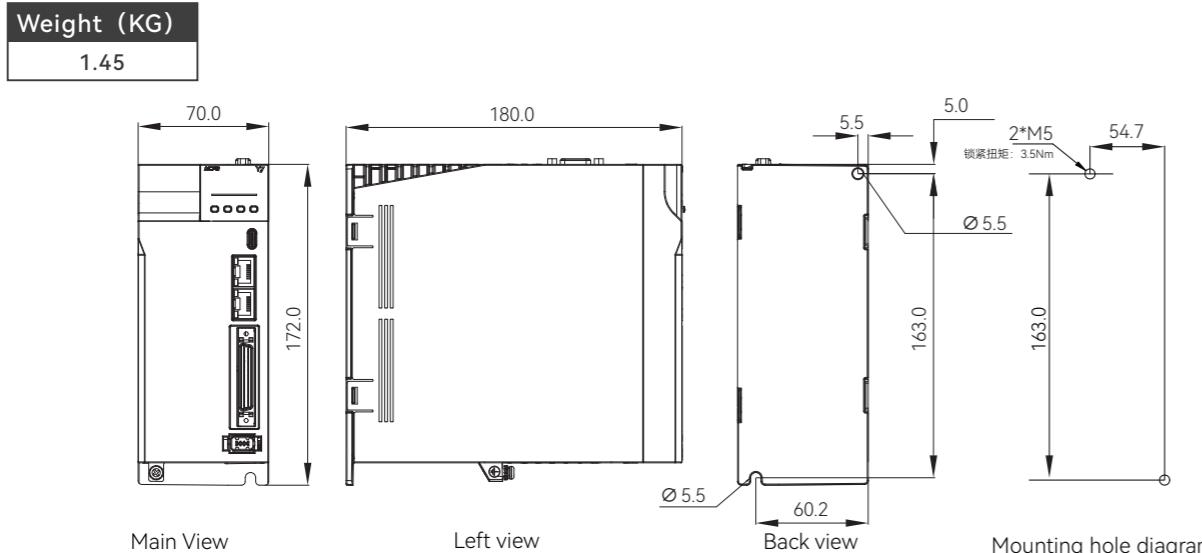
 For 220V models of 750W/1KW Unit: mm



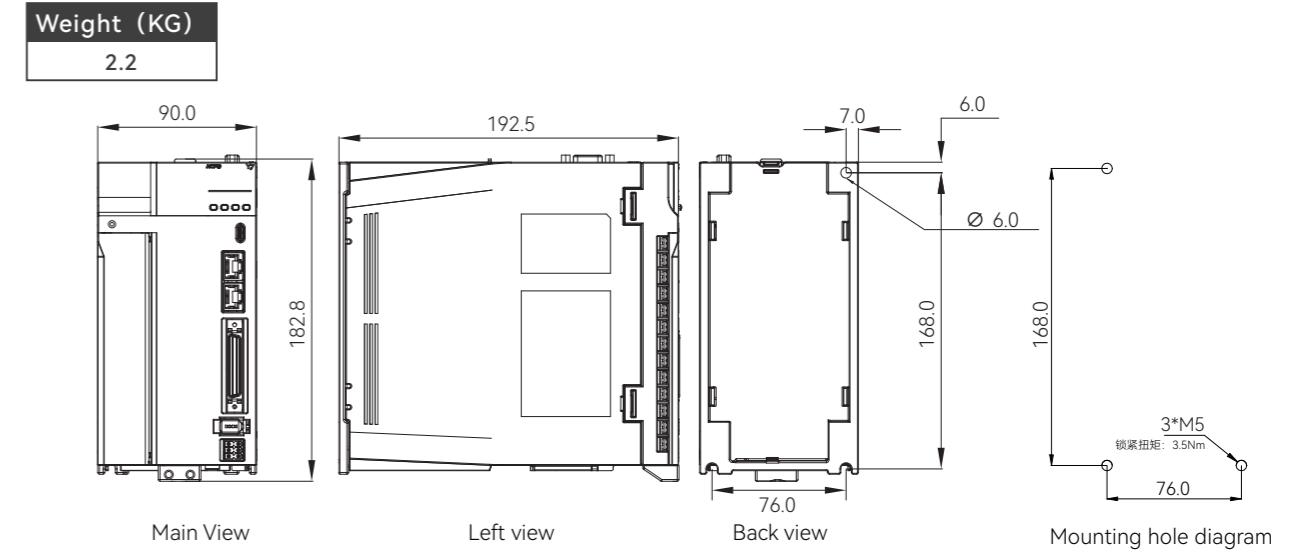
 For 380V models of 2KW/3KW Unit: mm

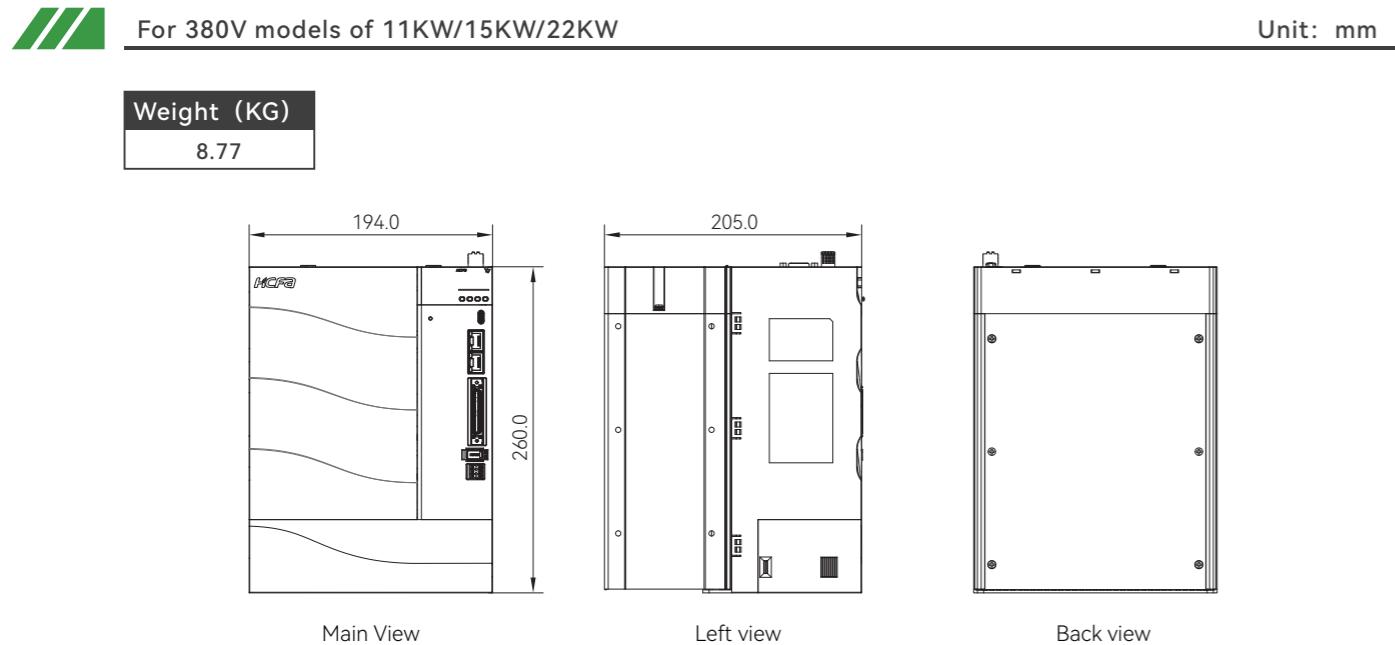
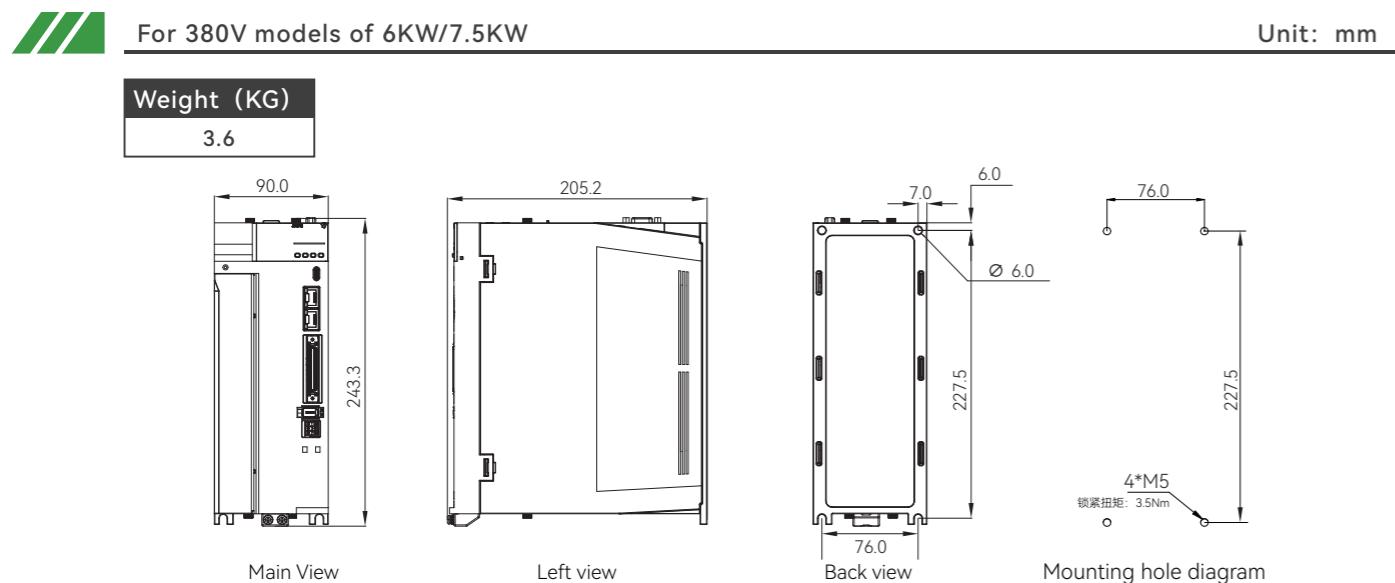
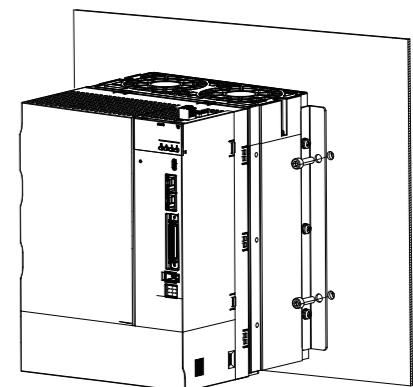
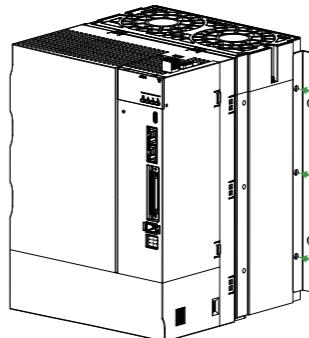
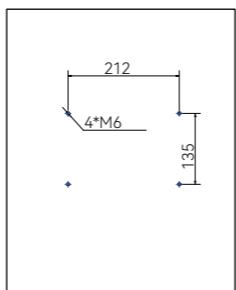
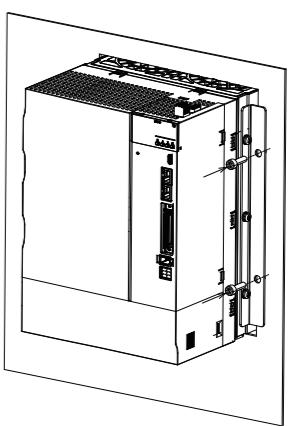
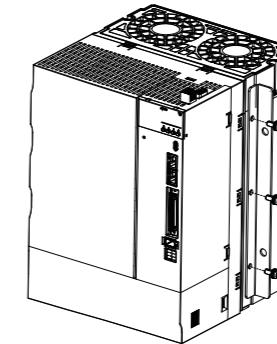
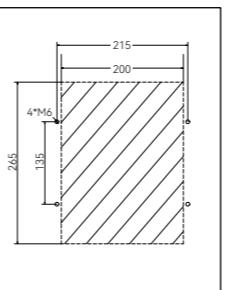


 For 220V models of 1.5KW/2KW Unit: mm



 For 380V models of 5KW Unit: mm



**Base-mounted****Rack-mounted****Precautions**

- 1. When installing the servo driver, do not seal its suction and discharge holes or place it upside down, otherwise it will cause malfunction.
- 2. In order to get a relatively low air resistance for the cooling fan to effectively dissipate heat, please follow the recommended installation space distance when installing more than one servo drive.
- 3. Please avoid being installed on the other servo drives, because the heat generated by the lower servo drive rises during operation, easily causing unnecessary temperature increase.
- 4. Do not install heat source components such as braking resistors near the servo drive.
- 5. When the electric cabinet environment is in a high humidity environment, install a dehumidification device to avoid condensation.
- 6. Please refer to page 20 for other precautions.

X2 Series Servo Motor

AC220V 8 Major Series

43 Models

50W-2.3KW

0.16N.m-15N.m

Adopt 17/20bit^{*Note1} high precision magnetic encoder

- With an x8 encoder resolution from 17bit to 20bit, now up to 1.04 million pulses per revolution, the higher positioning accuracy achieved.

• Motor Electronic Label

The encoder stores motor specifications, parameters and other information, the drive will be automatically matched and plug-and-play

- Higher protection level, easily cope with a variety of harsh applications



High precision



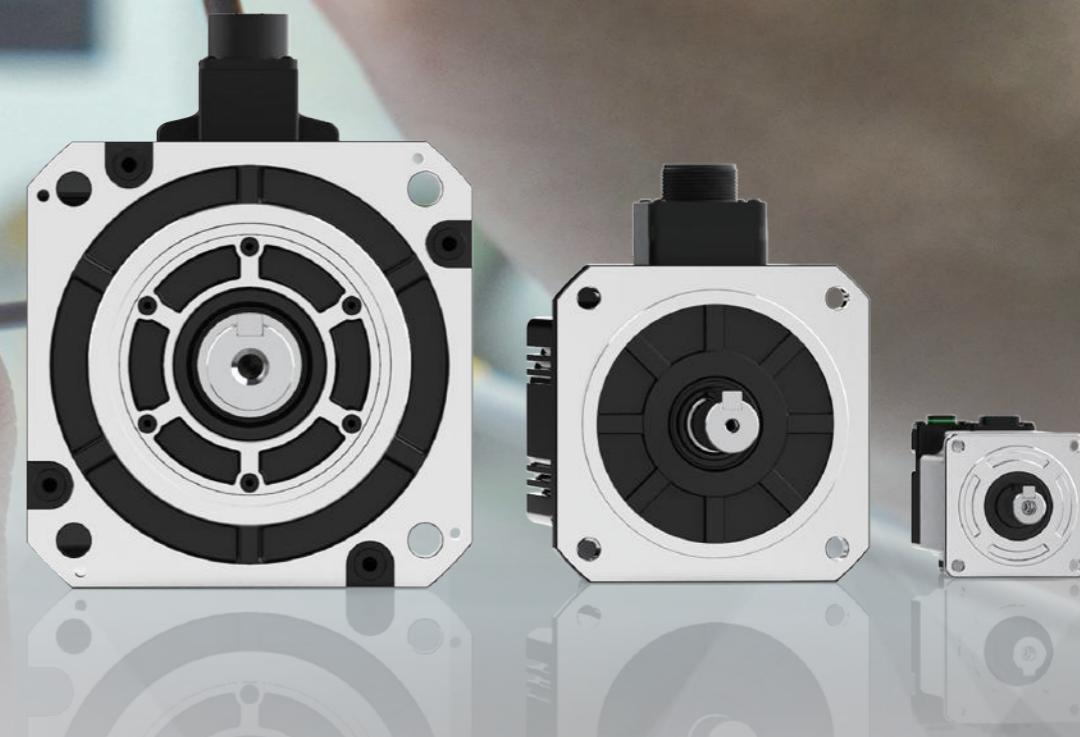
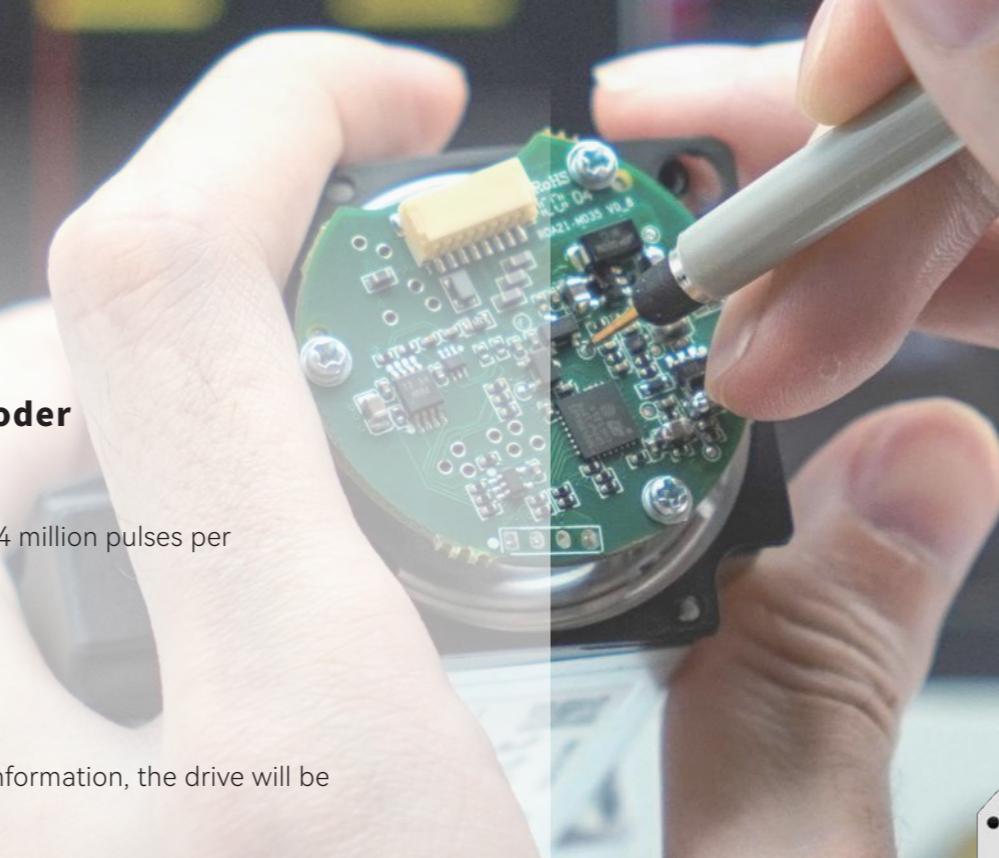
Anti-earthquake



Oil-resistant



Dustproof



*Note1: X2 series servo motor (PNXXXX version) has 20bit resolution when matching with Y7 series servo drives, and 17bit resolution when matching with other servo drives.

SV-X2 MA 040 A - N 2 C A - ***

1

2

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4

5

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7

Special specifications

1 Series name	
SV-X2series	20BIT(PNXXXX Version)

2 Inertia specifications	
MA	Low inertia
MM	Middle inertia
MMS	Middle inertia & high speed
MH	High inertia
MHH	Ultra high inertia
MQ	Special flange/Flat-type/small flange
MG	Low-speed & high-torque
MGS	Low-cogging cutting

3 Power specification	
005	50W
010	100W
015	150W
020	200W
040	400W
075	750W
080	800W
085	850W
100	1KW
130	1.3KW
150	1.5KW
180	1.8KW
200	2KW
230	2.3KW

4 Design number	
A/B/C/S	A: Standard speed B/C/S... Indicates a design sequence different from the standard speed
E/F	Indicates the design sequence of special flange specifications under the same index
H/K	Indicates the design sequence of special inertia

5 Brake specifications	
N	No brake
B	With brake

6 Voltage specifications	
2	AC220V

7 Specifications	
K	Lead wire type/Keyway shaft/no oil seal
L	Lead wire type/Keyway shaft/with oil seal
C	Connector type/keyway shaft/with oil seal*1
D	Connector type/keyway shaft/ no oil seal*1
J	Compact type(customized)

8 Encoder specifications	
N	Single-turn 20bit incremental (PNXXXX version)
A	Multi-turn 20bit absolute (PNXXXX version)
C	Multi-turn 20bit absolute

9 Customization	
**	N/A

Note *1: Note 1: From the 2nd quarter of 2021, our company started releasing connector-type servo motor with 40~80 flanges as the regular model.

Lead-wire servo motors will be discontinued from December 2021, if still needed, the customized application process is required.

For details, refer to page 123 or consult our sales staff.



*2: The PNXXXX version of the X2 series motor has 20-bit resolution for Y7 drives and 17-bit resolution for other series drives.

E.g.

20bit Incremental 220v 400W MA Low Inertia Series Naming rule SV-X2 MA 040A-N2CN

20bit Absolute 220v 400W MALow Inertia Series Naming rule SV-X2 MA 040A-N2CA

X2 Series Servo Motor

Series Name	Specifications	50W	100W	150W	200W	400W	600W	750W	900W	1.0kW	1.2kW	1.5kW	1.8kW	2.0kW
X2-MA Low inertia	Model name		X2MA010A		X2MA020A	X2MA040A	X2MA060E	X2MA075A	X2MA090E	X2MA100A	X2MA120E	X2MA150A	X2MA150E	X2MA180E
	Flange	□40		□60	□60	□110	□80	□110	□100	□110	□100	□110	□110	□100
	Rated [Peak torque]	0.32[1.12]		0.64[1.91]	1.27[3.82]	1.91[5.73]	2.39[7.16]	2.86[8.6]	3.185[9.55]	4[12]	4.77[14.3]	4.77[14.3]	5.73[17.2]	6.37[19.1]
	Inertia: No brake [with brake]	0.041[0.042]		0.16[0.17]	0.28[0.29]	3.1[4.2]	0.96[1.07]	4.5[5.6]	2.03[2.35]	5.9[7]	2.84[3.17]	7.3[8.4]	8.6[9.7]	3.68[4.01]
	Rotation speed: Rated [Max. speed]	3000[6500]		3000[6000]	3000[6000]	3000[5000]	3000[6000]	3000[5000]	3000[5000]	3000[5000]	3000[5000]	3000[5000]	3000[5000]	3000[5000]
X2-MM Middle inertia	220V	□20		□20	□20	□20	□20	□20	□20	□20	□20	□20	□20	□20
	Model name									X2MM100A		X2MM150A		X2MM200A
	Flange									□130		□130		□130
	Rated [Peak torque]									4.77[14.3]		7.16[21.5]		9.55[28.6]
	Inertia: No brake [with brake]									6.18[7.4]		9.16[10.4]		12.1[13.3]
X2-MMS Middle inertia high speed series	Rotation speed: Rated [Max. speed]									2000[3000]		2000[3000]		2000[3000]
	220V									□20		□20		□20
	Model name									X2MM100S		X2MM150S		X2MM200S
	Flange									□130		□130		□130
	Rated [Peak torque]									4.77[14.3]		7.16[21.5]		9.55[28.6]
X2-MH High inertia	Inertia: No brake [with brake]									9.16[10.4]		12.1[13.3]		16.85[18.05]
	Rotation speed: Rated [Max. speed]									2000[5000]		2000[5000]		2000[5000]
	220V									□20		□20		□20
	Model name	X2MH005A	X2MH010A	X2MH015A	X2MH020A	X2MH040A		X2MH075A		X2MH100A		X2MH150A		
	Flange	□40	□40	□40	□60	□60		□80		□130		□130		
X2-MH Ultra high inertia	Rated [Peak torque]	0.16[0.56]	0.32[1.11]	0.477[1.43]	0.64[2.23]	1.27[4.46]		2.39[8.36]		4.77[14.3]		7.16[21.5]		
	Inertia: No brake [with brake]	0.038[0.042]	0.071[0.074]	0.13[0.133]	0.29[0.31]	0.56[0.58]		1.56[1.66]		30.8[32]		38.5[39.7]		
	Rotation speed: Rated [Max. speed]	3000[6500]	3000[6500]	3000[6000]	3000[6500]	3000[6000]		3000[6000]		2000[3000]		2000[3000]		
	220V	□20	□20	□20	□20	□20		□20		□20		□20		
	Model name		X2MH010H		X2MH020H	X2MH040H		X2MH075H						
X2-MQ Special flange Flat-type/ small flange	Flange		□40		□60	□60		□80						
	Rated [Peak torque]		0.32[1.11]		0.64[2.23]	1.27[4.46]		2.39[8.36]						
	Inertia: No brake [with brake]		0.092[0.095]		0.47[0.49]	0.73[0.75]		3.15[3.2]						
	Rotation speed: Rated [Max. speed]		3000[6500]		3000[6500]	3000[6500]		3000[6000]						
	220V		□20		□20	□20		□20						
X2-MQ Special flange Flat-type/ small flange	Model name		X2MQ010A		X2MQ020A	X2MQ040A				X2MQ100E				
	Flange		□60		□80	□80				□80				
	Rated [Peak torque]		0.32[0.96]		0.637[1.91]	1.27[3.82]				3.185[11.13]				
	Inertia: No brake [with brake]		0.14[0.16]		0.47[0.5]	0.87[0.9]				2[2.1]				
	Rotation speed: Rated [Max. speed]		3000[6500]		3000[6500]	3000[6500]				3000[6000]				
X2-MQ Special flange Flat-type/ small flange	220V		□20		□20	□20		□20						

Note 23 20 23 Indicates the encoder bits; The color indicates the voltage specification, orange: 220V, blue: 380V.

*2: X2 series servo motor (Version:PNXXXM) is 20bit resolution when matching with Y7 series servo drive, and it is 17bit resolution when matching with other servo drives.

X2MA-Low inertia

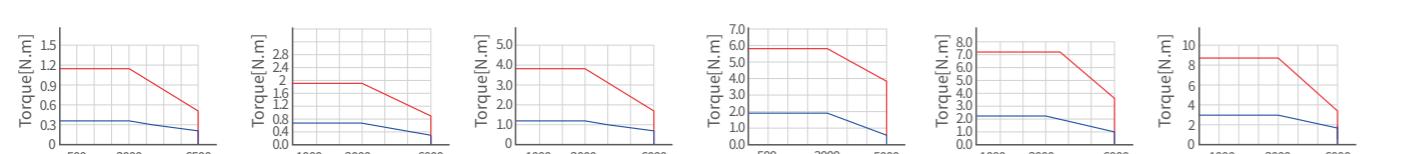
Servo Motor Specifications

100W 200W 400W 600W 750W 900W

Items	Unit	X2MA010A	X2MA020A	X2MA040A	X2MA060E	X2MA075A	X2MA090E
Rated power	W	100	200	400	600	750	900
Rated voltage	V	220	220	220	220	220	220
Fitting flange size	mm	40	60	60	110	80	110
Rated torque	N.m	0.32	0.64	1.27	1.91	2.39	2.86
Instantaneous max. torque	N.m	1.12	1.91	3.82	5.73	7.16	8.6
Rated speed	r/min	3000	3000	3000	3000	3000	3000
	r/min	6500	6000	6000	5000	6000	5000
Max. speed	Note	*1	*1	*1		*1	
*1: The above data is only the theoretical performance of the motor design, so the motor performance may vary according to the different series of servo drives.							
Rated current	Arms	1.2	1.7	2.7	3	4.2	4.5
Instantaneous max. current	Arms	4.6	6.5	10.2	9	17.4	13.5
Moment of inertia	No brake $\times 10^{-4}$ Kg.m 2	0.041	0.16	0.28	3.1	0.96	4.5
	With brake $\times 10^{-4}$ Kg.m 2	0.042	0.17	0.29	4.2	1.07	5.6
Torque constant	N.m/A	0.265	0.427	0.488	0.63	0.583	0.63
Induced voltage constant per phase	mV[r/min]	10.05	14.5	17.9	24.48	21.33	24.52
Rated power rate	No brake KW/S	29.1	25.6	57.6	11.3	59.5	17.1
	With brake KW/S	27.5	24.1	55.6	10.6	53.4	16.4
Mechanical time constant	No brake ms	1.12	0.775	0.561	1.77	0.463	1.98
	With brake ms	1.28	0.824	0.581	1.87	0.516	2.07
Electrical time constant	ms	0.97	6.3	6.1	7.8	12.7	6.78
Phase q-axis/d-axis inductance	mH	8.75/8.04	19/5.6	10.7/7.5	6.35/4.49	7.6/4.9	4.2/2.94
Weight: No brake [with brake]	kg	0.44	0.9 [1.3]	1.28 [1.67]	3.1 [4.4]	2.25 [3.01]	3.7 [5]
Permissible load	Radial load N	68	245	245	392	392	392
	Axial load N	58	98	98	147	147	147
Brake specifications	Rated voltage V	DC24V±10%					
	Rated current A	0.25	0.36	0.36	0.81	0.42	0.81
	Brake power W	7	7.3	7.3	19.5	9.6	19.5
	Static friction torque N.m	0.38 or more	1.6 or more	1.6 or more	12 or more	3.8 or more	12 or more
	Suction time ms	35 or less	50 or less	50 or less	100 or less	70 or less	100 or less
	Release time ms	20 or less	20 or less	20 or less	60 or less	20 or less	60 or less
	Release voltage V	DC1V or more	DC1V or more	DC1V or more	DC1.5V or more	DC1V or more	DC1.5V or more
Note: Holding brake							

Torque characteristics

— Instantaneous operation range — Continuous operation range



X2MA010A ▲

X2MA020A ▲

X2MA040A ▲

X2MA060E ▲

X2MA075A ▲

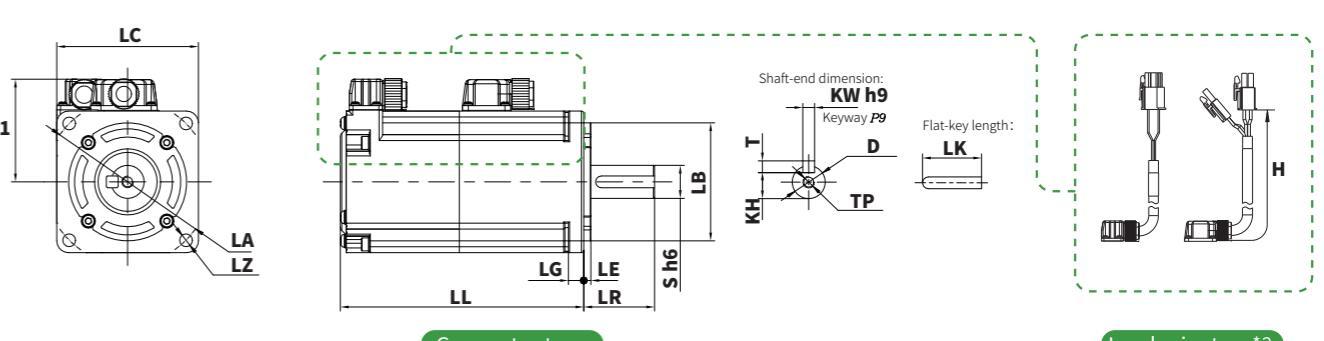
X2MA090E ▲

X2MG-Low-cogging cutting series

External Dimensions for Servo Motor

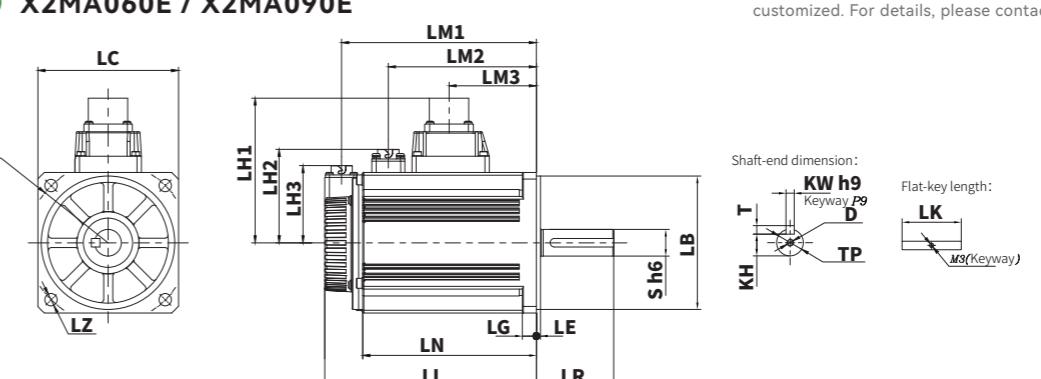
Models	X2MA010A	X2MA020A	X2MA040A	X2MA060E	X2MA075A	X2MA090E
LC	40	60	60	110	80	110
LA	φ46	φ70	φ70	φ130	φ90	φ130
LB	φ30	φ50h7	φ50	φ95h7	φ70	φ95h7
LZ	2-φ4.3	4-φ5.4	4-φ5.4	4-φ9	4-φ6.5	4-φ9
LR	25	30	30	55	35	55
S	φ8 h6	φ14 h6	φ14 h6	φ19 h6	φ19 h6	φ19 h6
LL no brake [with brake]	76.7 [107.1]	73.5 [103]	93.2 [122.7]	108 [135]	105 [138.5]	118 [146]
LN no brake [with brake]	—	—	—	81 [108]	—	91.5 [118.5]
LG	5	6.5	6.5	12	8	12
LE	3	3	3	5	3	5
LM1 no brake [with brake]	—	—	—	96 [123.2]	—	106.5 [133.7]
LM2 no brake [with brake]	—	—	—	[90]	—	[100.5]
LM3	—	—	—	47	—	57
LH1	34.5	44.5	44.5	102	54.5	102
LH2	—	—	—	71.4	—	71.4
LH3	—	—	—	55	—	55
LK	14	25	25	42	25	42
T	3	5	5	6	6	6
KW	3 h9	5 h9	5 h9	6 h9	6 h9	6 h9
KH	6.2	11	11	15.5	15.5	15.5
TP	M3 Depth 6	M5 Depth 12	M5 Depth 12	M5 Depth 12	M5 Depth 10	M5 Depth 12
H type cable length for lead-wire type	210	210	210	—	210	—

Note 2: For X2 series servo motors, the lead-wire types are needed to be customized. For details, please contact our sales department.

X2MA010A / X2MA020A / X2MA040A / X2MA060E / X2MA075A / X2MA090E

Connector type

Lead-wire type*2

X2MA060E / X2MA090E

Note 2: For X2 series servo motors, the lead-wire types are needed to be customized. For details, please contact our sales department.

X2MA-Low inertia

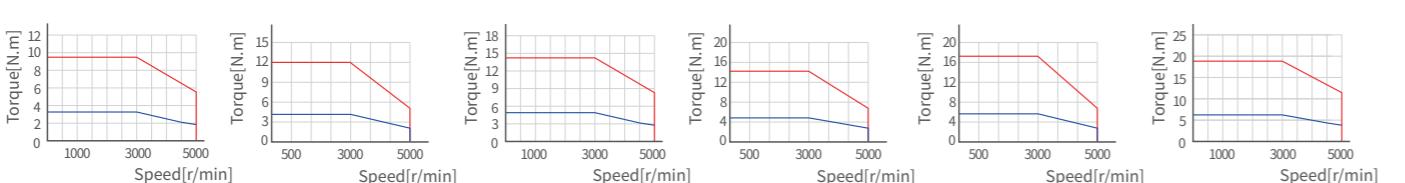
Servo Motor Specifications

1 KW
1.2 KW
1.5 KW
1.8 KW
2 KW

Items	Unit	X2MA100A	X2MA120E	X2MA150A	X2MA150E	X2MA180E	X2MA200A	
Rated power	W	1000	1200	1500	1500	1800	2000	
Rated voltage	V	220	220	220	220	220	220	
Fitting flange size	mm	100	110	100	110	110	100	
Rated torque	N.m	3.18	4	4.77	4.77	5.73	6.37	
Instantaneous max. torque	N.m	9.55	12	14.3	14.3	17.2	19.1	
Rated speed	r/min	3000	3000	3000	3000	3000	3000	
	r/min	5000	5000	5000	5000	5000	5000	
Max. speed								
Rated current	Arms	6.6	6	8.2	7.6	9.5	11.3	
Instantaneous max. current	Arms	28	18	35	24	29	48	
Moment of inertia	x10 ⁻⁴ Kg.m ²	2.03	5.9	2.84	7.3	8.6	3.68	
No brake								
With brake	x10 ⁻⁴ Kg.m ²	2.35	7	3.17	8.4	9.7	4.01	
Torque constant	N.m/A	0.52	0.63	0.628	0.63	0.63	0.607	
Induced voltage constant per phase	mV[r/min]	18.15	23.55	21.92	23.2	24	21.247	
Rated power rate	No brake	KW/S	49.82	23.1	80.12	28	34.7	110.26
	With brake	KW/S	43.03	22.1	71.775	27.3	34	101.19
Mechanical time constant	No brake	ms	0.619	1.5	0.507	1.47	1.38	0.425
	With brake	ms	0.717	1.57	0.566	1.51	1.4	0.463
Electrical time constant	ms	7.22	8.86	8.08	9.35	9.54	9.37	
Phase q-axis/d-axis inductance	mH	—	3.13 [2.18]	—	2.52/1.75	1.86/1.29	—	
Weight: No brake[with brake]	kg	3.5 [4.5]	4.3 [5.6]	4.4 [5.4]	4.95 [6.25]	5.4 [6.7]	5.3 [6.3]	
Permissible load	Radial load	N	392	392	392	392	392	
	Axial load	N	147	147	147	147	147	
	Rated voltage	V	DC24V±10%					
Brake specifications	Rated current	A	0.81±10%	0.81±10%	0.81±10%	0.81	0.81	0.81±10%
Note: Holding brake	Brake power	w	19.5	19.5	19.5	19.5	19.5	19.5
	Static friction torque	N.m	7.8 or more	12 or more	7.8 or more	12 or more	12 or more	7.8 or more
	Suction time	ms	50 or less	100 or less	50 or less	100 or less	100 or less	50 or less
	Release time	ms	15 or less	60 or less	15 or less	60 or less	60 or less	15 or less
	Release voltage	V	DC1V or more	DC1.5V or more	DC1V or more	DC1.5V or more	DC1.5V or more	DC1V or more

Torque characteristics

Instantaneous operation range Continuous operation range



X2MA100A ▲

X2MA120E ▲

X2MA150A ▲

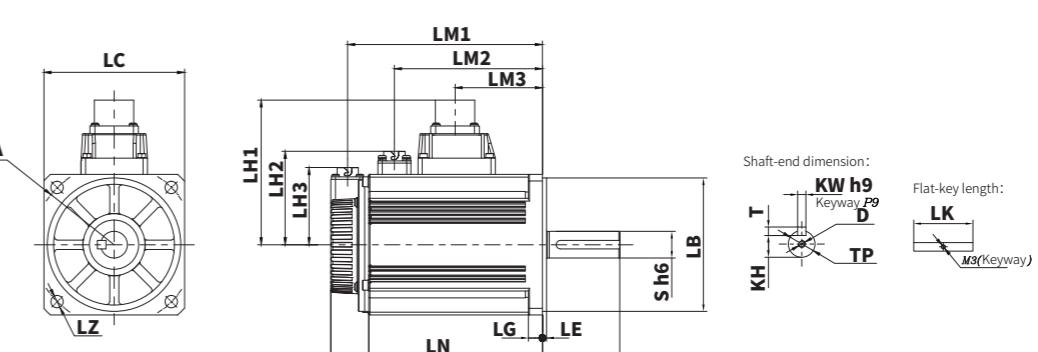
X2MA150E ▲

X2MA180E ▲

X2MA200A ▲

External Dimensions for Servo Motor

Models	X2MA100A	X2MA120E	X2MA150A	X2MA150E	X2MA180E	X2MA200A
LC	100	110	100	110	110	100
LA	φ115	φ130	φ115	φ130	φ130	φ115
LB	φ95h7	φ95h7	φ95	φ95h7	φ95h7	φ95h7
LZ	4-φ9	4-φ9	4-φ9	4-φ9	4-φ9	4-φ9
LR	55	55	55	55	55	55
S	φ19 h6	φ19 h6	φ19 h6	φ19 h6	φ19 h6	φ19 h6
LL no brake [with brake]	123.5 [150.5]	129.5 [157]	142 [169]	140 [167]	150.5 [178]	161 [188]
LN no brake [with brake]	96.5[123.5]	102.5[129.5]	115[142]	113[140]	123.5[150.5]	134[161]
LG	10	12	10	12	12	10
LE	3	5	3	5	5	3
LM1 no brake [with brake]	111.5[138.5]	117.5[144.5]	130[157]	128[155]	138.5[165.5]	149[176]
LM2 no brake [with brake]	[105]	[111.5]	[123.5]	[122]	[132.5]	[142.5]
LM3	62	68	80.5	78.5	89	99.5
LH1	103	102	103	102	102	103
LH2	66	71.4	66.5	71.4	71.5	66.5
LH3	55	55	55	55	55	55
LK	42	42	42	42	42	42
T	6	6	6	6	6	6
KW	6 h9	6 h9	5 h9	6 h9	6 h9	6 h9
KH	15.5	15.5	15.5	15.5	15.5	15.5
TP	M5 Depth 12	M5 Depth 12	M5 Depth 12	M5 Depth 12	M5 Depth 12	M5 Depth 12
H type cable length for lead-wire type	—	—	—	—	—	—

X2MA100A / X2MA120E / X2MA150A / X2MA150E / X2MA180E / X2MA200A

X2MG-Special flange

X2MGS-Low-cogging cutting series

X2MA-Low inertia

X2MM-Middle inertia

X2MMS-Middle inertia

X2MH-High inertia

X2MHH-Ultra high inertia

X2MQ-Special flange

X2MG-Low-speed & high-torque

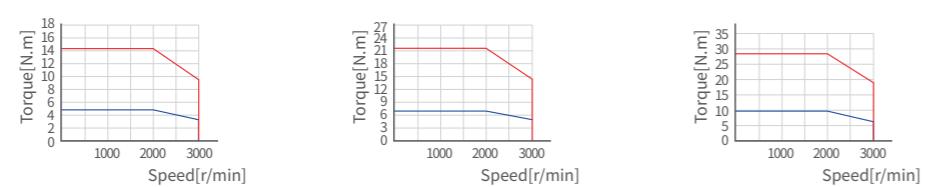
X2MGS-Low-cogging cutting series

Servo Motor Specifications

1 KW
1.5 KW
2 KW

Items	Unit	X2MM100A	X2MM150A	X2MM200A	
Rated power	W	1000	1500	2000	
Rated voltage	V	220	220	220	
Fitting flange size	mm	130	130	130	
Rated torque	N.m	4.77	7.16	9.55	
Instantaneous max. torque	N.m	14.3	21.5	28.6	
Rated speed	r/min	2000	2000	2000	
	r/min	3000	3000	3000	
Max. speed					
Rated current	Arms	5.2	8	9.9	
Instantaneous max. current	Arms	15.6	24	30	
Moment of inertia	$\times 10^{-4} \text{Kg.m}^2$	6.18	9.16	12.1	
No brake					
With brake	$\times 10^{-4} \text{Kg.m}^2$	7.4	10.4	13.3	
Torque constant	N.m/A	0.918	0.895	0.9645	
Induced voltage constant per phase	mV[r/min]	33.65	34.84	37.95	
Rated power rate	No brake	KW/S	36.8	56	75.4
	With brake	KW/S	30.7	49.3	68.6
Mechanical time constant	No brake	ms	1.51	1.16	1.05
	With brake	ms	1.81	1.3	1.16
Electrical time constant	ms	11.1	14.6	15.38	
Phase q-axis/d-axis inductance	mH	8.4/4.3	5.8/2.9	4.9/2.6	
Weight: No brake[with brake]	kg	4.67	5.87[7.47]	6.98[8.58]	
Permissible load	Radial load	N	490	490	490
	Axial load	N	196	196	196
Brake specifications	Rated voltage	V	DC24V±10%		
	Rated current	A	0.9	0.9	0.9
	Brake power	w	22	22	22
Note: Holding brake	Static friction torque	N.m	14 or more	14 or more	14 or more
	Suction time	ms	100 or less	100 or less	100 or less
	Release time	ms	60 or less	60 or less	60 or less
	Release voltage	V	DC1V or more		

Torque characteristics



X2MM100A▲

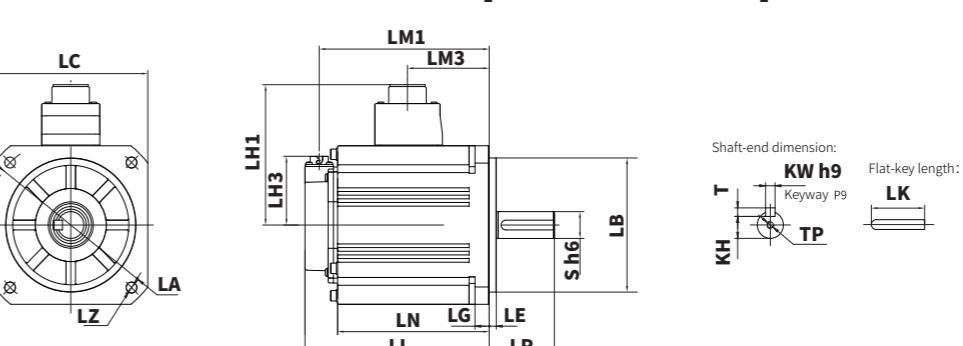
X2MM150A▲

X2MM200A▲

External Dimensions for Servo Motor

Models	X2MM100A-□2L□(Aviation connector)	X2MM150A-□2L□(Aviation connector)	X2MM200A-□2L□(Aviation connector)	Unit(mm)
LC	130	130	130	X2MA-Low inertia
LA	φ145	φ145	φ145	X2MM-Middle inertia
LB	φ110	φ110	φ110	X2MM-Middle inertia
LZ	4-φ9	4-φ9	4-φ9	X2MM-Middle inertia
LR	55	55	55	X2MM-Middle inertia
S	φ22 h6	φ22 h6	φ22 h6	X2MM-Middle inertia
LL no brake [with brake]	107.5 [127.5]	121.5 [141.5]	135.5 [155.5]	X2MMS-Middle inertia high speed series
LN no brake [with brake]	80 [100]	94 [114]	108 [128]	X2MMS-Middle inertia high speed series
LG	12	12	12	X2MH-High inertia
LE	6	6	6	X2MH-High inertia
LH1	115	115	115	X2MH-High inertia
LH3	56.5	56.5	56.5	X2MH-High inertia
LM1 no brake [with brake]	95.5 [115.5]	109.5 [129.5]	123.5 [143.5]	X2MH-High inertia
LM3	41	55	69	X2MH-High inertia
LK	45	45	45	X2MH-High inertia
T	7	7	7	X2MH-High inertia
KW	8 h9	8 h9	8 h9	X2MH-High inertia
KH	18	18	18	X2MH-High inertia
TP	M6 Depth 20	M6 Depth 20	M6 Depth 20	X2MH-High inertia

X2MM100A / X2MM150A / X2MM200A[Aviation connector]



Servo Motor Specifications

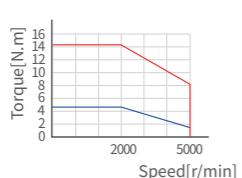
1 KW
1.5 KW
2 KW

Items	Unit	X2MM100S	X2MM150S	X2MM200S	
Rated power	W	1000	1500	2000	
Rated voltage	V	220	220	220	
Fitting flange size	mm	130	130	130	
Rated torque	N.m	4.77	7.16	9.55	
Instantaneous max. torque	N.m	14.31	21.5	28.6	
Rated speed	r/min	2000	2000	2000	
	r/min	5000	5000	5000	
Max. speed					
Rated current	Arms	8.25	9.5	15	
Instantaneous max. current	Arms	25	29	50	
Moment of inertia	$\times 10^{-4} \text{Kg.m}^2$	9.16	12.1	16.85	
No brake					
With brake	$\times 10^{-4} \text{Kg.m}^2$	10.4	13.3	18.05	
Torque constant	N.m/A	0.573	0.672	0.627	
Induced voltage constant per phase	mV[r/min]	21.2	25.9	23	
Rated power rate	No brake With brake	KW/S KW/S	24.84 21.88	42.37 38.55	54.13 50.53
Mechanical time constant	No brake With brake	ms ms	1.24 1.41	1.08 1.18	0.93 1
Electrical time constant	ms	13.3	16.13	13.75	
Phase q-axis/d-axis inductance	mH	2.2/1.1	2.5/1.3	1.1/0.6	
Weight: No brake[with brake]	kg	5.87 [7.47]	6.98 [8.58]	6.91 [10.1]	
Permissible load	Radial load Axial load	N N	490 196	490 196	
Brake specifications	Rated voltage Rated current Brake power Static friction torque	V A W	DC24V±10% 0.9 22	0.9 22	
Note: Holding brake	14 or more 100 or less 60 or less	N.m ms ms	14 or more 100 or less 60 or less	14 or more 100 or less 60 or less	
	Release voltage	V	DC1V or more		

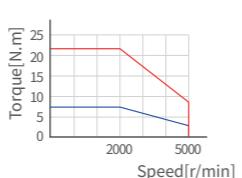
Torque characteristics

Instantaneous operation range

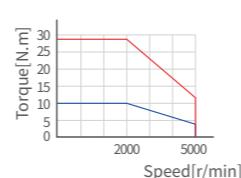
Continuous operation range



X2MM100S ▲



X2MM150S ▲

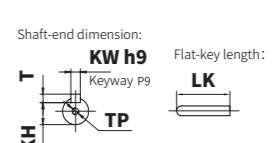
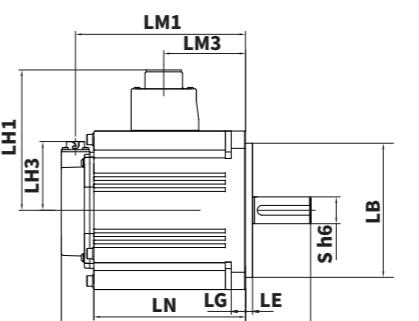
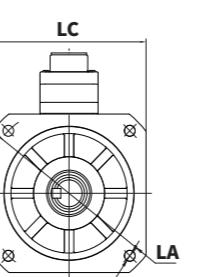


X2MM200S ▲

External Dimensions for Servo Motor

Models	X2MM100S	X2MM150S	X2MM200S
LC	130	130	130
LA	φ145	φ145	φ145
LB	φ110	φ110	φ110
LZ	4-φ9	4-φ9	4-φ9
LR	55	55	55
S	φ22 h6	φ22 h6	φ22 h6
LL no brake [with brake]	121.5 [141.5]	135.5 [155.5]	163.5 [183.5]
LN no brake [with brake]	94 [114]	108 [128]	136 [156]
LG	12	12	12
LE	6	6	6
LM1 no brake [with brake]	109.5 [129.5]	123.5 [143.5]	151.5 [171.5]
LM3	55	69	97
LH1	115	115	115
LH3	56.5	56.5	56.5
LK	45	45	45
T	7	7	7
KW	8 h9	8 h9	8 h9
KH	18	18	18
TP	M6 Depth 20	M6 Depth 20	M6 Depth 20
H type cable length for lead-wire type	—	—	—

X2MM100S / X2MM150S / X2MM200S



X2MA-Low inertia

X2MM-Middle inertia

X2MMS-Middle inertia high-speed series

X2MH-High inertia

X2MHH-Ultra high inertia

X2MQ-Special flange

X2MG-Low-speed &high-torque cutting series

X2MGS-Low-cogging cutting series

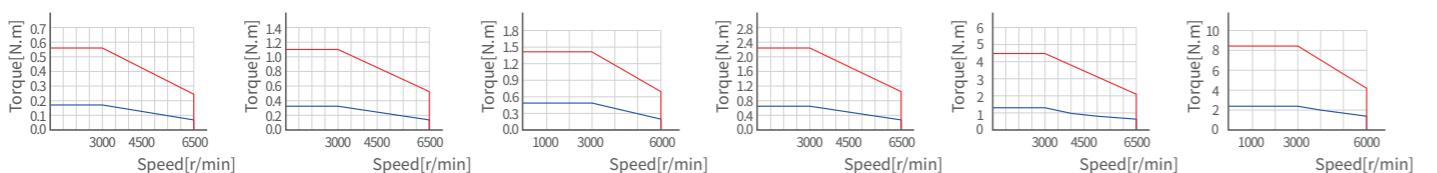
Servo Motor Specifications

50W 100W 150W 200W 400W 750W

Items	Unit	X2MH005A	X2MH010A	X2MH015A	X2MH020A	X2MH040A	X2MH075A
Rated power	W	50	100	150	200	400	750
Rated voltage	V	220	220	220	220	220	220
Fitting flange size	mm	40	40	40	60	60	80
Rated torque	N.m	0.16	0.32	0.477	0.64	1.27	2.39
Instantaneous max. torque	N.m	0.56	1.11	1.43	2.23	4.46	8.36
Rated speed	r/min	3000	3000	3000	3000	3000	3000
	r/min	6500	6500	6000	6500	6500	6000
Max. speed	Note				*1	*1	*1
		*1: The above data is only the theoretical performance of the motor design, so the motor performance may vary according to the different series of servo drives					
Rated current	Arms	1.1	1.1	1.5	1.4	2.1	3.8
Instantaneous max. current	Arms	3.89	3.89	4.5	4.87	7.36	13.3
Moment of inertia	No brake $\times 10^{-4}$ Kg.m ²	0.038	0.071	0.13	0.29	0.56	1.56
	With brake $\times 10^{-4}$ Kg.m ²	0.042	0.074	0.133	0.31	0.58	1.66
Torque constant	N.m/A	0.168	0.327	0.33	0.5	0.67	0.648
Induced voltage constant per phase	mV[r/min]	5	11.1	13.66	14.61	20.85	22.65
Rated power rate	No brake	KW/S	6.7	14.4	17.5	14.1	28.8
	With brake	KW/S	6.1	13.8	17.1	13.2	27.8
Mechanical time constant	No brake	ms	2.6	1.67	1.9	1.57	1.24
	With brake	ms	2.85	1.74	1.94	1.68	1.29
Electrical time constant	ms	0.89	1.1	1.22	2.58	2.97	6.59
Phase q-axis/d-axis inductance	mH	5.1/3.4	9.4/6.3	7.2/4.8	10.2/5.8	9.2/6.5	6/3.3
Weight: No brake[with brake]	kg	0.33[0.55]	0.45 [0.66]	0.6 [0.81]	0.87 [1.27]	1.22[1.61]	2.25 [3.01]
Permissible load	Radial load	N	68	68	68	245	245
	Axial load	N	58	58	58	98	98
Brake specifications	Rated voltage	V	DC24V±10%				
	Rated current	A	0.25	0.25	0.375	0.36	0.36
	Brake power	w	6	6	9	9	10
	Static friction torque	N.m	0.38 or more	0.38 or more	0.58 or more	1.6 or more	1.6 or more
	Suction time	ms	35 or less	35 or less	50 or less	50 or less	70 or less
	Release time	ms	20 or less	20 or less	20 or less	20 or less	20 or less
	Release voltage	V	DC1V or more				
Note: Holding brake							

Torque characteristics

Instantaneous operation range Continuous operation range



X2MH005A▲

X2MH010A▲

X2MH015A▲

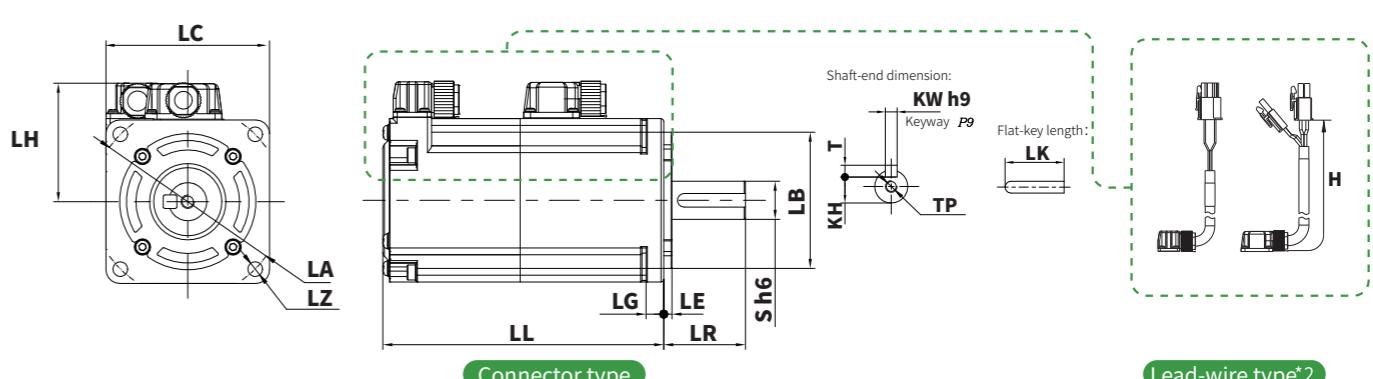
X2MH020A▲

X2MH040A▲

X2MH075A▲

External Dimensions for Servo Motor

Models	X2MH005A	X2MH010A	X2MH015A	X2MH020A	X2MH040A	X2MH075A
LC	40	40	40	60	60	80
LA	φ46	φ46	φ46	φ70	φ70	φ90
LB	φ30	φ30	φ30	φ50	φ50	φ70
LZ	2-φ4.3	2-φ4.3	2-φ4.3	4-φ5.4	4-φ5.4	4-φ6.5
LR	25	25	25	30	30	35
S	φ8 h6	φ8 h6	φ8 h6	φ14 h6	φ14 h6	φ19 h6
LL no brake [with brake]	57 [91]	71 [105]	93.8[127.8]	70.5[100]	87.5 [117]	94.5[128.5]
LG	5	5	5	6.5	6.5	8
LE	3	3	3	3	3	3
LH	35	35	35	44.5	44.5	54.5
LK	14	14	14	25	25	25
T	3	3	3	5	5	6
KW	3 h9	3 h9	3 h9	5 h9	5 h9	6 h9
KH	6.2	6.2	6.2	11	11	15.5
TP	M3 Depth 6	M3 Depth 6	M3 Depth 6	M5 Depth 12	M5 Depth 12	M5 Depth 12
H type cable length for lead-wire type	210	210	210	210	210	210

X2MH005A / X2MH010A / X2MH015A/X2MH020A/X2MH040A/X2MH075A

Note 2: For X2 series servo motors, the lead-wire types are needed to be customized. For details, please contact our sales department.

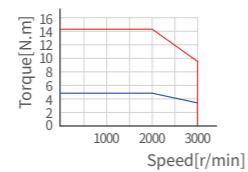
Servo Motor Specifications

1 KW
1.5 KW

Items	Unit	X2MH100A	X2MH150A
Rated power	W	1000	1500
Rated voltage	V	220	220
Fitting flange size	mm	130	130
Rated torque	N.m	4.77	7.16
Instantaneous max. torque	N.m	14.3	21.5
Rated speed	r/min	2000	2000
	r/min	3000	3000
Max. speed			
Rated current	Arms	5.2	8
Instantaneous max. current	Arms	15.6	24
Moment of inertia	$\times 10^{-4} \text{Kg.m}^2$	30.8	38.5
No brake			
With brake	$\times 10^{-4} \text{Kg.m}^2$	32	39.7
Torque constant	N.m/A	0.918	0.895
Induced voltage constant per phase	mV[r/min]	33.65	34.84
Rated power rate	No brake	KW/S	7.39
	With brake	KW/S	7.11
Mechanical time constant	No brake	ms	7.54
	With brake	ms	7.84
Electrical time constant	ms	11.1	14.63
Phase q-axis/d-axis inductance	mH	8.4/4.3	5.8/2.9
Weight: No brake[with brake]	kg	6.4 [8]	7.8[9.4]
Permissible load	Radial load	N	490
	Axial load	N	196
Brake specifications	Rated voltage	V	DC24V±10%
	Rated current	A	0.9
Note: Holding brake	Brake power	w	22
	Static friction torque	N.m	14 or more
	Suction time	ms	100 or less
	Release time	ms	60 or less
	Release voltage	V	DC1V or more

Torque characteristics

— Instantaneous operation range — Continuous operation range



X2MH100A ▲

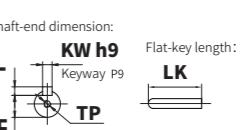
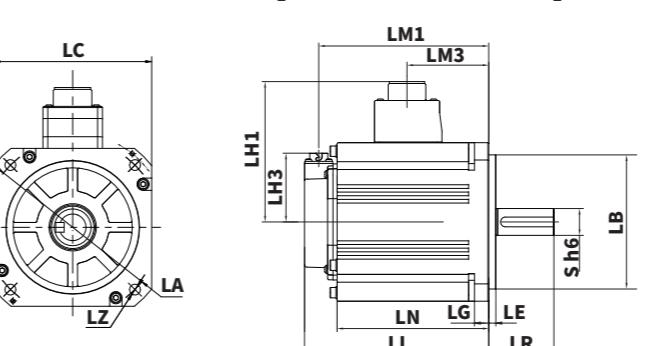


X2MH150A ▲

External Dimensions for Servo Motor

Models	X2MH100A-□2L□(Aviation connector)	X2MH150A-□2L□(Aviation connector)
LC	130	130
LA	φ145	φ145
LB	φ110	φ110
LZ	4-φ9	4-φ9
LR	55	55
S	φ22 h6	φ22 h6
LL no brake [with brake]	135.5[155.5]	149.5 [169.5]
LN no brake [with brake]	108[128]	122[142]
LG	12	12
LE	6	6
LH1	115	115
LH3	56.5	56.5
LM1 no brake [with brake]	123.5 [143.5]	137.5 [157.5]
LM3	69	83
LK	45	45
T	7	7
KW	8 h9	8 h9
KH	18	18
TP	M6 Depth 20	M6 Depth 20

X2MH100A/X2MH150A[Aviation connector]



Unit(mm)

X2MA-Low inertia

X2MM-Middle inertia

X2MMS-Middle inertia high-speed series

X2MH-High inertia

X2MHH-Ultra high inertia

X2MQ-Special flange

X2MG-Low-speed &high-torque cutting series

X2MGS-Low-cogging cutting series

X2 Series Ultra-high Inertia[220V] X2MH□□□H-□2□□

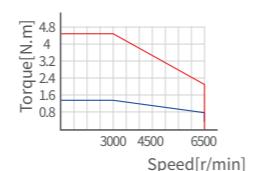
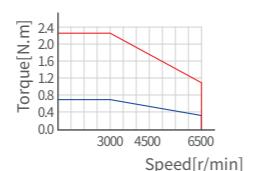
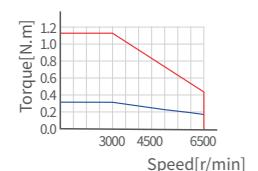
Servo Motor Specifications

100W
200W
400W
750W

Items	Unit	X2MH010H	X2MH020H	X2MH040H	X2MH075H
Rated power	W	100	200	400	750
Rated voltage	V	220	220	220	220
Fitting flange size	mm	40	60	60	80
Rated torque	N.m	0.32	0.64	1.27	2.39
Instantaneous max. torque	N.m	1.11	2.23	4.45	8.36
Rated speed	r/min	3000	3000	3000	3000
	r/min	6500	6500	6500	6000
Max. speed	Note		*1	*1	*1
	*1: The above data is only the theoretical performance of the motor design, so the motor performance may vary according to the different series of servo drives				
Rated current	Arms	0.92	1.4	2.4	3.8
Instantaneous max. current	Arms	3.6	4.87	8.2	18.8
Moment of inertia	No brake $\times 10^{-4}$ Kg.m ²	0.092	0.47	0.73	3.15
	With brake $\times 10^{-4}$ Kg.m ²	0.095	0.49	0.75	3.2
Torque constant	N.m/A	0.347	0.5	0.531	0.648
Induced voltage constant per phase	mV[r/min]	13.3	14.61	20.4	22.65
Rated power rate	No brake KW/S	11.13	8.71	22.09	18.1
	With brake KW/S	10.78	8.36	21.5	17.85
Mechanical time constant	No brake ms	2.23	2.54	1.15	1.95
	With brake ms	2.3	2.65	1.18	1.98
Electrical time constant	ms	0.986	2.58	4.1	6.59
Phase q-axis/d-axis inductance	mH	11.9/8	10.2/5.8	6.9/4.3	6/3.3
Weight: No brake[with brake]	kg	0.44[0.65]	0.95 [1.29]	1.45 [1.85]	2.65 [3.13]
Permissible load	Radial load N	68	245	245	392
	Axial load N	58	98	98	147
Brake specifications	Rated voltage V	DC24V±10%			
	Rated current A	0.25	0.36	0.36	0.42
	Brake power w	6	9	9	10
	Static friction torque N.m	0.38 or more	1.6 or more	1.6 or more	3.8 or more
	Suction time ms	35 or less	50 or less	50 or less	70 or less
	Release time ms	20 or less	20 or less	20 or less	20 or less
Note: Holding brake	Release voltage V	DC1V or more			

Torque characteristics

Instantaneous operation range
Continuous operation range



X2MH010H ▲

X2MH020H ▲

X2MH040H ▲

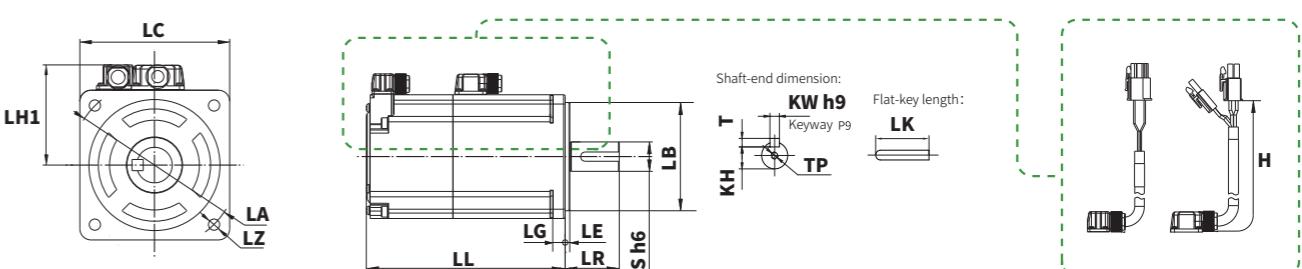
X2MH075H ▲

External Dimensions for Servo Motor

Models	X2MH010H	X2MH020H(lead-wire types)	X2MH040H	X2MH075H(lead-wire types)
LC	40	60	60	80
LA	φ46	φ70	φ70	φ90
LB	φ30	φ50	φ50	φ70
LZ	2-φ4.3	4-φ5.5	4-φ5.5	4-φ6.6
LR	25	30	30	35
S	φ8 h6	φ14 h6	φ14 h6	φ19 h6
LL no brake [with brake]	76.7 [110.7]	82.4 [111.9]	98.5 [128]	122 [167.1]
LG	5	6.5	6.5	8
LE	3	3	3	3
LH1	35	43.5	44.5	53.5
LK	14	25	25	25
T	3	5	5	6
KW	3 h9	5 h9	5 h9	6 h9
KH	6.2	11	11	15.5
TP	M3 Depth 6	M5 Depth 12	M5 Depth 12	M5 Depth 12
H type cable length for lead-wire type	210	210	210	210

Note 2: For X2 series servo motors, the lead-wire types are needed to be customized. For details, please contact our sales department.

X2MH010H / X2MH020H / X2MH040H / X2MH075H



Connector type

Lead-wire type*2

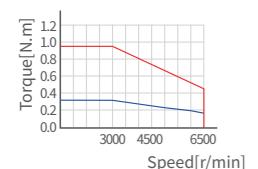
Servo Motor Specifications

100W
200W
400W
1kW

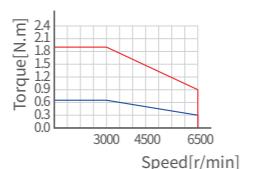
Items	Unit	X2MQ010A	MQ010A-□2K□	X2MQ020A	X2MQ040A	X2MQ100E
Rated power	W	100	100	200	400	1000
Rated voltage	V	220	220	220	220	220
Fitting flange size	mm	60	60	80	80	80
Rated torque	N.m	0.32	0.32	0.637	1.27	3.185
Instantaneous max. torque	N.m	0.96	0.96	1.91	3.82	11.13
Rated speed	r/min	3000	3000	3000	3000	3000
	r/min	6500	6500	6500	6500	6000
Max. speed	Note				*1	*1
		*1: The above data is only the theoretical performance of the motor design, so the motor performance may vary according to the different series of servo drives				
Rated current	Arms	1.15	1.15	2	2.6	5.7
Instantaneous max. current	Arms	3.45	3.45	6.4	8.4	21.2
Moment of inertia	No brake $\times 10^{-4}$ Kg.m ²	0.14	0.14	0.47	0.87	2
	With brake $\times 10^{-4}$ Kg.m ²	0.16	0.16	0.5	0.9	2.1
Torque constant	N.m/A	0.28	0.28	0.318	0.488	0.552
Induced voltage constant per phase	mV[r/min]	10.78	10.78	12.2	19.6	21.2
Rated power rate	No brake KW/S	6.99	6.99	8.63	18.5	50.7
	With brake KW/S	6.64	6.64	8.12	17.92	48.31
Mechanical time constant	No brake ms	2.3	2.3	2.51	1.51	0.85
	With brake ms	2.46	2.46	2.67	1.57	0.897
Electrical time constant	ms	1.66	1.66	3.52	5.41	7.6
Phase q-axis/d-axis inductance	mH	13.63/11.09	13.63/11.09	7.3/3.9	9/4.9	3.8/2.6
Weight: No brake [with brake]	kg	0.57 [0.81]	0.57 [0.81]	1.24 [1.74]	1.6 [2.1]	2.68 [3.45]
Permissible load	Radial load N	68	68	245	245	392
	Axial load N	58	58	98	98	147
Brake specifications	Rated voltage V	DC24V±10%				
	Rated current A	0.9	0.9	0.9	0.9	0.42
	Brake power W	22	22	22	22	10
	Static friction torque N.m	0.38-1.1	0.38-1.1	1.6 or more	1.6 or more	3.8 or more
	Suction time ms	60 or less	60 or less	60 or less	60 or less	70 or less
	Release time ms	40 or less	40 or less	40 or less	40 or less	20 or less
	Release voltage V	DC1.5V or more				DC1V or more
Note: Holding brake						

Torque characteristics

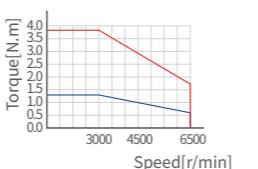
Instantaneous operation range
Continuous operation range



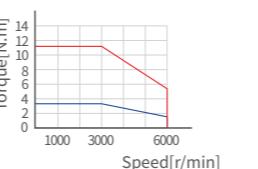
X2MQ010A ▲



X2MQ020A ▲



X2MQ040A ▲

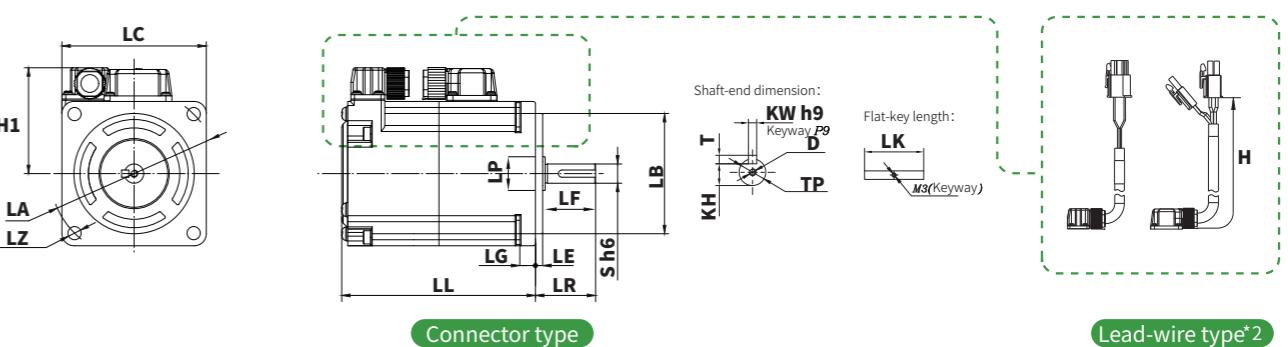


X2MQ100E ▲

External Dimensions for Servo Motor

Models	X2MQ010A(Lead-wire type)	MQ010A-□2K□*3	X2MQ020A(Lead-wire type)	X2MQ040A(Lead-wire type)	X2MQ100E
LC	60	60	80	80	80
LA	φ70	φ70	φ90	φ90	φ90
LB	φ50	φ50	φ70	φ70	φ70
LZ	4-φ5.4	4-φ5.4	4-φ6.5	4-φ6.5	4-φ6.5
LR	25	25	30	30	35
S	φ8 h6	φ8 h6	φ11 h6	φ14 h6	φ19 h6
LL	58.6[78.1]	107.1[76.7]±1	66 [90]	76.8 [100.8]	108 [141.5]
LG	6.5	6.5	8	8	8
LE	3	3	3	3	3
LF	21	21	26	26	—
LP	φ14	φ14	φ19.7	φ19.7	—
LH1	43.5	43.5	53.5	53.5	54.5
LK	14	14	20	22	25
T	3	3	4	5	6
KW	3 h9	3 h9	4 h9	5 h9	6 h9
KH	6.2	6.2	8.5	11	15.5
TP	M3 Depth 6	M3 Depth 6	M4 Depth 8	M5 Depth 12	M5 Depth 12
H type cable length for lead-wire type	210	210	210	210	210

X2MQ010A / X2MQ020A / X2MQ040A / X2MQ100E



Note 2: For X2 series servo motors, the lead-wire types are needed to be customized. For details, please contact our sales department.

*3: MQ010A-□2K□, "K" indicates "Keyway shaft/no oil seal"

X2 Series Low-speed & High-torque[220V] X2MG□□□□-□2□□

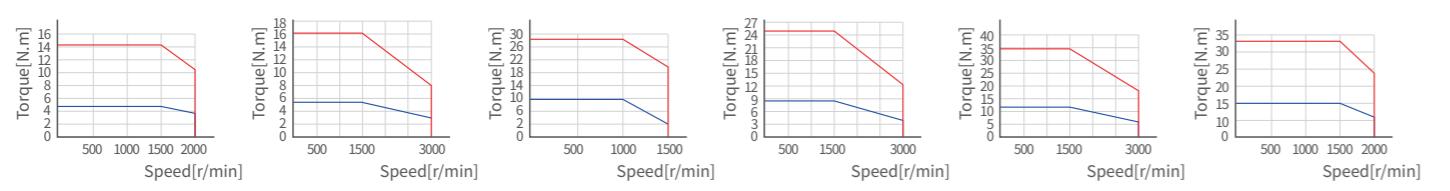
Servo Motor Specifications

750W
850W
1KW
1.3KW
1.8KW
2.3KW

Items	Unit	X2MG075A	X2MG085A	X2MG100A	X2MG130A	X2MG180A	X2MG230A
Rated power	W	750	850	1000	1300	1800	2300
Rated voltage	V	220	220	220	220	220	220
Fitting flange size	mm	80	130	130	130	130	130
Rated torque	N.m	4.77	5.41	9.55	8.28	11.5	15
Instantaneous max. torque	N.m	14.3	16.2	28.6	24.84	34.5	33
Rated speed	r/min	1500	1500	1000	1500	1500	1500
	r/min	2000	3000	1500	3000	3000	2000
Max. speed							
Rated current	Arms	4.2	5.9	5.2	9.3	11.8	12
Instantaneous max. current	Arms	15	18	16	28	35.5	26.4
Moment of inertia	No brake $\times 10^{-4}$ Kg.m ²	2.88	14	12.1	20.2	26	12.7
	With brake $\times 10^{-4}$ Kg.m ²	3	15.2	13.3	21.4	27.2	14.2
Torque constant	N.m/A	1.135	0.918	1.83	0.895	0.964	1.27
Induced voltage constant per phase	mV[r/min]	43.3	33.65	67.3	34.84	40.18	83.08
Rated power rate	No brake KW/S	79	63.29	75.4	33.9	50.87	177
	With brake KW/S	75.84	58.26	68.6	32	48.6	158
Mechanical time constant	No brake ms	1.01	3.43	1.12	2.57	2.06	0.583
	With brake ms	1.05	3.72	1.23	2.72	2.15	0.651
Electrical time constant	ms	5.1	11.1	9.65	14.63	15.99	9.58
Phase q-axis/d-axis inductance	mH	8.4/5.7	8.4/4.3	11/8.7	5.8/2.9	4.9/2.6	-
Weight: No brake [with brake]	kg	3.46[4.14]	5.53 [7.13]	6.91 [8.51]	6.89 [8.49]	8.14 [9.74]	11.4[13]
Permissible load	Radial load N	392	490	490	490	490	490
	Axial load N	147	160	160	160	160	196
Brake specifications	Rated voltage V	DC24V±10%					
Note: Holding brake	Rated current A	0.42	0.9	0.9	0.9	0.9	0.96
	Brake power W	10	22	22	22	22	23
	Static friction torque N.m	3.8 or more	14 or more	14 or more	14 or more	14 or more	20 or more
	Suction time ms	70 or less	100 or less	100 or less	100 or less	100 or less	80 or less
	Release time ms	20 or less	60 or less	60 or less	60 or less	60 or less	40 or less
	Release voltage V	DC1V or more				DC0.5V or more	

Torque characteristics

Instantaneous operation range
Continuous operation range



X2MG-Low-cogging cutting series

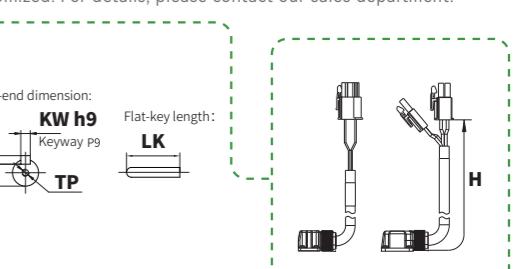
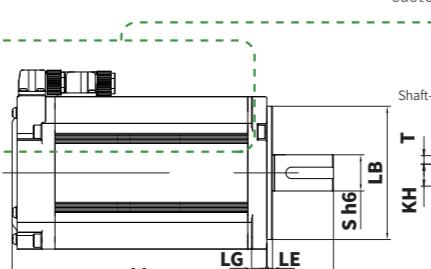
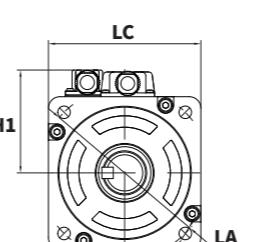
X2MGS-Low-cogging cutting series

External Dimensions for Servo Motor

Models	X2MG075A(Lead-wire type)	X2MG085A	X2MG100A	X2MG130A	X2MG180A	X2MG230A
LC	80	130	130	130	130	130
LA	φ90	φ145	φ145	φ145	φ145	φ145
LB	φ70	φ110	φ110	φ110	φ110	φ110
LZ	4-φ6.6	4-φ9	4-φ9	4-φ9	4-φ9	4-φ9
LR	35	55	55	55	55	55
S	φ19 h6	φ22 h6	φ22 h6	φ22 h6	φ22 h6	φ22 h6
LL no brake [with brake]	134 [177]	135.5 [155.5]	135.5 [155.5]	149.5 [169.5]	163.5 [183.5]	198 [223]
LN no brake [with brake]	—	108 [128]	108 [128]	122 [142]	136 [156]	167 [192]
LG	8	12	12	12	12	12
LE	3	6	6	6	6	6
LM1 no brake [with brake]	—	123.5 [143.5]	123.5 [143.5]	137.5 [157.5]	151.5 [171.5]	186 [211]
LM2 no brake [with brake]	—	—	—	—	—	— [173]
LM3	—	69	69	83	97	127.6
LH1	54	115	115	115	115	118
LH2	—	—	—	—	—	81.5
LH3	—	56.5	56.5	56.5	56.5	58.5
LK	25	45	45	45	45	45
T	6	7	7	7	7	7
KW	6 h9	8 h9	8 h9	8 h9	8 h9	8 h9
KH	15.5	18	18	18	18	18
TP	M5 Depth 12	M6 Depth 20	M6 Depth 20	M6 Depth 20	M6 Depth 20	M6 Depth 20
H type cable length for lead-wire type	210	—	—	—	—	—

Note 1: For X2 series servo motors, the lead-wire types are needed to be customized. For details, please contact our sales department.

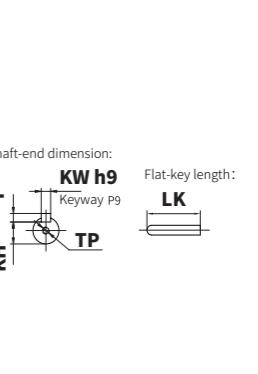
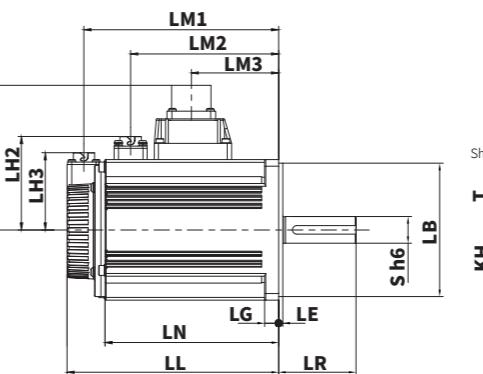
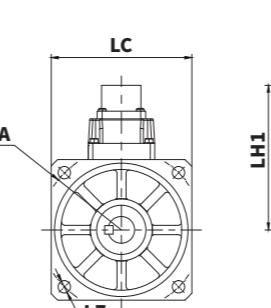
X2MG075A



Connector type

Lead-wire type^{*1}

X2MG085A / X2MG100A / X2MG130A / X2MG180A / X2MG230A



X2MG-Low-speed & high-torque

X2MGS-Low-cogging cutting series

X2MA-Low inertia

X2MM-Middle inertia

X2MMS-Middle inertia

X2MH-High inertia

X2MH-Ultra inertia

X2MGS-Special flange

X2MG-Low-speed & high-torque

X2MGS-Low-cogging cutting series

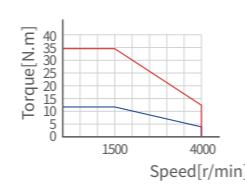
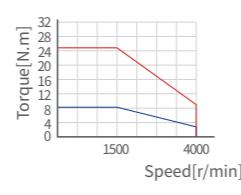
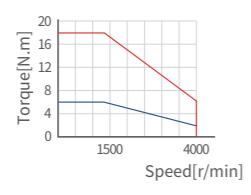
Servo Motor Specifications

850 W
1.3 KW
1.8 KW

Items	Unit	X2MG085S	X2MG130S	X2MG180S
Rated power	W	850	1300	1800
Rated voltage	V	220	220	220
Fitting flange size	mm	130	130	130
Rated torque	N.m	5.39	8.28	11.5
Instantaneous max. torque	N.m	16.2	24.84	34.5
Rated speed	r/min	1500	1500	1500
	r/min	4000	4000	4000
Max. speed				
Rated current	Arms	6.7	9.6	15.6
Instantaneous max. current	Arms	20.1	28.8	46.8
Moment of inertia	$\times 10^{-4} \text{Kg.m}^2$	13.9	19.9	26
No brake				
With brake	$\times 10^{-4} \text{Kg.m}^2$	16	22	28.1
Torque constant	N.m/A	0.859	0.891	0.748
Induced voltage constant per phase	mV[r/min]	31.04	32.08	27
Rated power rate	No brake KW/S	20.9	35	50.9
	With brake KW/S	18.2	31.6	47.1
Mechanical time constant	No brake ms	2.74	2.23	1.95
	With brake ms	3.16	2.46	2.29
Electrical time constant	ms	10.2	10.7	11.14
Phase q-axis/d-axis inductance	mH	—	—	—
Weight: No brake[with brake]	kg	5.5[7.5]	7.1[9]	8.6[11]
Permissible load	Radial load N	490	490	490
	Axial load N	196	196	196
Brake specifications	Rated voltage V	DC24V±10%		
	Rated current A	0.41	0.41	0.41
Note: Holding brake	Brake power W	12	12	12
	Static friction torque N.m	14 or more	14 or more	14 or more
	Suction time ms	100 or less	100 or less	100 or less
	Release time ms	80 or less	80 or less	80 or less
	Release voltage V	DC1V or more		

Torque characteristics

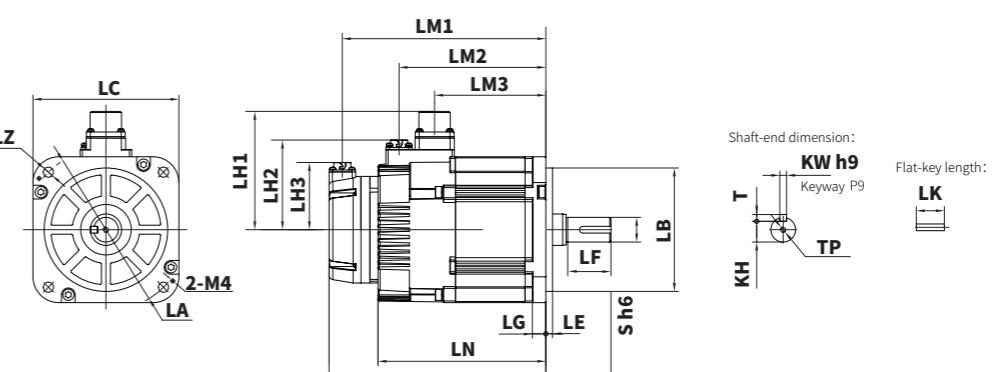
Instantaneous operation range Continuous operation range



External Dimensions for Servo Motor

Models	X2MG085S	X2MG130S	X2MG180S
LC	130	130	130
LA	φ145	φ145	φ145
LB	φ110h7	φ110h7	φ110h7
LZ	4-φ9	4-φ9	4-φ9
LR	58	58	58
S	φ19 h6	φ22 h6	φ24 h6
LL no brake [with brake]	128.5 [146.5]	144.5 [180.5]	162.5 [198.5]
LN no brake [with brake]	97.5 [133.5]	113.5 [149.5]	131.5 [167.5]
LG	12	12	12
LE	6	6	6
LF	40	40	40
LM1 no brake [with brake]	116.5 [152.5]	132.5 [168.5]	150.5 [186.5]
LM2 no brake [with brake]	[114.5]	[130.5]	[148.5]
LM3	83	99	117
LH1	105	105	105
LH2	79.5	79.5	79.5
LH3	54.5	54.5	54.5
LK	25	25	25
T	5	6	7
KW	5 h9	6 h9	8 h9
KH	16	18.5	20
TP	M5 Depth 16	M5 Depth 16	M5 Depth 16

X2MG085S/X2MG130S/X2MG180S



Unit(mm)

X2MA-Low inertia

X2MM-Middle inertia

X2MMS-Middle inertia

X2MH-High inertia

X2MHH-Ultra high inertia

X2MQ-Special flange

X2MG-Low-speed &high-torque

X2MGS-Low-cogging cutting series

X6 Series Servo Motor with high precision optical encoder

220V/380V

23Bit/25Bit^{*1} Absolute

50W-22KW

0.16N.m-140N.m

76 models, and the capacity has been extended to 22KW, which can provide a wider range of power options!

Low-inertia servo motor

Suitable for some occasions with light load and high-speed positioning. Quick response to start, accelerate and stop

MA

Medium/high inertia servo motor

Suitable for occasions with heavy load and high stability requirements.

MM/MH

Ultra-high inertia servo motor

Suitable for the same installation fange. With higher motor inertia, suitable for rollers and low-speed and stable occasions.

MHH

Low-speed and large-torque servo motor

With the characteristics of low rated speed and large output torque, suitable for heavy load occasions.

MG

Flat and special fange servo motor

Under the same power, with different sizes of fange design. The servo motor becomes shorer, but with larger inertia. Also suitable for rollers and low-speed stable occasions.

MQ

Low cogging cutting servo motor

Groove inclination design,which has lower cogging torque and good low-speed characteristics. At the same time, it can reach the maximum speed of 4000RPM with the Y7 series servo drive, which greatly shores the idle travel time and improves the processing efficiency.

MGS

New manufacturing process

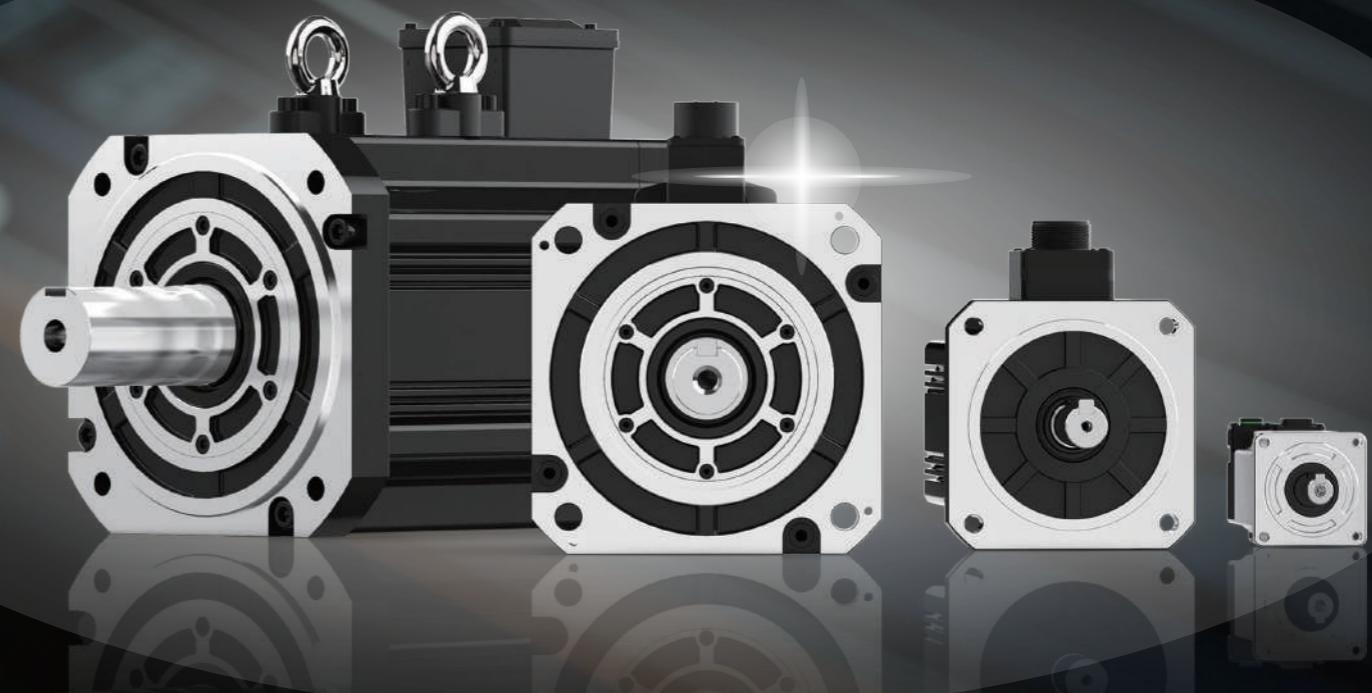
The newly-designed iron-core process makes the sero motor much smaller and lighter, 20% shorer than the previous generation.

New structure design

The integrated structure of the front fange and housing to be stronger, matching with connector-type motor. IP67 protection level.

New rotor design

The new design with 10-pole rotor + magnetic field analysis technology to reduce the width of pulsation and makes it smoother at low speed.



*Note1: X6 series 26Bit high-precision optical encoder motor, will be released in 2023.

SV-X6 MA 040 A - N 2 C D - ***

1

2

3

4

5

6

7

8

Special specifications

1 Series name	
SV-X6series	20BIT(PNXXXX Version)/23BIT

2 Inertia Specifications	
MA	Low inertia
MM	Middle inertia
MMS	Middle inertia & high speed
MH	High inertia
MHH	Ultra high inertia
MQ	Special flange/Flat-type/small flange
MG	Low-speed & high-torque
MGS	Low-cogging cutting

3 Power specification			
005	50W	240	2.4KW
010	100W	290	2.9KW
015	150W	300	3KW
020	200W	400	4KW
040	400W	440	4.4KW
075	750W	500	5KW
085	850W	550	5.5KW
100	1KW	750	7.5KW
130	1.3KW	11K	11KW
150	1.5KW	15K	15KW
180	1.8KW	22K	22KW
200	2KW	37K	37KW ^{*3}

E.g.

23bitabsolute 220v 850W MG High torque at low speed Naming rule SV-X6 MG 085A-N2LD

23bitabsolute 380v 850W MG High torque at low speed Naming rule SV-X6 MG 085A-N4LD

20bitabsolute 380v 850W MG High torque at low speed Naming rule SV-X6 MG085A-N4LA

4 Design number	
A/B/C/S	A: Standard speed B/C/S... Indicates a design sequence different from the standard speed
E/F	Indicates the design sequence of special flange specifications under the same index
H/K	Indicates the design sequence of special inertia

5 Brake specifications	
N	No brake
B	With brake

6 Voltage specifications	
2	AC220V
4	AC380V

7 Specifications	
K	Lead wire type/Keyway shaft/no oil seal
L	Lead wire type/Keyway shaft/with oil seal
C	Connector type/keyway shaft/with oil seal ^{*1}
D	Connector type/keyway shaft/ no oil seal ^{*1}
J	Compact type(customized)

8 Encoder specifications	
D	Multi-turn 23bit absolute
A	Multi-turn 20bit absolute (PNXXXM version) ^{*2}
C	Multi-turn 20bit absolute

9 Customization	
**	N/A

^{*1}: Note 1: From the 2nd quarter of 2021, our company started releasing servo motor with 40~80 flanges as the regular model.

Lead-wire servo motors will be discontinued from December 2021, if still the customized application process is required.

For details, refer to page 123 or consult our sales staff.



^{*2}: The PNXXXM version of the X2 series motor has 20-bit resolution for Y7 drives and 17-bit resolution for other series drives.

^{*3}: To be available in 2024

X6 Series Servo Motor

Series Name	Specifications	50W	100W	200W	400W	600W	750W	900W	1.0KW	1.2KW	1.5KW	1.8KW	2.0KW	3.0KW	4.0kW	5.0KW		
X2-MA Low inertia	Model name		X6MA010A	X6MA020A	X6MA040A	X6MA060E	X6MA075A	X6MA090E	X6MA100A	X6MA120E	X6MA150A	X6MA150E	X6MA180E	X6MA200A	X6MA300K	X6MA400K	X6MA500K	
	Flange		□40	□60	□60	□110	□80	□110	□100	□110	□100	□110	□110	□100	□130	□130	□130	
	Rated [Peak torque]	0.32[1.12]	0.64[1.91]	1.27[3.82]	1.91[5.73]	2.39[7.16]	2.86[8.6]	3.185[9.55]	4[12]	4.77[14.3]	4.77[14.3]	5.73[17.2]	6.37[19.1]	9.55[28.65]	12.7[38.1]	15.9[47.7]		
	Inertia: No brake [with brake]	0.041[0.042]	0.16[0.17]	0.28[0.29]	3.1[4.2]	0.96[1.07]	4.5[5.6]	2.03[2.35]	5.9[7]	2.84[3.17]	7.3[8.4]	8.6[9.7]	3.68[4.01]	10.75[11.95]	14.7[15.9]	20.3[21.5]		
	Rotation speed: Rated [Max. speed]	3000[6500]	3000[6000]	3000[6000]	3000[5000]	3000[6000]	3000[5000]	3000[5000]	3000[5000]	3000[5000]	3000[5000]	3000[5000]	3000[5000]	3000[5000]	3000[5000]	3000[5000]		
	220V	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23		
	380V								20 23	20 23	20 23	20 23	20 23	20 23	20 23	20 23		
Series Name	Specifications	50W	100W	150W	200W	400W	750W	1.0KW	1.5KW	2.0KW	3KW	4KW	5.0KW	7.5KW	NEW 11KW	NEW 15KW	NEW 22KW	
X2-MM Middle inertia	Model name							X6MM100A	X6MM150A	X6MM200A	X6MM300A	X6MM400A	X6MM500A	X6MM750A	X6MM11KA	X6MM15KA	X6MM22KA	
	Flange								□130	□130	□180	□180	□180	□180	□220	□220	□220	
	Rated [Peak torque]								4.77[14.3]	7.16[21.5]	9.55[28.6]	14.3[42.9]	19.1[57.3]	23.9[71.6]	47.8[119.4]	70[175]	96[239]	140[350]
	Inertia: No brake [with brake]								6.18[7.4]	9.16[10.4]	12.1[13.3]	43.5[63.2]	54.7[68]	66.7[80.8]	99.3[114.2]	251.8[314]	327.6[390.7]	481.2[543.8]
	Rotation speed: Rated [Max. speed]								2000[3000]	2000[3000]	2000[3000]	2000[3000]	2000[3000]	2000[3000]	1500[2500]	1500[2000]	1500[2000]	
	220V								23	23	23	23	23	23	23	23		
	380V								20 23	20 23	20 23	20 23	20 23	20 23	23	23	23	
X2-MMS Middle inertia high speed series	Model name							X6MM100S	X6MM150S	X6MM200S								
	Flange								□130	□130	□130							
	Rated [Peak torque]								4.77[14.31]	7.16[21.5]	9.55[28.6]							
	Inertia: No brake [with brake]								9.16[10.4]	12.1[13.3]	16.85[18.05]							
	Rotation speed: Rated [Max. speed]								2000[5000]	2000[5000]	2000[5000]							
	220V								23	23	23							
	380V								20 23	20 23	20 23							
X2-MH High inertia	Model name	X6MH005A	X6MH010A	X6MH015A	X6MH020A	X6MH040A	X6MH075A	X6MH100A	X6MH150A	X6MH200A			X6MH400A					
	Flange	□40	□40	□40	□60	□60	□80	□130	□130	□180			□180					
	Rated [Peak torque]	0.16[0.56]	0.32[1.11]	0.477[1.43]	0.64[2.23]	1.27[4.46]	2.39[8.36]	4.77[14.3]	7.16[21.5]	9.55[28.6]			19.1[57.3]					
	Inertia: No brake [with brake]	0.038[0.042]	0.071[0.074]	0.13[0.133]	0.29[0.31]	0.56[0.58]	1.56[1.66]	30.8[32]	38.5[39.7]	31.4[44.6]			101.7[115]					
	Rotation speed: Rated [Max. speed]	3000[6500]	3000[6500]	3000[6000]	3000[6500]	3000[6500]	3000[6000]	2000[3000]	2000[3000]	2000[3000]			2000[3000]					
	220V	23	23	23	23	23	23	23	23	23								
	380V								20 23	20 23	20 23							
X2-MHH Ultra high inertia	Model name	X6MH010H		X6MH020H	X6MH040H	X6MH075H												
	Flange		□40		□60	□60	□80											
	Rated [Peak torque]	0.32[1.11]		0.64[2.23]	1.27[4.46]	2.39[8.36]												
	Inertia: No brake [with brake]	0.092[0.095]		0.47[0.49]	0.73[0.75]	3.15[1]												
	Rotation speed: Rated [Max. speed]	3000[6500]		3000[6500]	3000[6500]	3000[6000]												
	220V	23		23	23	23												
	380V								20 23	20 23	20 23							
X2-MQ Special flange Flat-type/ small flange	Model name	X6MQ010A		X6MQ020A	X6MQ040A		X6MQ100E											
	Flange		□60		□80	□80		□80										
	Rated [Peak torque]	0.32[0.96]		0.637[1.91]	1.27[3.82]		3.185[11.13]											
	Inertia: No brake [with brake]	0.14[0.16]		0.47[0.5]	0.87[0.9]		2[2.1]											
	Rotation speed: Rated [Max. speed]	3000[6500]		3000[6500]	3000[6500]	3000[6500]		3000[6000]										
	220V	23		23	23	23		23										
	380V								20 23	20 23	20 23							
Series Name	Specifications	750W	1KW	850W	1.3KW	1.5KW	1.8KW	2.4KW	2.9KW	4.4KW	5.5KW							
X2-MG Low-speed & high-torque	Model name	X6MG075A	X6MG100A	X6MG085A	X6MG130A	X6MG150C	X6MG180A	X6MG240A	X6MG290A	X6MG440A	X6MG550A							
	Flange		□80		□130	□130	□130	□130	□180	□180	□180							
	Rated [Peak torque]	4.77[14.3]	9.55[28.6]	5.41[16.2]	8.28[24.84]	14.3[42]	11.5[34.5]	15.2[45.8]	18.6[46.5]	28[71.1]	35[87.5]							
	Inertia: No brake [with brake]	2.88[3]	12.1[13.3]	14[15.2]	20.2[21.4]	20.8[22]	26[27.2]	31.3[32.5]	47.2[62.3]	68.6[83.7]	91.4[106.5]							
	Rotation speed: Rated [Max. speed]	1500[2000]	1000[1500]	1500[3000]	1500[3000]	1000[1500]	1500[3000]	1500[3000]	1500[3000]	1500[3000]	1500[3000]							
	220V	23		23	23	23		23	20 23	20 23	20 23							
	380V				20													

X2MA-Low inertia

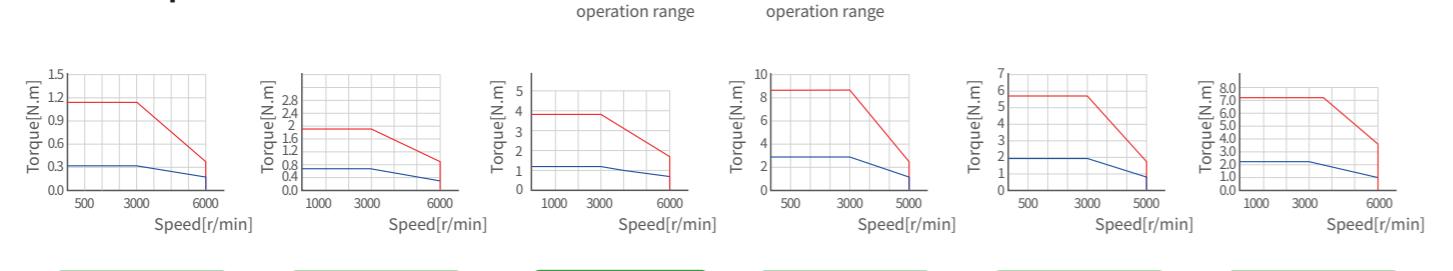
Servo Motor Specifications



Items	Unit	X6MA010A	X6MA020A	X6MA040A	X6MA060E	X6MA075A	X6MA090E
Rated power	W	100	200	400	600	750	900
Rated voltage	V	220	220	220	220	220	220
Fitting flange size	mm	40	60	60	110	80	110
Rated torque	N.m	0.32	0.64	1.27	1.91	2.39	2.86
Instantaneous max. torque	N.m	1.12	1.91	3.82	5.73	7.16	8.6
Rated speed	r/min	3000	3000	3000	3000	3000	3000
Max. speed	r/min	6500	6000	6000	5000	6000	5000
Rated current	Arms	1.2	1.7	2.7	3	4.2	4.5
Instantaneous max. current	Arms	4.6	6.5	10.2	9	17.4	13.5
Moment of inertia	No brake $\times 10^{-4}$ Kg.m 2	0.041	0.16	0.28	3.1	0.96	4.5
	With brake $\times 10^{-4}$ Kg.m 2	0.042	0.17	0.29	4.2	1.07	5.6
Torque constant	N.m/A	0.265	0.427	0.488	0.63	0.583	0.63
Induced voltage constant per phase	mV[r/min]	10.05	14.5	17.9	24.48	21.33	24.52
Rated power rate	No brake KW/S	29.1	25.6	57.6	11.3	59.5	17.1
	With brake KW/S	27.5	24.1	55.6	10.6	53.4	16.4
Mechanical time constant	No brake ms	1.12	0.775	0.561	1.77	0.463	1.98
	With brake ms	1.28	0.824	0.581	1.87	0.516	2.07
Electrical time constant	ms	0.97	6.3	6.1	7.8	12.7	6.78
Phase q-axis/d-axis inductance	mH	8.75/8.04	19/5.6	10.7/7.5	6.35/4.49	7.6/4.9	4.2/2.94
Weight: No brake[with brake]	kg	0.44 [0.65]	0.9 [1.3]	1.28 [1.67]	3.1 [4.4]	2.25 [3.01]	3.7 [5]
Permissible load	Radial load N	68	245	245	392	392	392
	Axial load N	58	98	98	147	147	147
	Rated voltage V				DC24V±10%		
	Rated current A	0.25	0.36	0.36	0.81	0.42	0.81
Brake specifications	Brake power w	7	7.3	7.3	19.5	9.6	19.5
Note: Holding brake	Static friction torque N.m	0.38 or more	1.6 or more	1.6 or more	12 or more	3.8 or more	12 or more
	Suction time ms	35 or less	50 or less	50 or less	100 or less	70 or less	100 or less
	Release time ms	20 or less	20 or less	20 or less	60 or less	20 or less	60 or less
	Release voltage V	DC1V or more	DC1V or more	DC1V or more	DC1.5V or more	DC1V or more	DC1.5V or more

X2MQ-Special flange

Torque characteristics

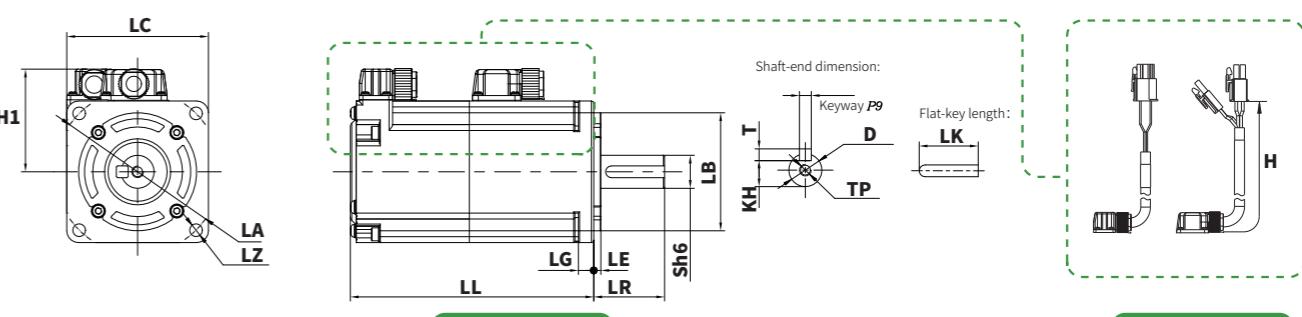


X2MG-Low-cogging cutting series

External Dimensions for Servo Motor

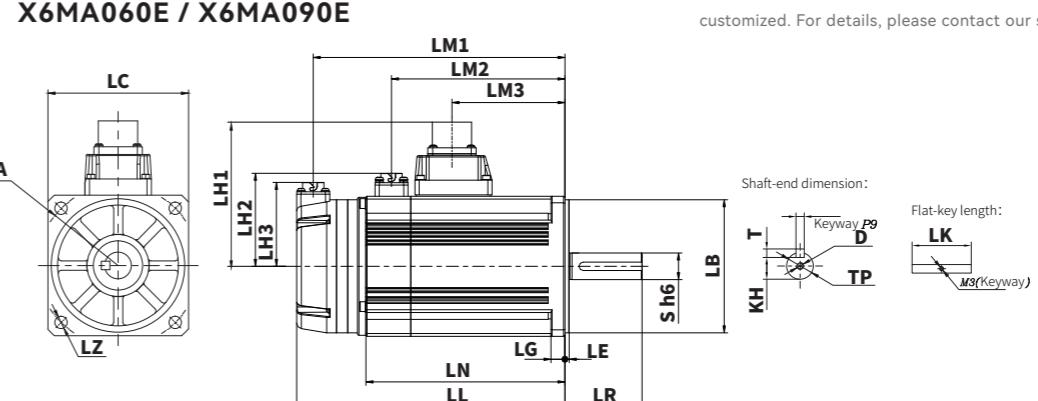
Models	X6MA010A	X6MA020A	X6MA040A	X6MA060E	X6MA075A	X6MA090E
LC	40	60	60	130	80	110
LA	φ46	φ70	φ70	φ95	φ60	φ130
LB	φ30	φ50	φ50	φ70	φ70	φ95h7
LZ	2-φ4.3	4-φ5.4	4-φ5.4	4-φ9	4-φ6	4-φ9
LR	25	30	30	55	35	55
S	φ8 h6	φ14 h6	φ14 h6	φ19 h6	φ19 h6	φ19 h6
LL no brake [with brake]	76.7 [107.1]	73.5 [103]	93.2 [122.7]	130.5 [157.5]	105 [138.5]	141 [168]
LN no brake [with brake]	—	—	—	81 [108]	—	91.5 [118.5]
LG	5	6.5	6.5	12	8	12
LE	3	3	3	5	3	5
LM1 no brake [with brake]	—	—	—	118.5 [145.5]	—	129 [156]
LM2 no brake [with brake]	—	—	—	[90]	—	[100.5]
LM3	—	—	—	47	—	57
LH1	34.5	44.5	44.5	102	54.5	102
LH2	—	—	—	71.5	—	71.4
LH3	—	—	—	60	—	60
LK	14	25	25	42	25	42
T	3	5	5	6	6	6
KW	3 h9	5 h9	5 h9	6 h9	6 h9	6 h9
KH	6.2	11	11	15.5	15.5	15.5
TP	M3 Depth 6	M5 Depth 12	M5 Depth 12	M5 Depth 12	M5 Depth 12	M5 Depth 12
H type cable length for lead-wire type	210	210	210	—	210	—

X6MA010A / X6MA020A / X6MA040A / X6MA060E / X6MA075A / X6MA090E



*1: For X6 series servo motors, the lead-wire types are needed to be customized. For details, please contact our sales department.

X6MA060E / X6MA090E



X2MA-Low inertia

X2MM-Middle inertia

X2MMS-Middle inertia

X2MH-High inertia

X2MHH-Ultra high inertia

X2MQ-Special flange

X2MG-Low-speed &high-torque cutting series

X2MA-Low inertia

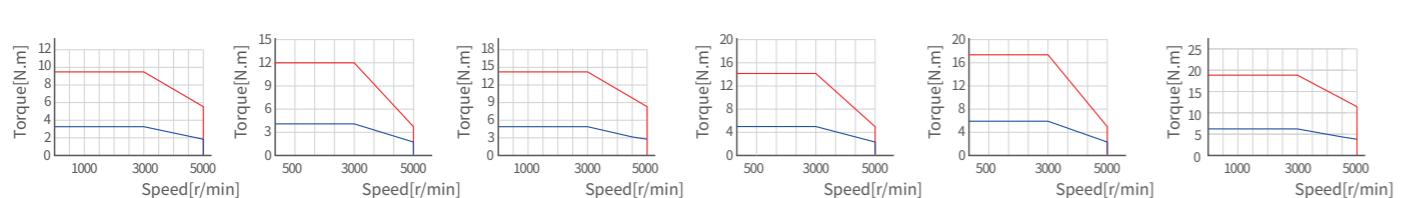
Servo Motor Specifications

1 KW 1.2 KW 1.5 KW 1.8 KW 2 KW

Items	Unit	X6MA100A	X6MA120E	X6MA150A	X6MA150E	X6MA180E	X6MA200A
Rated power	W	1000	1200	1500	1500	1800	2000
Rated voltage	V	220	220	220	220	220	220
Fitting flange size	mm	100	110	100	110	110	100
Rated torque	N.m	3.18	4	4.77	4.77	5.73	6.37
Instantaneous max. torque	N.m	9.55	12	14.3	14.3	17.2	19.1
Rated speed	r/min	3000	3000	3000	3000	3000	3000
Max. speed	r/min	5000	5000	5000	5000	5000	5000
Rated current	Arms	6.6	6	8.2	7.6	9.5	11.3
Instantaneous max. current	Arms	28	18	35	24	29	48
Moment of inertia	No brake $\times 10^{-4}$ Kg.m 2	2.03	5.9	2.84	7.3	8.6	3.68
	With brake $\times 10^{-4}$ Kg.m 2	2.35	7	3.17	8.4	9.7	4.01
Torque constant	N.m/A	0.52	0.63	0.628	0.63	0.63	0.607
Induced voltage constant per phase	mV[r/min]	18.15	23.55	21.92	23.2	24	21.247
Rated power rate	No brake KW/S	49.82	23.1	80.12	28	34.7	110.26
	With brake KW/S	43.03	22.1	71.775	27.3	34	101.19
Mechanical time constant	No brake ms	0.619	1.5	0.507	1.47	1.38	0.425
	With brake ms	0.717	1.57	0.566	1.51	1.4	0.463
Electrical time constant	ms	7.22	8.86	8.08	9.35	9.54	9.37
Phase q-axis/d-axis inductance	mH	—	3.13/2.18	—	2.52/1.75	1.86/1.29	—
Weight: No brake[with brake]	kg	3.5 [4.5]	4.3 [5.6]	4.4 [5.4]	4.95 [6.25]	5.4 [6.7]	5.3 [6.3]
Permissible load	Radial load N	392	392	392	392	392	392
	Axial load N	147	147	147	147	147	147
	Rated voltage V				DC24V±10%		
	Rated current A	0.81±10%	0.81	0.81±10%	0.81	0.81	0.81±10%
Brake specifications	Brake power w	20	19.5	20	19.5	19.5	20
Note: Holding brake	Static friction torque N.m	7.8 or more	12 or more	7.8 or more	12 or more	12 or more	7.8 or more
	Suction time ms	50 or less	100 or less	50 or less	100 or less	100 or less	50 or less
	Release time ms	15 or less	60 or less	15 or less	60 or less	60 or less	15 or less
	Release voltage V	DC1V or more	DC1.5V or more	DC1V or more	DC1.5V or more	DC1.5V or more	DC1V or more

X2MQ-Special flange

Torque characteristics



X6MA100A ▲

X6MA120E ▲

X6MA150A ▲

X6MA150E ▲

X6MA180E ▲

X6MA200A ▲

X2MG-Low-cogging cutting series

External Dimensions for Servo Motor

Models	X6MA100A	X6MA120E	X6MA150A	X6MA150E	X6MA180E	X6MA200A
LC	100	110	100	110	110	100
LA	φ115	φ130	φ115	φ130	φ130	φ115
LB	φ95	φ95	φ95	φ95	φ95	φ95
LZ	4-φ9	4-φ9	4-φ9	4-φ9	4-φ9	4-φ9
LR	55	55	55	55	55	55
S	φ19 h6	φ19 h6	φ19 h6	φ19 h6	φ19 h6	φ19 h6
LL no brake [with brake]	123.5 [150.5]	152 [179]	142 [169]	163 [190]	173 [200]	183.5 [210.5]
LN no brake [with brake]	96.5 [123.5]	102.5 [129.5]	115 [142]	113 [140]	123.5 [150.5]	134 [161]
LG	10	12	10	12	12	10
LE	3	5	3	5	5	3
LM1 no brake [with brake]	111.5 [138.5]	152 [167]	130 [157]	151 [178]	161 [188]	171.5 [198.5]
LM2 no brake [with brake]	— [105]	— [111.5]	— [123.5]	— [122]	— [132.5]	— [142.5]
LM3	62	68	80.5	78.5	89	99.5
LH1	103	102	103	102	102	103
LH2	66	71.4	66.5	71.4	71.5	66.5
LH3	55	60	55	60	60	60
LK	42	42	42	42	42	42
T	6	6	6	6	6	6
KW	6 h9	6 h9	6 h9	6 h9	6 h9	6 h9
KH	15.5	15.5	15.5	15.5	15.5	15.5
TP	M5 Depth 12	M5 Depth 12	M5 Depth 12	M5 Depth 12	M5 Depth 12	M5 Depth 12
H type cable length for lead-wire type	—	—	—	—	—	—

X2MA-Low inertia

X2MM-Middle inertia

X2MMS-Middle inertia

X2MH-High inertia

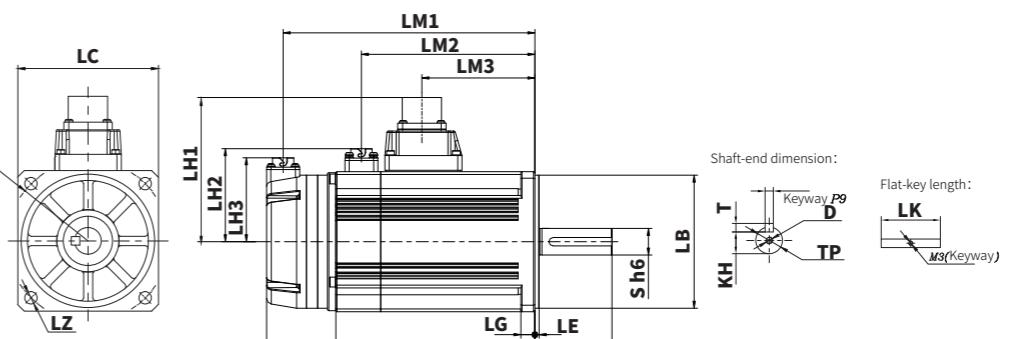
X2MHH-Ultra high inertia

X2MQ-Special flange

X2MG-Low-speed &high-torque

X2MGS-Low-cogging cutting series

▼ X6MA100A / X6MA120E / X6MA150A / X6MA150E / X6MA180E / X6MA200A



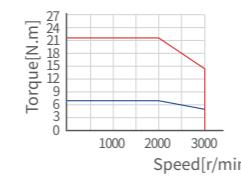
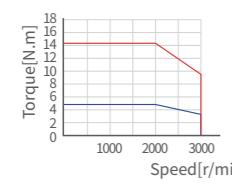
X2MA-Low inertia

Servo Motor Specifications1 KW
1.5 KW
2 KW

Items	Unit	X6MM100A	X6MM150A	X6MM200A
Rated power	W	1000	1500	2000
Rated voltage	V	220	220	220
Fitting flange size	mm	130	130	130
Rated torque	N.m	4.77	7.16	9.55
Instantaneous max. torque	N.m	14.3	21.5	28.6
Rated speed	r/min	2000	2000	2000
Max. speed	r/min	3000	3000	3000
Rated current	Arms	5.2	8	9.9
Instantaneous max. current	Arms	15.6	24	30
Moment of inertia	No brake $\times 10^{-4}$ Kg.m ²	6.18	9.16	12.1
	With brake $\times 10^{-4}$ Kg.m ²	7.4	10.4	13.3
Torque constant	N.m/A	0.918	0.895	0.9645
Induced voltage constant per phase	mV[r/min]	33.65	34.84	37.95
Rated power rate	No brake KW/S	36.8	56	75.4
	With brake KW/S	30.7	49.3	68.6
Mechanical time constant	No brake ms	1.51	1.16	1.05
	With brake ms	1.81	1.3	1.16
Electrical time constant	ms	11.1	14.6	15.38
Phase q-axis/d-axis inductance	mH	8.4/4.3	5.8/2.9	4.9/2.6
Weight: No brake[with brake]	kg	4.9[6.5]	6.1[7.7]	7.21[8.81]
Permissible load	Radial load N	490	490	490
	Axial load N	196	196	196
	Rated voltage V	DC24V±10%		
	Rated current A	0.9	0.9	0.9
Brake specifications	Brake power W	22	22	22
Note: Holding brake	Static friction torque N.m	14 or more	14 or more	14 or more
	Suction time ms	100 or less	100 or less	100 or less
	Release time ms	60 or less	60 or less	60 or less
	Release voltage V	DC1V or more		

Torque characteristics

Instantaneous operation range Continuous operation range



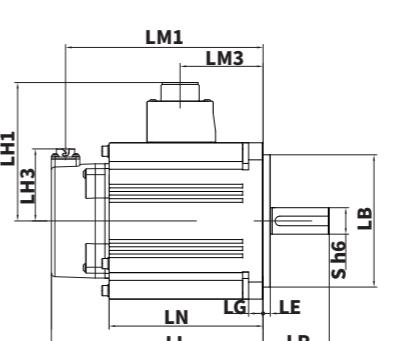
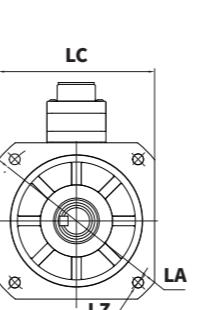
X6MM100A▲

X6MM150A▲

X6MM200A▲

External Dimensions for Servo Motor

Models	X6MM100A	X6MM150A	X6MM200A
LC	130	130	130
LA	φ145	φ145	φ145
LB	φ110	φ110	φ110
LZ	4-φ9	4-φ9	4-φ9
LR	55	55	55
S	φ22 h6	φ22 h6	φ22 h6
LL no brake [with brake]	128 [148]	142 [162]	156 [176]
LN no brake [with brake]	80 [100]	94 [114]	108 [128]
LG	12	12	12
LE	6	6	6
LM1 no brake [with brake]	116.2 [136.2]	130.2 [150.2]	144.2 [164.2]
LM3	41	55	69
LH1	115	115	115
LH3	60	60	60
LK	45	45	45
T	7	7	7
KW	8 h9	8 h9	8 h9
KH	18	18	18
TP	M6 Depth 20	M6 Depth 20	M6 Depth 20

X6MM100A / X6MM150A / X6MM200A

Shaft-end dimension:
KW h9
Keyway P9

Flat-key length:
LK

X2MA-Low inertia

X2MM-Middle inertia

X2MMS-Middle inertia high-speed series

X2MH-High inertia

X2MHH-Ultra high inertia

X2MQ-Special flange

X2MG-Low-speed &high-torque cutting series

X2MGS-Low-cogging cutting series

X2MG-Low-cogging cutting series

X2MA-Low inertia

X2MM-Middle inertia

X2MHS-High inertia

X2MHH-Ultra high inertia

X2MQ-Special flange

X2MG-Low-speed &high-torque cutting series

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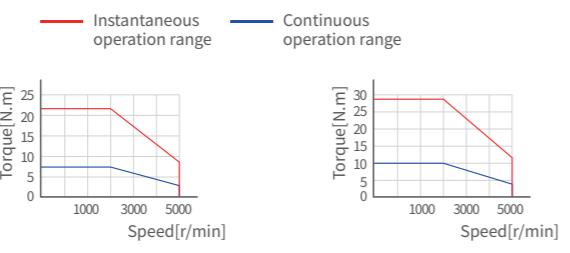
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Servo Motor Specifications

1 KW
1.5 KW
2 KW

Items	Unit	X6MM100S	X6MM150S	X6MM200S
Rated power	W	1000	1500	2000
Rated voltage	V	220	220	220
Fitting flange size	mm	130	130	130
Rated torque	N.m	4.77	7.16	9.55
Instantaneous max. torque	N.m	14.31	21.5	28.6
Rated speed	r/min	2000	2000	2000
Max. speed	r/min	5000	5000	5000
Rated current	Arms	8.25	9.5	15
Instantaneous max. current	Arms	25	29	50
Moment of inertia	No brake $\times 10^{-4}$ Kg.m ²	9.16	12.1	16.85
	With brake $\times 10^{-4}$ Kg.m ²	10.4	13.3	18.05
Torque constant	N.m/A	0.573	0.672	0.627
Induced voltage constant per phase	mV[r/min]	21.2	25.9	23
Rated power rate	No brake KW/S	24.84	42.37	54.13
	With brake KW/S	21.88	38.55	50.53
Mechanical time constant	No brake ms	1.24	1.08	0.93
	With brake ms	1.41	1.18	1
Electrical time constant	ms	13.3	16.13	13.75
Phase q-axis/d-axis inductance	mH	2.2/1.1	2.5/1.3	1.1/0.6
Weight: No brake[with brake]	kg	6.1[7.7]	7.21[8.81]	7.14[10.33]
Permissible load	Radial load N	490	490	490
	Axial load N	196	196	196
	Rated voltage V	DC24V±10%		
	Rated current A	0.9	0.9	0.9
Brake specifications	Brake power w	21.5	21.5	21.5
Note: Holding brake	Static friction torque N.m	14 or more	14 or more	14 or more
	Suction time ms	100 or less	100 or less	100 or less
	Release time ms	60 or less	60 or less	60 or less
	Release voltage V	DC1V or more		

Torque characteristics



X6MM100S▲

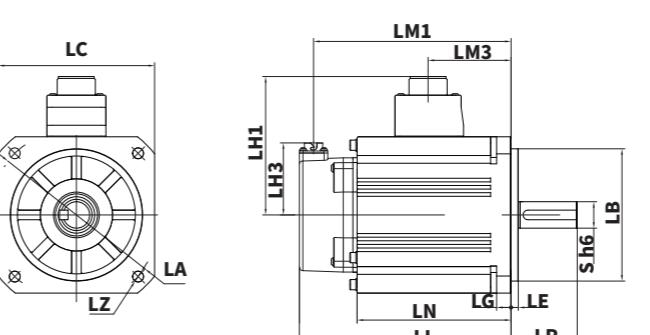
X6MM150S▲

X6MM200S▲

External Dimensions for Servo Motor

Models	X6MM100S	X6MM150S	X6MM200S
LC	130	130	130
LA	φ145	φ145	φ145
LB	φ110	φ110	φ110
LZ	4-φ9	4-φ9	4-φ9
LR	55	55	55
S	φ22 h6	φ22 h6	φ22 h6
LL no brake [with brake]	142 [162]	156 [176]	184 [204]
LN no brake [with brake]	94 [114]	108 [128]	136 [156]
LG	12	12	12
LE	6	6	6
LM1 no brake [with brake]	130.2 [150.2]	144.2 [164.2]	172.2 [192.2]
LM3	55	69	97
LH1	115	115	115
LH3	60	60	60
LK	45	45	45
T	7	7	7
KW	8 h9	8 h9	8 h9
KH	18	18	18
TP	M6 Depth 20	M6 Depth 20	M6 Depth 20

X6MM100S/X6MM150S/X6MM200S



Shaft-end dimension:
KW h9
Keyway pg

Flat-key length:
LK

X2MA-Low inertia

X2MM-Middle inertia

X2MMS-Middle inertia high-speed series

X2MH-High inertia

X2MHH-Ultra high inertia

X2MG-Low-speed &high-torque cutting series

X2MGS-Low-cogging cutting series

Servo Motor Specifications

50W 100W 150W 200W

Items	Unit	X6MH005A	X6MH010A	X6MH015A	X6MH020A*2
Rated power	W	50	100	150	200
Rated voltage	V	220	220	220	220
Fitting flange size	mm	40	40	40	60
Rated torque	N.m	0.16	0.32	0.477	0.64
Instantaneous max. torque	N.m	0.56	1.11	1.43	2.23
Rated speed	r/min	3000	3000	3000	3000
Max. speed	r/min	6500	6500	6000	6500
Rated current	Arms	1.1	1.1	1.5	1.4
Instantaneous max. current	Arms	3.89	3.89	4.5	4.87
Moment of inertia	No brake $\times 10^{-4}$ Kg.m ²	0.038	0.071	0.13	0.29
	With brake $\times 10^{-4}$ Kg.m ²	0.042	0.074	0.133	0.31
Torque constant	N.m/A	0.168	0.327	0.33	0.5
Induced voltage constant per phase	mV[r/min]	5	11.1	13.66	14.61
Rated power rate	No brake KW/S	6.7	14.4	17.5	14.1
	With brake KW/S	6.1	13.8	17.1	13.2
Mechanical time constant	No brake ms	2.6	1.67	1.9	1.57
	With brake ms	2.85	1.74	1.94	1.68
Electrical time constant	ms	0.89	1.1	1.22	2.58
Phase q-axis/d-axis inductance	mH	5.1/3.4	9.4/6.3	7.2/4.8	10.2/5.8
Weight: No brake[with brake]	kg	0.33 [0.55]	0.45 [0.66]	0.6[0.81]	0.87 [1.27]
Permissible load	Radial load N	68	68	68	245
	Axial load N	58	58	58	98
	Rated voltage V	DC24V±10%			
	Rated current A	0.25	0.25	0.375	0.36
Brake specifications	Brake power W	6	6	9	9
Note: Holding brake	Static friction torque N.m	0.38 or more	0.38 or more	0.58 or more	1.6 or more
	Suction time ms	35 or less	35 or less	50 or less	50 or less
	Release time ms	20 or less	20 or less	20 or less	20 or less
	Release voltage V	DC1V or more			

Torque characteristics



X6MH005A▲

X6MH010A▲

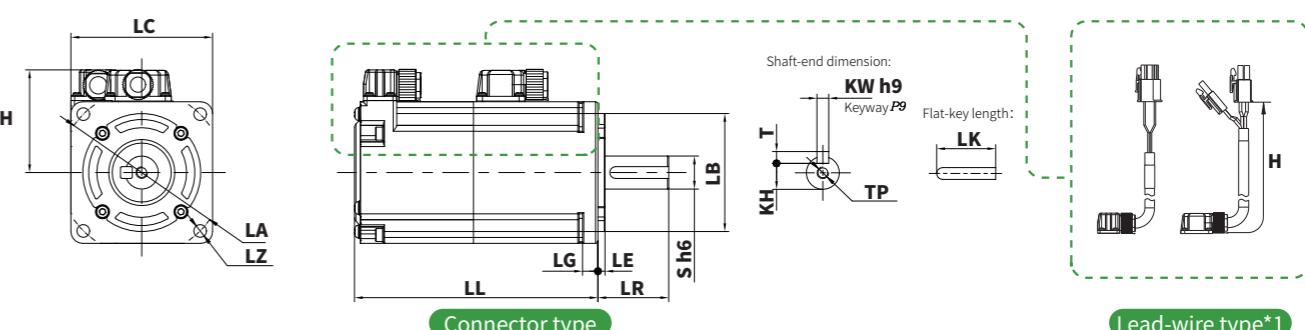
X6MH015A▲

X6MH020A▲

External Dimensions for Servo Motor

Models	X6MH005A	X6MH010A	X6MH015A	X6MH020A*2
LC	40	40	40	60
LA	φ46	φ46	φ46	φ70
LB	φ30	φ30	φ30	φ50
LZ	2-φ4.3	2-φ4.3	2-φ4.3	4-φ5.4
LR	25	25	25	30
S	φ8 h6	φ8 h6	φ8 h6	φ14 h6
LL no brake [with brake]	57 [91]	71 [105]	93.8 [127.8]	70.5 [100]
LG	5	5	5	6.5
LE	3	3	3	3
LH	35	35	35	44.5
LK	14	14	14	25
T	3	3	3	5
KW no brake [with brake]	3 h9	3 h9	3 h9	5 h9
KH	6.2	6.2	6.2	11
TP	M3 Depth 6	M3 Depth 6	M3 Depth 6	M5 Depth 12
H type cable length for lead-wire type	210	210	210	210

X6MH005A / X6MH010A / X6MH015A / X6MH020A



*1: For X6 series servo motors, the lead-wire types are needed to be customized. For details, please contact our sales department.

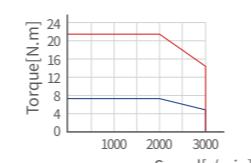
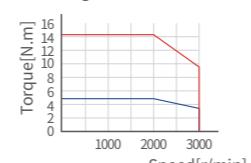
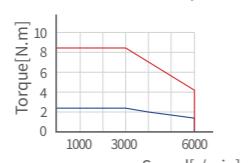
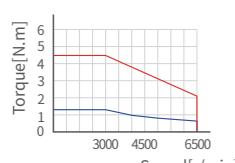
*2: There is the shaft diameter φ11 for X6 series servo motor, the model is X6MH020A-N2JD.



Servo Motor Specifications

400W
750W
1kW
1.5kW

Items	Unit	X6MH040A	X6MH075A	X6MH100A	X6MH150A
Rated power	W	400	750	1000	1500
Rated voltage	V	220	220	220	220
Fitting flange size	mm	60	80	130	130
Rated torque	N.m	1.27	2.39	4.77	7.16
Instantaneous max. torque	N.m	4.46	8.36	14.3	21.5
Rated speed	r/min	3000	3000	2000	2000
Max. speed	r/min	6500	6000	3000	3000
Rated current	Arms	2.1	3.8	5.2	8
Instantaneous max. current	Arms	7.36	13.3	15.6	24
Moment of inertia	No brake $\times 10^{-4}$ Kg.m ²	0.56	1.56	30.8	38.5
	With brake $\times 10^{-4}$ Kg.m ²	0.58	1.66	32	39.7
Torque constant	N.m/A	0.67	0.648	0.918	0.895
Induced voltage constant per phase	mV[r/min]	20.85	22.65	33.65	34.84
Rated power rate	No brake KW/S	28.8	36.6	7.39	13.3
	With brake KW/S	27.8	34.4	7.11	12.9
Mechanical time constant	No brake ms	1.24	0.97	7.54	4.9
	With brake ms	1.29	1.03	7.84	5.05
Electrical time constant	ms	2.97	6.59	11.1	14.63
Phase q-axis/d-axis inductance	mH	9.2/6.5	6/3.3	8.4/4.3	5.8/2.9
Weight: No brake[with brake]	kg	1.22 [1.61]	2.25 [3.01]	6.63[8.23]	8.03[9.63]
Permissible load	Radial load N	245	392	490	490
	Axial load N	98	147	196	196
	Rated voltage V	DC24V±10%			
	Rated current A	0.36	0.42	0.9	0.9
Brake specifications	Brake power W	9	9	9	9
Note: Holding brake	Static friction torque N.m	1.6 or more	3.8 or more	14 or more	14 or more
	Suction time ms	50 or less	70 or less	100 or less	100 or less
	Release time ms	20 or less	20 or less	60 or less	60 or less
	Release voltage V	DC1V or more			

Torque characteristics

X6MH040A ▲

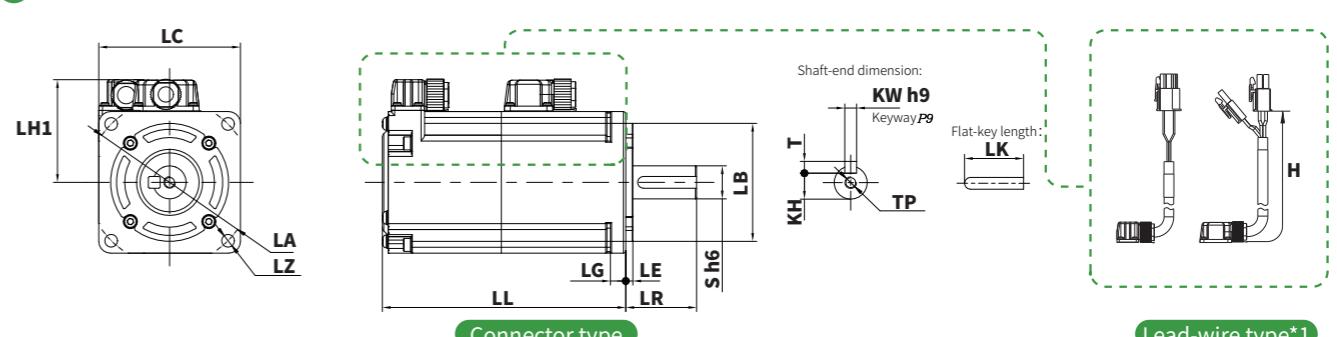
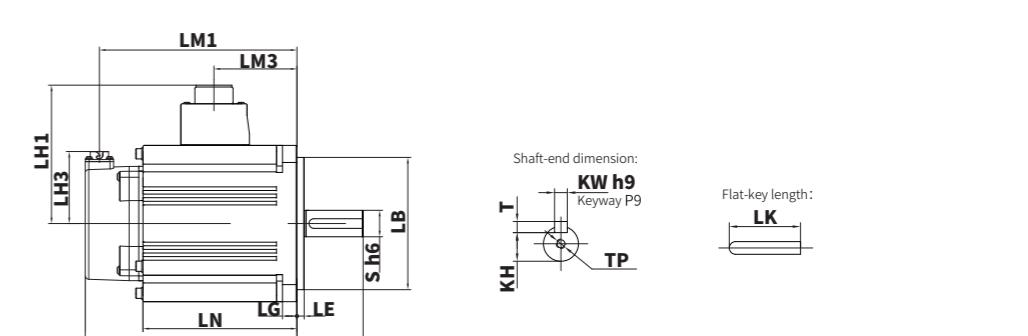
X6MH075A ▲

X6MH100A ▲

X6MH150A ▲

External Dimensions for Servo Motor

Models	X6MH040A	X6MH075A	X6MH100A	X6MH150A
LC	60	80	130	130
LA	φ70	φ90	φ145	φ145
LB	φ50	φ70	φ110	φ110
LZ	4-φ5.4	4-φ6.5	4-φ9	4-φ9
LR	30	35	55	55
S	φ14 h6	φ19 h6	φ22 h6	φ22 h6
LL no brake [with brake]	87.5 [117]	94.5 [128.5]	156 [176]	170 [190]
LN no brake [with brake]	—	—	108 [128]	122 [142]
LG	6.5	8	12	12
LE	3	3	6	6
LM1 no brake [with brake]	—	—	144.2 [164.2]	158.2 [178.2]
LM3	—	—	69	83
LH1	44.5	54.5	115	115
LH3	—	—	60	60
LK	25	25	45	45
T	5	6	7	7
KW	5 h9	6 h9	8 h9	8 h9
KH	11	15.5	18	18
TP	M5 Depth 12	M5 Depth 12	M6 Depth 20	M6 Depth 20
H type cable length for lead-wire type	210	210	—	—

X6MH040A / X6MH075A**X6MH100A / X6MH150A**

*1: For X6 series servo motors, the lead-wire types are needed to be customized.
For details, please contact our sales department.

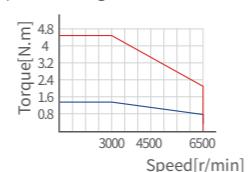
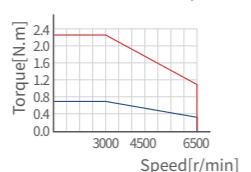
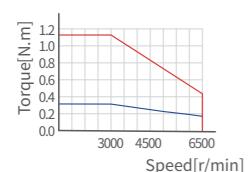
X6 Series Ultra-high Inertia[220V] X6MH□□□H-□2□□

Servo Motor Specifications

100W 200W 400W 750W

Items	Unit	X6MH010H	X6MH020H	X6MH040H	X6MH075H
Rated power	W	100	200	400	750
Rated voltage	V	220	220	220	220
Fitting flange size	mm	40	60	60	80
Rated torque	N.m	0.32	0.64	1.27	2.39
Instantaneous max. torque	N.m	1.11	2.23	4.45	8.36
Rated speed	r/min	3000	3000	3000	3000
Max. speed	r/min	6500	6500	6500	6000
Rated current	Arms	0.92	1.4	2.4	3.8
Instantaneous max. current	Arms	3.6	4.87	8.2	18.8
Moment of inertia	No brake $\times 10^{-4}$ Kg.m 2	0.092	0.47	0.73	3.15
	With brake $\times 10^{-4}$ Kg.m 2	0.095	0.49	0.75	—*2
Torque constant	N.m/A	0.347	0.5	0.531	0.648
Induced voltage constant per phase	mV[r/min]	13.3	14.61	20.4	22.65
Rated power rate	No brake KW/S	11.13	8.71	22.09	18.1
	With brake KW/S	10.78	8.36	21.5	17.85
Mechanical time constant	No brake ms	2.23	2.54	1.15	1.95
	With brake ms	2.3	2.65	1.18	1.98
Electrical time constant	ms	0.986	2.58	4.1	6.59
Phase q-axis/d-axis inductance	mH	11.9/8	10.2/5.8	6.9/4.3	6/3.3
Weight: No brake[with brake]	kg	0.44[0.65]	0.95 [1.29]	1.45 [1.85]	2.65 [—*2]
Permissible load	Radial load N	68	245	245	392
	Axial load N	58	98	98	147
	Rated voltage V	DC24V±10%			
	Rated current A	0.25	0.36	0.36	0.42
Brake specifications	Brake power W	6	9	9	10
Note: Holding brake	Static friction torque N.m	0.38 or more	1.6 or more	1.6 or more	3.8 or more
	Suction time ms	35 or less	50 or less	50 or less	70 or less
	Release time ms	20 or less	20 or less	20 or less	20 or less
	Release voltage V	DC1V or more			

Torque characteristics



X6MH010H ▲

X6MH020H ▲

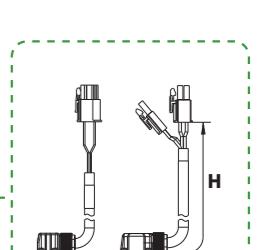
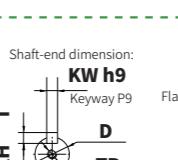
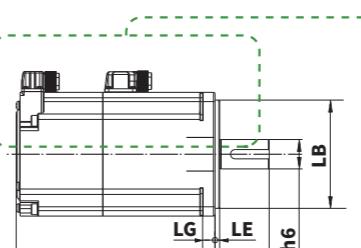
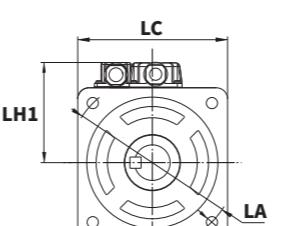
X6MH040H ▲

X6MH075H ▲

External Dimensions for Servo Motor

Models	X6MH010H	X6MH020H(Lead-wire type)	X6MH040H	X6MH075H(Lead-wire type)
LC	40	60	60	80
LA	φ46	φ70	φ70	φ90
LB	φ30	φ50	φ50	φ70
LZ	2-φ4.3	4-φ5.5	4-φ5.5	4-φ6.6
LR	25	30	30	35
S	φ8 h6	φ14 h6	φ14 h6	φ19 h6
LL no brake [with brake]	76.7 [110.7]	82.4 [111.9]	98.5 [128]	122 [—*2]
LG	5	6.5	6.5	8
LE	3	3	3	3
LH1	35	43.5	44.5	53.5
LK	14	25	25	25
T	3	5	5	6
KW	3 h9	5 h9	5 h9	6 h9
KH	6.2	11	11	15.5
TP	M3 Depth 6	M5 Depth 12	M5 Depth 12	M5 Depth 12
H type cable length for lead-wire type	210	210	210	210

X6MH010H / X6MH020H / X6MH040H / X6MH075H



Connector type

Lead-wire type*1

*1: For X6 series servo motors, the lead-wire types are needed to be customized.
For details, please contact our sales department.
*2: Indicates there is no model with the brake.

X2MA-Low inertia

X2MM-Middle inertia

X2MHS-Middle inertia

X2MH-High inertia

X2MQ-Special flange

X2MG-Low-speed & high-torque

X2MGS-Low-cogging cutting series

Unit(mm)

X2MA-Low inertia

X2MM-Middle inertia

X2MHS-Middle inertia

X2MH-High inertia

X2MQ-Special flange

X2MG-Low-speed & high-torque

X2MGS-Low-cogging cutting series

Servo Motor Specifications

100
W

200
W

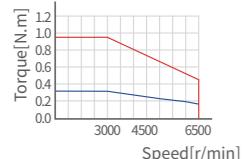
400
W

1
KW

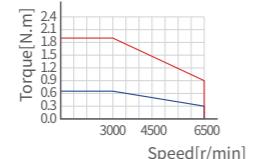
Items		Unit	X6MQ010A	MQ010A-□2K□	X6MQ020A	X6MQ040A	X6MQ100E
Rated power	W		100	100	200	400	1000
Rated voltage	V		220	220	220	220	220
Fitting flange size	mm		60	60	80	80	80
Rated torque	N.m		0.32	0.32	0.637	1.27	3.185
Instantaneous max. torque	N.m		0.96	0.96	1.91	3.82	11.13
Rated speed	r/min		3000	3000	3000	3000	3000
Max. speed	r/min		6500	6500	6500	6500	6000
Rated current	Arms		1.15	1.15	2	2.6	5.7
Instantaneous max. current	Arms		3.45	3.45	6.4	8.4	21.2
Moment of inertia	No brake	$\times 10^{-4}$ Kg.m ²	0.14	0.14	0.47	0.87	2
	With brake	$\times 10^{-4}$ Kg.m ²	0.16	0.16	0.5	0.9	2.1
Torque constant	N.m/A		0.28	0.28	0.318	0.488	0.552
Induced voltage constant per phase	mV[r/min]		10.78	10.78	12.2	19.6	21.2
Rated power rate	No brake	KW/S	6.99	6.99	8.63	18.5	50.7
	With brake	KW/S	6.64	6.64	8.12	17.92	48.31
Mechanical time constant	No brake	ms	2.3	2.3	2.51	1.51	0.85
	With brake	ms	2.46	2.46	2.67	1.57	0.897
Electrical time constant	ms		1.66	1.66	3.52	5.41	7.6
Phase q-axis/d-axis inductance	mH		13.63/11.09	13.63/11.09	7.3/3.9	9/4.9	3.8/2.6
Weight: No brake[with brake]	kg		0.68 [0.92]	0.68 [0.92]	1.24 [1.74]	1.6 [2.1]	2.68 [3.45]
Permissible load	Radial load	N	68	68	245	245	392
	Axial load	N	58	58	98	98	147
	Rated voltage	V	DC24V±10%				
	Rated current	A	0.9	0.9	0.9	0.9	0.42
Brake specifications Note: Holding brake	Brake power	w	22	22	22	22	22
	Static friction torque	N.m	0.38-1.1	0.38-1.1	1.6 or more	1.6 or more	3.8 or more
	Suction time	ms	60 or less	60 or less	60 or less	60 or less	70 or less
	Release time	ms	40 or less	40 or less	40 or less	40 or less	20 or less
	Release voltage	V	DC1.5V or more				DC1V or more

Torque characteristics

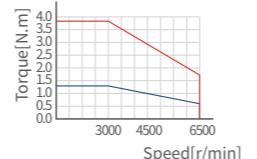
— Instantaneous operation range — Continuous operation range



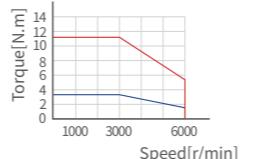
X6MQ010A ▲



X6MQ020A ▲



X6MQ040A ▲

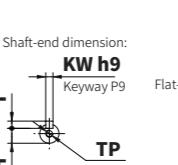
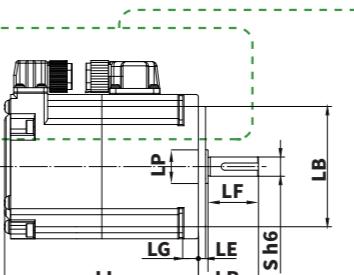
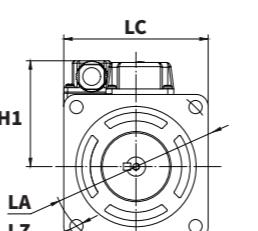


X6MQ100E ▲

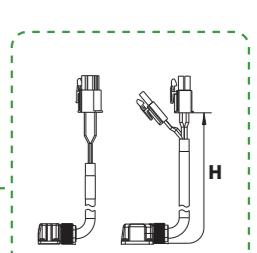
External Dimensions for Servo Motor

Models	X6MQ010A(Lead-wire type)	X6MQ020A(Lead-wire type)	X6MQ040A(Lead-wire type)	X6MQ100E
C	60	80	80	80
A	φ70	φ90	φ90	φ90
B	φ50h7	φ70	φ70	φ70
Z	4-φ5.4	4-φ6.5	4-φ6.5	4-φ6.5
R	25±0.5	30	30	35
S	φ8 h6	φ11 h6	φ14 h6	φ19 h6
L no brake [with brake]	78.1 [58.6]±1	66 [90]	76.8 [100.8]	108 [141.5]
G	6.5	8	8	8
E	3	3	3	3
F	21	26	26	—
P	φ14	φ19.7	φ19.7	—
H1	43.5±0.5	53.5	53.5	54.5
K	14	20	22	25
T	3	4	5	6
KW	3 h9	4 h9	5 h9	6 h9
KH	6.2	8.5	11	15.5
TP	M3 Depth 6	M4 Depth 8	M5 Depth 12	M5 Depth 12
All type cable length for lead-wire type	210±20	210	210	210

X6M0010A / X6M0020A / X6M0040A / X6M0100E



Connector type



Lead wire type*1

*1: For X6 series servo motors, the lead-wire types are needed to be customized.

X6 Series Low-speed & High-torque[220V] X6MG□□□□-□□□

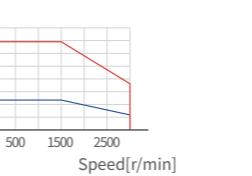
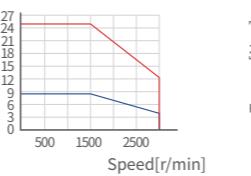
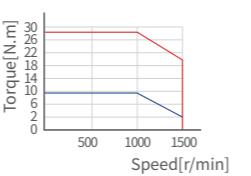
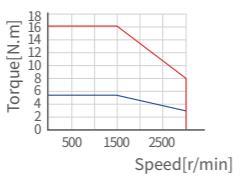
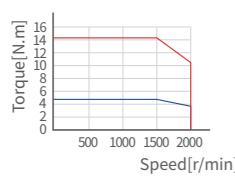
Servo Motor Specifications

750 W
850 W
1 KW
1.3 KW
1.8 KW

Items	Unit	X6MG075A	X6MG085A	X6MG100A	X6MG130A	X6MG180A
Rated power	W	750	850	1000	1300	1800
Rated voltage	V	220	220	220	220	220
Fitting flange size	mm	80	130	130	130	130
Rated torque	N.m	4.77	5.41	9.55	8.28	11.5
Instantaneous max. torque	N.m	14.3	16.2	28.6	24.84	34.5
Rated speed	r/min	1500	1500	1000	1500	1500
Max. speed	r/min	2000	3000	1500	3000	3000
Rated current	Arms	4.2	5.9	5.2	9.3	11.8
Instantaneous max. current	Arms	15	18	16	28	35.5
Moment of inertia	No brake $\times 10^{-4}$ Kg.m ²	2.88	14	12.1	20.2	26
	With brake $\times 10^{-4}$ Kg.m ²	3	15.2	13.3	21.4	27.2
Torque constant	N.m/A	1.135	0.918	1.83	0.895	0.964
Induced voltage constant per phase	mV[r/min]	43.3	33.65	67.3	34.84	40.18
Rated power rate	No brake KW/S	79	63.29	75.4	33.9	50.87
	With brake KW/S	75.84	58.26	68.6	32	48.6
Mechanical time constant	No brake ms	1.01	3.43	1.12	2.57	2.06
	With brake ms	1.05	3.72	1.23	2.72	2.15
Electrical time constant	ms	5.1	11.1	9.65	14.63	15.99
Phase q-axis/d-axis inductance	mH	8.4/5.7	8.4/4.3	11/8.7	5.8/2.9	4.9/2.6
Weight: No brake[with brake]	kg	3.46 [4.14]	5.76[7.36]	7.14[8.74]	7.12[8.72]	8.37[9.97]
Permissible load	Radial load N	392	490	490	490	490
	Axial load N	147	160	160	160	160
	Rated voltage V	DC24V±10%				
	Rated current A	0.42	0.9	0.9	0.9	0.9
Brake specifications	Brake power w	10	10	10	10	10
Note: Holding brake	Static friction torque N.m	3.8 or more	14 or more	14 or more	14 or more	14 or more
	Suction time ms	70 or less	100 or less	100 or less	100 or less	100 or less
	Release time ms	20 or less	60 or less	60 or less	60 or less	60 or less
	Release voltage V	DC1V or more				

Torque characteristics

Instantaneous operation range
Continuous operation range



X6MG075A ▲

X6MG085A ▲

X6MG100A ▲

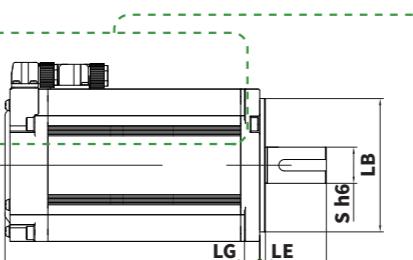
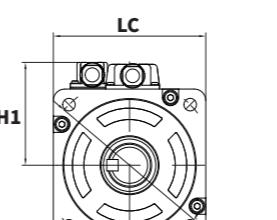
X6MG130A ▲

X6MG180A ▲

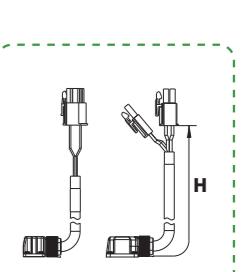
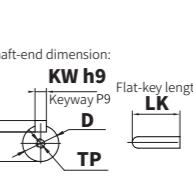
External Dimensions for Servo Motor

Models	X6MG075A(Lead-wire type)	X6MG085A	X6MG100A	X6MG130A	X6MG180A
LC	80	130	130	130	130
LA	φ90	φ145	φ145	φ145	φ145
LB	φ70	φ110	φ110	φ110	φ110
LZ	4-φ6.6	4-φ9	4-φ9	4-φ9	4-φ9
LR	35	55	55	55	55
S	φ19 h6	φ22 h6	φ22 h6	φ22 h6	φ22 h6
LL no brake [with brake]	134 [177]	156 [176]	156 [176]	170 [190]	184 [204]
LN no brake [with brake]	—	108 [128]	108 [128]	122 [142]	136 [156]
LG	8	12	12	12	12
LE	3	6	6	6	6
LM1 no brake [with brake]	—	144.2[164.2]	144.2[164.2]	158.2[178.2]	172.2[192.2]
LM3	—	69	69	83	97
LH1	54	115	115	115	115
LH3	—	60	60	60	60
LK	25	45	45	45	45
T	6	7	7	7	7
KW	6 h9	8 h9	8 h9	8 h9	8 h9
KH	15.5	18	18	18	18
TP	M5 Depth 12	M6 Depth 20	M6 Depth 20	M6 Depth 20	M6 Depth 20
H type cable length for lead-wire type	210	—	—	—	—

X6MG075A

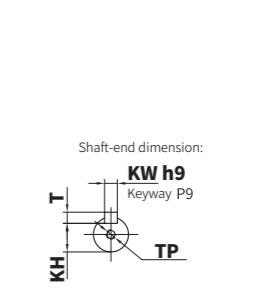
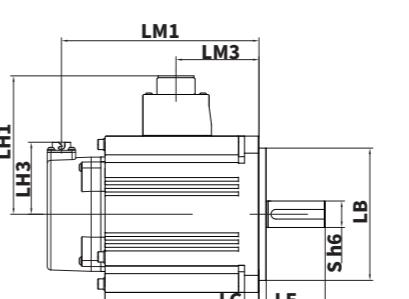
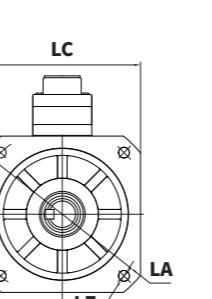


Connector type



Lead-wire type*1

X6MG085A / X6MG100A / X6MG130A / X6MG180A



*1: For X6 series servo motors, the lead-wire types are needed to be customized. For details, please contact our sales department.

Servo Motor Specifications

850 W
1.3 KW
1.8 KW

X2MA-Low inertia

X2MM-Middle inertia

X2MMS-Middle inertia high speed series

X2MH-High inertia

X2MHH-Ultra high inertia

X2MQ-Special flange

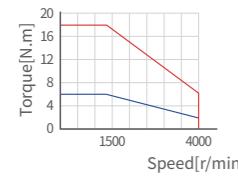
X2MG-Low-speed &high-torque cutting series

X2MGS-Low-cogging cutting series

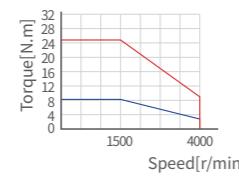
Items	Unit	X6MG085S	X6MG130S	X6MG180S
Rated power	W	850	1300	1800
Rated voltage	V	220	220	220
Fitting flange size	mm	130	130	130
Rated torque	N.m	5.39	8.28	11.5
Instantaneous max. torque	N.m	16.2	24.84	34.5
Rated speed	r/min	1500	1500	1500
Max. speed	r/min	4000	4000	4000
Rated current	Arms	6.7	9.6	15.6
Instantaneous max. current	Arms	20.1	28.8	46.8
Moment of inertia	No brake $\times 10^{-4}$ Kg.m 2	13.9	19.9	26
	With brake $\times 10^{-4}$ Kg.m 2	16	22	28.1
Torque constant	N.m/A	0.859	0.891	0.748
Induced voltage constant per phase	mV[r/min]	31.04	32.08	27
Rated power rate	No brake KW/S	20.9	35	50.9
	With brake KW/S	18.2	31.6	47.1
Mechanical time constant	No brake ms	2.74	2.23	1.95
	With brake ms	3.16	2.46	2.29
Electrical time constant	ms	10.2	10.7	11.14
Phase q-axis/d-axis inductance	mH	—	—	—
Weight: No brake[with brake]	kg	5.7 [7.7]	7.3[9.2]	8.8[11.2]
Permissible load	Radial load N	490	490	490
	Axial load N	196	196	196
	Rated voltage V	DC24V±10%		
	Rated current A	0.41	0.41	0.41
Brake specifications	Brake power w	10	10	10
Note: Holding brake	Static friction torque N.m	14 or more	14 or more	14 or more
	Suction time ms	100 or less	100 or less	100 or less
	Release time ms	80 or less	80 or less	80 or less
	Release voltage V	DC1V or more		

Torque characteristics

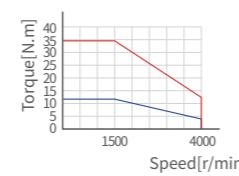
Instantaneous operation range Continuous operation range



X6MG085S ▲



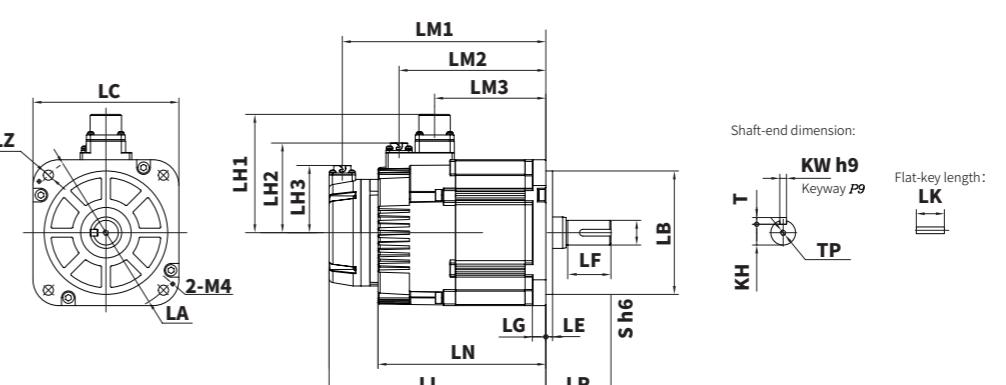
X6MG130S ▲



X6MG180S ▲

External Dimensions for Servo Motor

Models	X6MG085S	X6MG130S	X6MG180S
LC	130	130	130
LA	φ145	φ145	φ145
LB	φ110	φ110	φ110
LZ	4-φ9	4-φ9	4-φ9
LR	58	58	58
S	φ19 h6	φ22 h6	φ24 h6
LL no brake [with brake]	141.1 [177.1]	157.1[193.1]	175.1 [211.1]
LN no brake [with brake]	97.5[133.5]	113.5[149.5]	131.5[167.5]
LG	12	12	12
LE	6	6	6
LF	40	40	40
LM1 no brake [with brake]	129.4[165.4]	145.3[181.3]	163.3 [199.3]
LM2 no brake [with brake]	—[114.5]	—[130.5]	—[148.5]
LM3	83	99	117
LH1	105	105	105
LH2	79.5	79.5	79.5
LH3	60	60	60
LK	25	25	25
T	5	6	7
KW	5 h9	6 h9	8 h9
KH	16	18.5	20
TP	M5 Depth 16	M5 Depth 16	M5 Depth 16

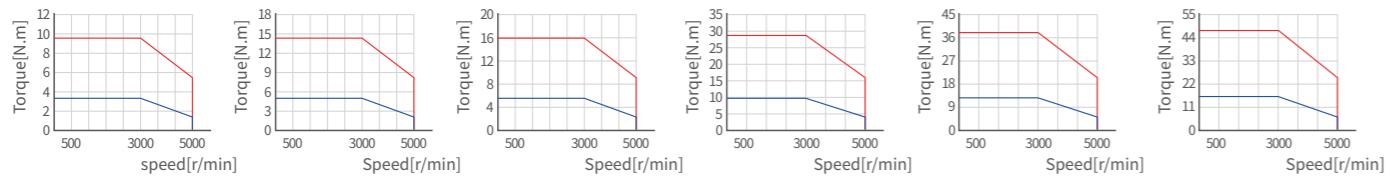
▼ X6MG085S/X6MG130S/X6MG180S


Servo Motor Specifications



Torque characteristics

— Instantaneous operation range — Continuous operation range



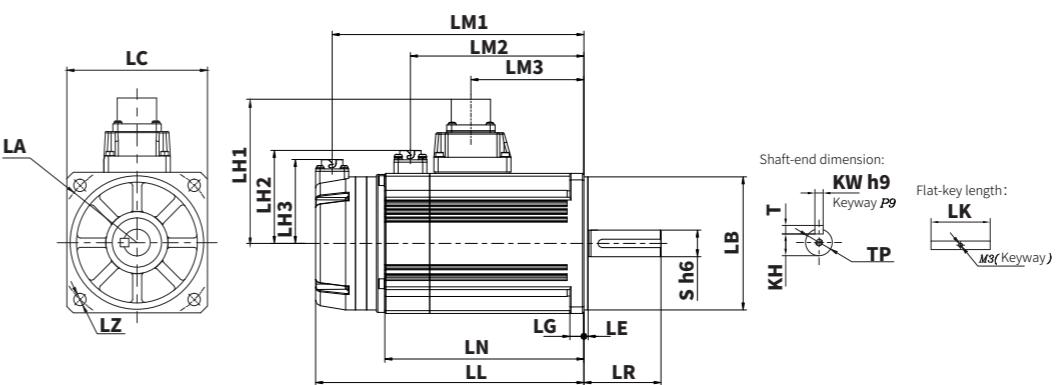
X6MA100A ▲ X6MA150A ▲ X6MA200A ▲ X6MA300k ▲ X6MA400k ▲ X6MA400k ▲

External Dimensions for Servo Motor

Unit(mm)

Models	X6MA100A	X6MA150A	X6MA200A	X6MA300K	X6MA400K	X6MA500K
LC	100	100	100	130	130	130
LA	φ115	φ115	φ115	φ145	φ145	φ145
LB	φ95	φ95	φ95	φ110	φ110	φ110
LZ	4-φ9	4-φ9	4-φ9	4-φ9	4-φ9	4-φ9
LR	55	55	55	65	65	65
S	φ19 h6	φ19 h6	φ19 h6	φ24 h6	φ24 h6	φ24 h6
LL (20bit)no brake [with brake]	123.5 [150.5]	142[169]	161[188]	182 [202]	224 [244]	274 [294]
LL (23bit)no brake [with brake]	146[173]	164.5[191.5]	183.5[210.5]	202.5[222.5]	244.5[264.5]	294.5[314.5]
LN no brake [with brake]	96.5[123.5]	115[142]	134[161]	154.5[174.5]	196.5[216.5]	246.5[266.5]
LG	10	10	10	12	12	12
LE	3	3	3	6	6	6
LM1 (20bit)no brake [with brake]	111.5[138.5]	130[157]	149[176]	170[190]	212[232]	262[282]
LM1 (23bit)no brake [with brake]	134[161]	153[180]	171.5[198.5]	190[210]	232.7[252.7]	282.7[302.7]
LM2 (20bit)no brake [with brake]	105	123.5	[142.5]	—	—	—
LM2 (23bit)no brake [with brake]	105	123.5	[142.5]	—	—	—
LM3(20bit)	62	80.5	99.5	115.5	157.5	207.5
LM3(23bit)	62	80.5	99.5	115.5	157.5	207.5
LH1	103	103	103	115	115	115
LH2	66.5	66.5	66.5	—	—	—
LH3(20bit)	55	55	55	56.5	56.5	56.5
LH3(23bit)	60	60	60	60	60	60
LK	42	42	42	51	51	51
T	6	6	6	7	7	7
KW	6h9	6h9	6h9	8h9	8h9	8h9
KH	15.5	15.5	15.5	20	20	20
TP	M5 Depth 12	M5 Depth 12	M5 Depth 12	M6 Depth 20	M6 Depth 20	M6 Depth 20

 X6MA100A / X6MA150A / X6MA200A / X6MA300K / X6MA400K/X6MA500K



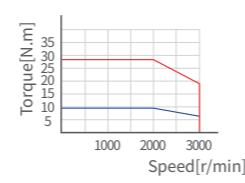
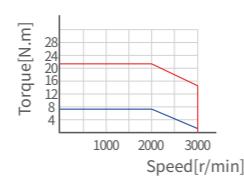
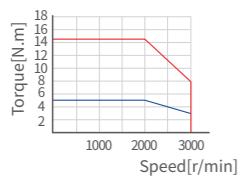
Servo Motor Specifications

1 KW 1.5 KW 2 KW

Items	Unit	X6MM100A	X6MM150A	X6MM200A
Rated power	W	1000	1500	2000
Rated voltage	V	380	380	380
Fitting flange size	mm	130	130	130
Rated torque	N.m	4.77	7.16	9.55
Instantaneous max. torque	N.m	12	17.9	23.87
Rated speed	r/min	2000	2000	2000
Max. speed	r/min	3000	3000	3000
Rated current	Arms	3	4.3	5.3
Instantaneous max. current	Arms	9	13	16
Moment of inertia	No brake $\times 10^{-4}$ Kg.m ²	6.18	9.16	12.1
	With brake $\times 10^{-4}$ Kg.m ²	7.4	10.4	13.3
Torque constant	N.m/A	1.56	1.67	1.8
Induced voltage constant per phase	mV[r/min]	57.2	61.5	72.17
Rated power rate	No brake KW/S	36.9	56	75.4
	With brake KW/S	30.8	49.3	68.6
Mechanical time constant	No brake ms	1.72	1.34	1.33
	With brake ms	2.06	1.52	1.47
Electrical time constant	ms	1.72	12.27	13.9
Phase q-axis/d-axis inductance	mH	24.1/12.2	18.5/9.45	18/9.3
Weight: No brake[with brake]	kg	4.69[6.29]	5.8 [7.4]	6.88[8.48]
Permissible load	Radial load N	490	490	490
	Axial load N	196	196	196
	Rated voltage V	DC24V±10%		
	Rated current A	0.9	0.9	0.9
Brake specifications	Brake power w	22	22	22
Note: Holding brake	Static friction torque N.m	14 or more	14 or more	14 or more
	Suction time ms	100 or less	100 or less	100 or less
	Release time ms	60 or less	60 or less	60 or less
	Release voltage V	DC1V or more	DC1V or more	DC1V or more

Torque characteristics

— Instantaneous operation range — Continuous operation range



X6MM100A ▲

X6MM150A ▲

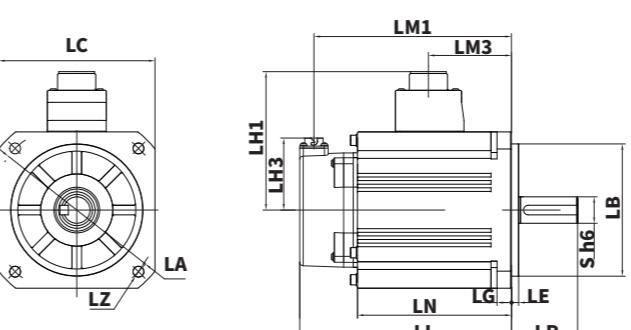
X6MM200A ▲

External Dimensions for Servo Motor

Unit(mm)

Models	X6MM100A	X6MM150A	X6MM200A
LC	130	130	130
LA	φ145	φ145	φ145
LB	φ110	φ110	φ110
LZ	4-φ9	4-φ9	4-φ9
LR	55	55	55
S	φ22 h6	φ22 h6	φ22 h6
LL (20bit)no brake [with brake]	107.5 [127.5]	121.5 [141.5]	135.5[155.5]
LL (23bit)no brake [with brake]	128[148]	142[162]	156 [176]
LN no brake [with brake]	80[100]	94[114]	108[128]
LG	12	12	12
LE	6	6	6
LM1(20bit)no brake [with brake]	95.5[115.5]	109.5[129.5]	123.5[143.5]
LM1(23bit)no brake [with brake]	116.2[136.2]	130.2[150.2]	144.2[164.2]
LM3	41	55	69
LH1	115	115	115
LH3(20bit)	56.5	56.5	56.5
LH3(23bit)	60	60	60
LK	45	45	45
T	7	7	7
KW	8h9	8h9	8h9
KH	18	18	18
TP	M6 Depth 20	M6 Depth 20	M6 Depth 20

▼ X6MM100A / X6MM150A / X6MM200A



Shaft-end dimension:
KW h9
Keyway P9
Flat-key length:
LK
TP

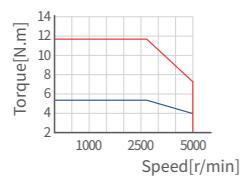
Servo Motor Specifications

1 KW 1.5 KW 2 KW

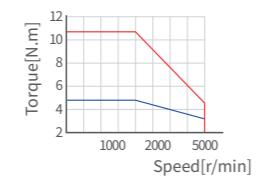
Items	Unit	X6MM100S	X6MM150S	X6MM200S
Rated power	W	1000	1500	2000
Rated voltage	V	380	380	380
Fitting flange size	mm	130	130	130
Rated torque	N.m	4.77	7.16	9.55
Instantaneous max. torque	N.m	14.31	21.5	28.6
Rated speed	r/min	2000	2000	2000
Max. speed	r/min	5000	5000	5000
Rated current	Arms	4.6	6.7	9
Instantaneous max. current	Arms	16.2	23.5	31.5
Moment of inertia	No brake $\times 10^{-4}$ Kg.m ²	9.16	12.1	16.85
	With brake $\times 10^{-4}$ Kg.m ²	10.4	13.3	18.05
Torque constant	N.m/A	1.03	1.07	1.06
Induced voltage constant per phase	mV[r/min]	38.2	40.4	38.1
Rated power rate	No brake KW/S	24.9	42.4	54.1
	With brake KW/S	21.9	38.6	50.7
Mechanical time constant	No brake ms	1.29	1.15	0.97
	With brake ms	1.47	1.26	1.04
Electrical time constant	ms	11.8	13.9	19.4
Phase q-axis/d-axis inductance	mH	6.62/3.93	5.6/2.8	4.67/2.37
Weight: No brake[with brake]	kg	5.87 [7.47]	6.98 [8.58]	6.91[10.1]
Permissible load	Radial load N	490	490	490
	Axial load N	196	196	196
	Rated voltage V	DC24V±10%		
	Rated current A	0.9	0.9	0.9
Brake specifications	Brake power w	21.5	21.5	21.5
Note: Holding brake	Static friction torque N.m	14 or more	14 or more	14 or more
	Suction time ms	100 or less	100 or less	100 or less
	Release time ms	60 or less	60 or less	60 or less
	Release voltage V	DC1V or more	DC1V or more	DC1V or more

Torque characteristics

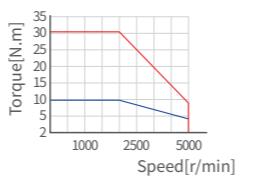
— Instantaneous operation range — Continuous operation range



X6MM100S ▲



X6MM150S ▲

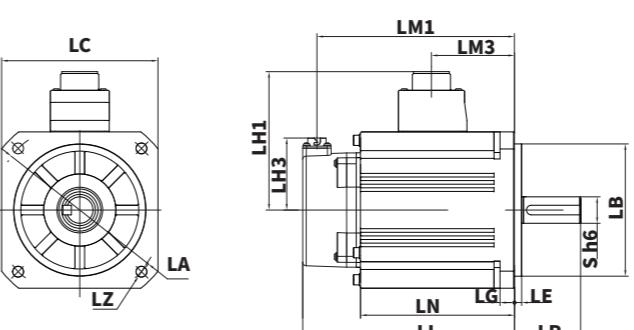


X6MM200S ▲

External Dimensions for Servo Motor

Models	X6MM100S	X6MM150S	X6MM200S
LC	130	130	130
LA	φ145	φ145	φ145
LB	φ110	φ110	φ110
LZ	4-φ9	4-φ9	4-φ9
LR	55	55	55
S	φ22 h6	φ22 h6	φ22 h6
LL(20bit)no brake [with brake]	121.5[141.5]	135.5[155.5]	163.5[183.5]
LL(23bit)no brake [with brake]	142[162]	156 [176]	184 [204]
LN no brake [with brake]	94[114]	108[128]	136[156]
LG	12	12	12
LE	6	6	6
LM1(20bit)no brake [with brake]	109.5[129.5]	123.5 [143.5]	151.5[171.5]
LM1(23bit)no brake [with brake]	130.2[150.2]	144.2[164.2]	172.2[192.2]
LM3	55	69	97
LH1	115	115	115
LH3(20bit)no brake [with brake]	56.5	56.5	56.5
LH3(23bit)no brake [with brake]	60	60	60
LK	45	45	45
T	7	7	7
KW	8h9	8h9	8h9
KH	18	18	18
TP	M6 Depth 20	M6 Depth 20	M6 Depth 20

▼ X6MM100S / X6MM150S / X6MM200S



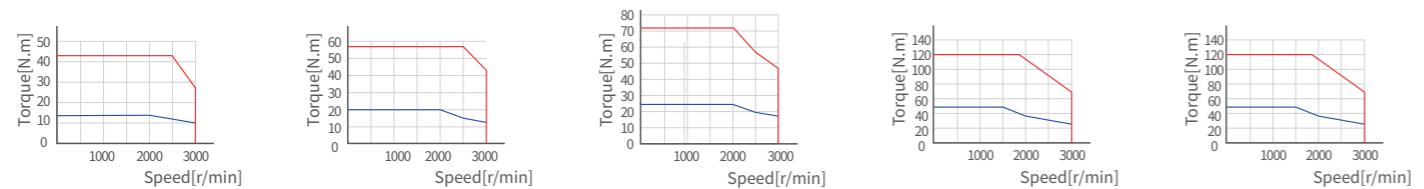
Shaft-end dimension:
KW h9
Keyway P9
Flat-key length:
LK
TP

Servo Motor Specifications

3 KW 4 KW 5 KW 7.5 KW

Items	Unit	X6MM300A	X6MM400A	X6MM500A	X6MM750A	X6MM750H
Rated power	W	3000	4000	5000	7500	7500
Rated voltage	V	380	380	380	380	380
Fitting flange size	mm	180	180	180	180	180
Rated torque	N.m	14.3	19.1	23.9	47.8	47.8
Instantaneous max. torque	N.m	42.9	57.3	71.6	119.4	119.4
Rated speed	r/min	2000	2000	2000	1500	1500
Max. speed	r/min	3000	3000	3000	2500	3000
Rated current	Arms	8.7	11.5	13.5	21.8	25.3
Instantaneous max. current	Arms	30	38	45	75	65.8
Moment of inertia	No brake $\times 10^{-4}$ Kg.m 2	43.5	54.7	66.7	99.3	136.4
	With brake $\times 10^{-4}$ Kg.m 2	63.2	68	80.8	114.2	150.8
Torque constant	N.m/A	1.8	1.82	2.04	2.5	2.1
Induced voltage constant per phase	mV[r/min]	62.9	63.5	71.3	87.2	74.3
Rated power rate	No brake KW/S	47.2	66.7	85.5	230.1	167.5
	With brake KW/S	32.5	53.6	70.5	200.1	151.5
Mechanical time constant	ms	1.4	1.29	1.10	0.82	0.96
	With brake ms	2.03	1.61	1.33	0.94	1.06
Electrical time constant	ms	18.7	19	21.7	20	26.9
Phase q-axis/d-axis inductance	mH	5.8	4.4	4.5	3.1	2.5
Weight: No brake[with brake]	kg	14.3 [19]	16.5 [21.2]	19.4 [24.1]	25[29.7]	28.2[32.9]
Permissible load	Radial load N	784	784	784	2058	2058
	Axial load N	343	343	343	980	980
	Rated voltage V	DC24V±10%				
	Rated current A	1.04	1.04	1.04	1.04	1.04
Brake specifications	Brake power W	25	25	25	25	25
Note: Holding brake	Static friction torque N.m	74 or more	74 or more	74 or more	74 or more	74 or more
	Suction time ms	120 or less	120 or less	120 or less	120 or less	120 or less
	Release time ms	30 or less	30 or less	30 or less	30 or less	30 or less
	Release voltage V	DC0.5 or more				

Torque characteristics



X6MM300A ▲

X6MM400A ▲

X6MM500A ▲

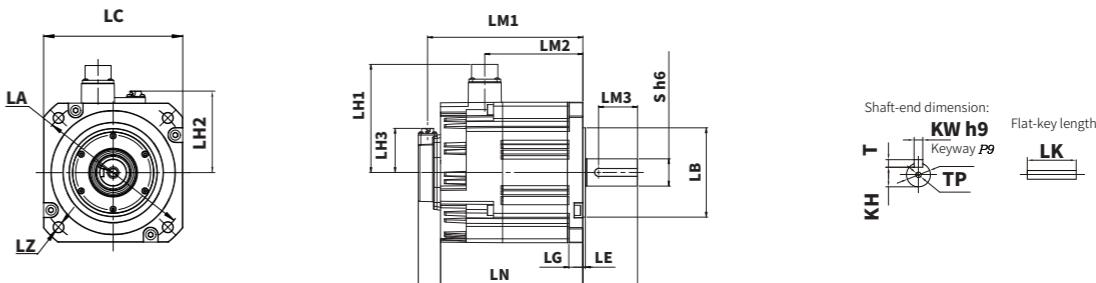
X6MM750A ▲

X6MM750H ▲

External Dimensions for Servo Motor

Models	X6MM300A	X6MM400A	X6MM500A	X6MM750A	X6MM750H
LC	180	180	180	180	180
LA	200	200	200	200	200
LB	φ114.3 h7				
LZ	4-φ13.5	4-φ13.5	4-φ13.5	4-φ13.5	4-φ13.5
LR	70±0.5	70±0.5	70±0.5	113±0.5	113±0.5
S	φ35 h6	φ35 h6	φ35 h6	φ42 h6	φ42 h6
LL (20bit) no brake [with brake]	159±1[211±1]	173±1[225±1]	188±1[240±1]	230±1[282±1]	253±1[305±1]
LL (23bit) no brake [with brake]	172±1[231.5±1]	186±1[245.5±1]	201±1[260.5±1]	243±1[302.5±1]	266±1[325.5±1]
LN no brake [with brake]	128[182.5]	142[196.5]	157[211.5]	199[253.5]	222[276.5]
LG	18	18	18	18	18
LE	3.2	3.2	3.2	3.2	3.2
LM1 (20bit) no brake [with brake]	147[199]	161[213]	176[228]	218[270]	241[293]
LM1 (23bit) no brake [with brake]	160[220]	174[234]	189[248.7]	231[291]	254[314]
LM2 no brake [with brake]	107[125.8]	121[139.8]	136[154.8]	178[196.8]	201[219.8]
LM3	50	50	50	90	90
LH1 no brake [with brake]	144[138.6]	144[138.6]	144[138.6]	144[138.6]	144[138.6]
LH2	105.3	105.3	105.3	105.3	105.3
LH3 (20bit) no brake [with brake]	55[56.4]	55[56.4]	55[56.4]	55[56.4]	55[56.4]
LH3 (23bit) no brake [with brake]	60[59.8]	60[59.8]	60[59.8]	60[59.8]	60[59.8]
LK	50	50	50	90	90
T	8	8	8	8	8
KW	10 h9	10 h9	10 h9	12 h9	12 h9
KH	30	30	30	37	37
TP	M12 Depth 25	M12 Depth 25	M12 Depth 25	M16 Depth 32	M16 Depth 32

X6MM300A/X6MM400A/X6MM500A/X6MM750A/X6MM750H



**Servo Motor Specifications**11KW
15KW
22KW

X2MA-Low inertia

X2MM-Middle inertia

X2MH-High inertia

X2MG-Low-speed &high-torque

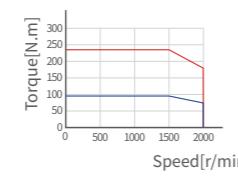
X2MGS-Low-cogging cutting series

Torque characteristics

Instantaneous operation range Continuous operation range



X6MM11KA ▲



X6MM15KA ▲

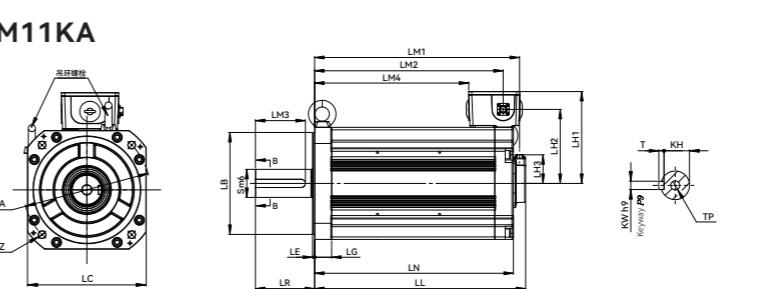
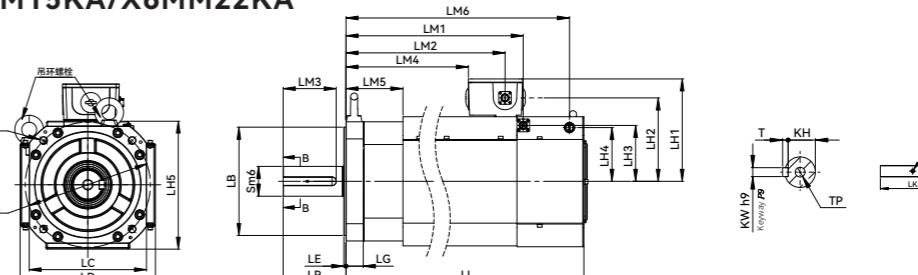


X6MM22KA ▲

External Dimensions for Servo Motor

Unit(mm)

Models	X6MM11KA	X6MM15KA	X6MM22KA
LC	220	220	220
LA	235	235	235
LB	φ200 h7	φ200 h7	φ200 h7
LZ	4-φ13.5	4-φ13.5	4-φ13.5
LR	116±1	116±1	116±1
S	φ55 m6	φ55 m6	φ55 m6
LL (20bit) no brake [with brake]	351[424]	510[583]	628[707]
LL (23bit) no brake [with brake]	371.5[444.5]	510[583]	628[707]
LN no brake [with brake]	327[400]	-	-
LG	32	32	32
LE	4	4	4
LM1 (20bit) no brake [with brake]	339[412]	398[471]	516[595]
LM1 (23bit) no brake [with brake]	360[433]	398[471]	516[595]
LM2 with brake	380	437	561
LM3	98	98	98
LM4 no brake [with brake]	239[312]	297[370]	415[494]
LM5	-	105	105
LM6 no brake [with brake]	-	483[556]	601[680]
LH1	180	189	189
LH2 with brake	145	154	154
LH3(20bit)no brake [with brake]	56	103	103
LH3(23bit)no brake [with brake]	60	103	103
LH4	-	99	99
LH5	-	240	240
LD	-	254	254
LK	90	90	90
T	10	10	10
KW	16P9	16P9	16P9
KH	49	49	49
TP	M20 Depth 40	M20 Depth 40	M20 Depth 40

X6MM11KA**X6MM15KA/X6MM22KA**

Servo Motor Specifications

2 KW
4 KW

X2MA-Low inertia

X2MM-Middle inertia

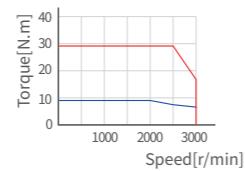
X2MH-High inertia

X2MG-Low-speed &high-torque

X2MGS-Low-cogging cutting series

Torque characteristics

Instantaneous operation range Continuous operation range



X6MH200A ▲



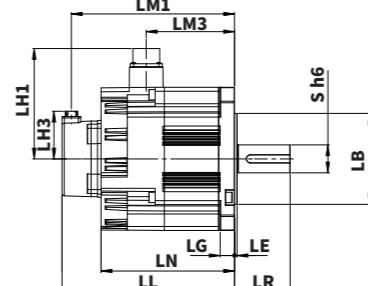
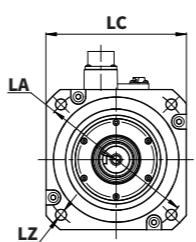
X6MH400A ▲

External Dimensions for Servo Motor

Unit(mm)

Models	X6MH200A	X6MH400A
LC	180	180
LA	200	200
LB	φ114.3 h7	φ114.3 h7
LZ	4-φ13.5	4-φ13.5
LR	70±0.5	70±0.5
S	φ35 h6	φ35 h6
LL(20bit) no brake [with brake]	144±1[196±1]	191±1[243±1]
LL(23bit) no brake [with brake]	157±1[216.5±1]	204±1[263.5±1]
LN no brake [with brake]	113[167.5]	160[214.5]
LG	18	18
LE	3.2	3.2
LM1(20bit) no brake [with brake]	132[184]	179[231]
LM1(23bit) no brake [with brake]	145[205]	192[252]
LM2 no brake [with brake]	92[110.8]	139[157.8]
LM3	50	50
LH1 no brake [with brake]	144[138.6]	144[138.6]
LH2	105.3	105.3
LH3(20bit) no brake [with brake]	55[56.4]	55[56.4]
LH3(23bit) no brake [with brake]	60[59.8]	60[59.8]
LK	50	50
T	8	8
KW	10 h9	10 h9
KH	30	30
TP	M12 Depth 25	M12 Depth 25

X6MH200A / X6MH400A



Shaft-end dimension:
KW h9
Keyway P9
Flat-key length:
LK

Servo Motor Specifications

850 W	1.3 KW	1.5 KW	1.8 KW
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X2MA-Low inertia

Items		Unit	X6MG085A	X6MG150C
Rated power	W		850	1500
Rated voltage	V		380	380
Fitting flange size	mm		130	130
Rated torque	N.m		5.41	14.3
Instantaneous max. torque	N.m		16.2	42
Rated speed	r/min		1500	1000
Max. speed	r/min		3000	1500
Rated current	Arms		4	5
Instantaneous max. current	Arms		14	15
Moment of inertia	No brake $\times 10^{-4} \text{Kg.m}^2$		14	20.8
	With brake $\times 10^{-4} \text{Kg.m}^2$		15.2	22
Torque constant	N.m/A		1.316	2.89
Induced voltage constant per phase	mV[r/min]		48.78	106
Rated power rate	No brake KW/S		21.1	77.4
	With brake KW/S		18.3	71.9
Mechanical time constant	No brake ms		3.37	1.34
	With brake ms		4.29	1.44
Electrical time constant	ms		11.7	15.3
Phase q-axis/d-axis inductance	mH		20.14/10.27	23/12
Weight: No brake[with brake]	kg		5.68 [7.28]	10.45[12.05]
Permissible load	Radial load N		490	490
	Axial load N		196	196
	Rated voltage V		DC24V±10%	DC24V±10%
	Rated current A		0.9	0.9
Brake specifications	Brake power w		21.6	21.5
Note: Holding brake	Static friction torque N.m		14 or more	20 or more
	Suction time ms		100 or less	100 or less
	Release time ms		60 or less	60 or less
	Release voltage V		DC1V or more	DC1V or more

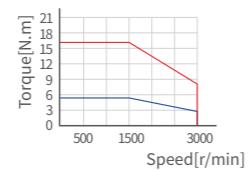
X2MH-High inertia

X2MG-Low-speed &high-torque

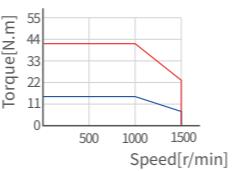
X2MGS-Low-cogging cutting series

Torque characteristics

— Instantaneous operation range — Continuous operation range



X6MG085A ▲

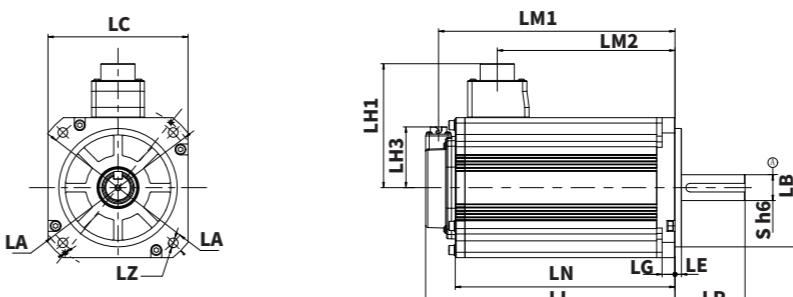


X6MG150C ▲

External Dimensions for Servo Motor

Unit(mm)

Models	X6MG085A	X6MG150C
LC	130	130
LA	φ145	φ145
LB	φ110	φ110
LZ	4-φ9	4-φ9
LR	55	55
S	φ22 h6	φ22h6
LL (20bit) no brake [with brake]	135.5[155.5]	182[202]
LL (23bit) no brake [with brake]	156[176]	202.5[222.5]
LN no brake [with brake]	108[128]	155.5[174.5]
LG	12	12
LE	6	6
LM1 (20bit) no brake [with brake]	123.5[143.5]	170[190]
LM1 (23bit) no brake [with brake]	144.2[164.2]	190.5[210.7]
LM2 no brake [with brake]	69	—
LM3	—	115.5
LH1 no brake [with brake]	115	115.5
LH2	—	—
LH3 (20bit) no brake [with brake]	56.5	56.5
LH3 (23bit) no brake [with brake]	60	60
LK	45	45
T	7	7
KW	8 h9	8 h9
KH	18	18
TP	M6 Depth 20	M6 Depth 20

X6MG085A/X6MG150C

Shaft-end dimension:
KWh9
Keyway P9
TP

Flat-key length:
LK

Note *1: Under development.

Servo Motor Specifications

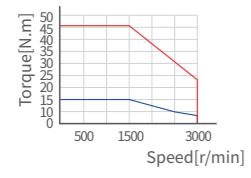
2.4
KW
2.9
KW
4.4
KW
5.5
KW

X2MA-Low inertia

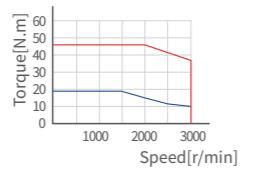
X2MM-Middle inertia

X2MH-High inertia

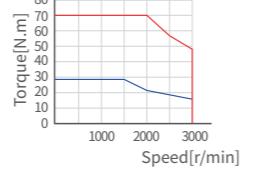
X2MG-Low-speed &high-torque cutting series

Torque characteristics

X6MG240A ▲



X6MG290A ▲



X6MG440A ▲

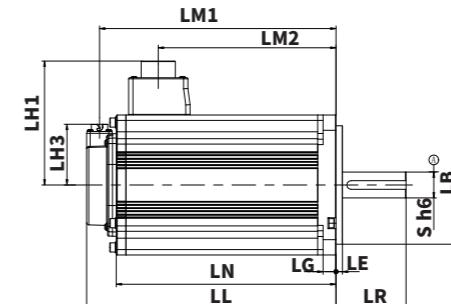
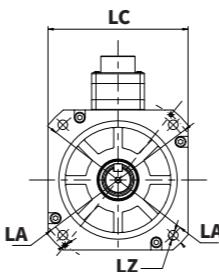


X6MG550A ▲

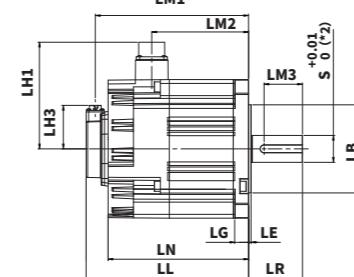
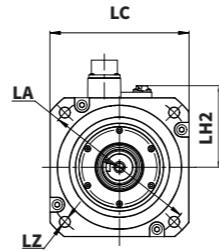
External Dimensions for Servo Motor

Unit(mm)

Models	X6MG240A*1	X6MG290A	X6MG440A	X6MG550A
LC	130	180	180	180
LA	φ145	200	200	200
LB	φ110	φ114.3 h7	φ114.3 h7	φ114.3 h7
LZ	4-φ9	4-φ13.5	4-φ13.5	4-φ13.5
LR	65	79±0.5	79±0.5	113±0.5
S	φ24 h6	φ35 ^{+0.01} ₀	φ35 ^{+0.01} ₀	φ42 h6
LL (20bit) no brake [with brake]	231.5[251.5]	165±1[217±1]	191±1[243±1]	220±1[272±1]
LL (23bit) no brake [with brake]	252[272]	178±1[237.5±1]	204±1[263.5±1]	233±1 [292.5±1]
LN no brake [with brake]	204[224]	134[188.5]	160[214.5]	189[243.5]
LG	12	18	18	18
LE	6	3.2	3.2	3.2
LM1 (20bit) no brake [with brake]	219.5[239.5]	153[205]	179[231]	208[260]
LM1 (23bit) no brake [with brake]	240.2[260.2]	166[226]	192[252]	221[281]
LM2 no brake [with brake]	165[165]	113[131.8]	139[157.8]	168[186.8]
LM3	—	60	60	90
LH1 no brake [with brake]	115	144[139]	144[139]	144[139]
LH2	—	105.3	105.3	105.3
LH3 (20bit) no brake [with brake]	56.5	55[56]	55[56]	55[56]
LH3 (23bit) no brake [with brake]	60	60	60	60
LK	51	60	60	90
T	7	8	8	8
KW	8 h9	10 p9	10 p9	12 p9
KH	20	30	30	37
TP	M6 Depth 20	M12 Depth 25	M12 Depth 25	M16 Depth 32

X6MG240A

Shaft-end dimension:
KWh9
Keyway P9
Flat-key length:
LK

X6MG290A / X6MG440A / X6MG550A

Shaft-end dimension:
KW h9
Keyway P9
Flat-key length:
LK

Note *1:Under development.

*2:Shaft difference for X6MG550A is h6

Servo Motor Specifications

850 W 1.3 KW 1.8 KW 2.9 KW 4.4 KW

X2MA-Low inertia

X2MM-Middle inertia

X2MH-High inertia

X2MG-Low-speed &high-torque

X2MGS-Low-cogging cutting series

Torque characteristics



X6MG085S ▲

X6MG130S ▲

X6MG180S ▲

X6MG290S ▲

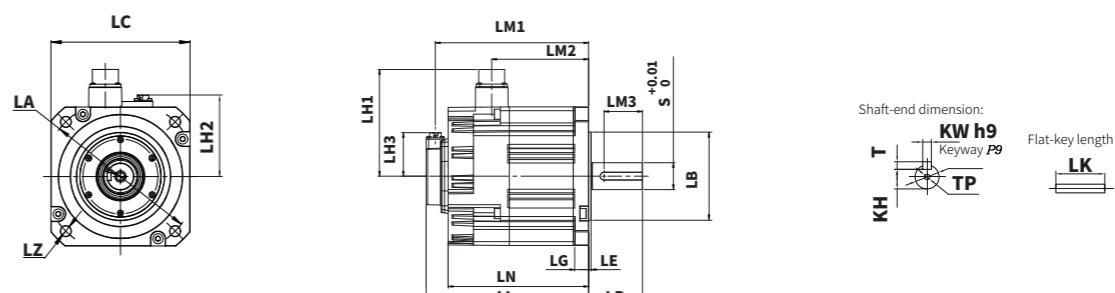
X6MG440S ▲

External Dimensions for Servo Motor

Unit(mm)

Models	X6MG085S	X6MG130S	X6MG180S	X6MG290S	X6MG440S
LC	130	130	130	180	180
LA	φ145	φ145	φ145	200	200
LB	φ110h7	φ110h7	φ110h7	φ114.3 h7	φ114.3 h7
LZ	4-φ9	4-φ9	4-φ9	4-φ13.5	4-φ13.5
LR	55	55	55	79±0.5	79±0.5
S	φ22 h6	φ22 h6	φ22 h6	φ35 ^{+0.01} ₋₀	φ35 ^{+0.01} ₋₀
LL(20bit) no brake [with brake]	121.5 [141.5]	135.5 [155.5]	159.4 [179.4]	165±1[217±1]	191±1[243±1]
LL(23bit) no brake [with brake]	142 [162]	156 [176]	179.9 [199.9]	178±1[237.5±1]	204±1[263.5±1]
LN no brake [with brake]	94[114]	108[128]	131.9[151.9]	134[188.5]	160[214.5]
LG	12	12	12	18	18
LE	6	6	6	3.2	3.2
LM1(20bit) no brake [with brake]	109.5[129.5]	123.5[143.5]	147.4[167.4]	153[205]	179[231]
LM1(23bit) no brake [with brake]	130.2[150.2]	144.2[164.2]	168.1[188.1]	166[226]	192[252]
LM2	[97.9]	[111.9]	[135.8]	113[131.8]	139[157.8]
LM3	64.1	80	103	60	60
LH1	103.8	103.8	103.8	144[139]	144[139]
LH2	[81.4]	[81.4]	[81.4]	105.3	105.3
LH3(20bit) no brake [with brake]	56.4	56.4	56.4	55[56]	55[56]
LH3(23bit) no brake [with brake]	60	60	60	60	60
LK	45	45	45	60	60
T	7	7	7	8	8
KW	8 h9	8 h9	8 h9	10 p9	10 p9
KH	18	18	18	30	30
TP	M6 Depth 20	M6 Depth 20	M6 Depth 20	M12 Depth 25	M12 Depth 25

▼ X6MG085S/X6MG130S/X6MG180S/X6MG290S/X6MG440S



X2MA-Low inertia

X2MM-Middle inertia

X2MH-High inertia

X2MG-Low-speed &high-torque

X2MGS-Low-cogging cutting series

**Model Selection
for Servo Drive and Servo Motor**

MEMO



Series name	Power	Model name	20bit		Brake		Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	[] Control mode		[A] Pulse control / [B] EtherCAT / [K]MECHATROLINK-III / [R] Profinet		Power specifications
			Absolute	Incremental	Yes	No									General-purpose:Y7N[]---	Standard:Y7E[]---	Full-functional:Y7F[]---		
X2-MA Low Inertia Series	100W	SV-X2MA010A-N2LA	●			●		40	φ8	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳		X2-MA Low Inertia Series	100W	HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MA010A-B2LA	●		●					Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
	200W	SV-X2MA020A-N2CA	●			●		60	φ14	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X2MA020A-B2CA	●		●					Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X2MA020A-N2CN			●					Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X2MA020A-B2CN			●					Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
	400W	SV-X2MA040A-N2CA	●			●		60	φ14	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X2MA040A-B2CA	●		●					Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X2MA040A-N2CN			●					Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X2MA040A-B2CN			●					Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
	600W	SV-X2MA060E-N2LA	●			●		110	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]075A-S	HN-Y7F[]075A-S	Single-phase AC220V		
		SV-X2MA060E-B2LA	●		●			110	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]075A-S	HN-Y7F[]075A-S	Single-phase AC220V		
		SV-X2MA060E-N2LN			●			110	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]075A-S	HN-Y7F[]075A-S	Single-phase AC220V		
		SV-X2MA060E-B2LN			●			110	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]075A-S	HN-Y7F[]075A-S	Single-phase AC220V		
	750W	SV-X2MA075A-N2CA	●			●		80	φ19	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V		
		SV-X2MA075A-B2CA	●		●			80	φ19	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V		
		SV-X2MA075A-N2CN			●			80	φ19	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V		
		SV-X2MA075A-B2CN			●			80	φ19	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V		
	900W	SV-X2MA090E-N2LN			●			110	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V		
		SV-X2MA090E-B2LN			●			110	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V		
		SV-X2MA090E-N2LA			●			110	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V		
		SV-X2MA090E-B2LA			●			110	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V		
	1kW	SV-X2MA100A-N2LA	●			●		100	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]150A-S	HN-Y7F[]150A-S	Three-phase AC220V		
		SV-X2MA100A-B2LA	●		●			100	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]150A-S	HN-Y7F[]150A-S	Three-phase AC220V		
		SV-X2MA100A-N2LN			●			100	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]150A-S	HN-Y7F[]150A-S	Three-phase AC220V		
		SV-X2MA100A-B2LN			●			100	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]150A-S	HN-Y7F[]150A-S	Three-phase AC220V		
	1.2kW	SV-X2MA120E-N2LA	●			●		110	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]150A-S	HN-Y7F[]150A-S	Three-phase AC220V		
		SV-X2MA120E-B2LA	●		●			110	φ19	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪								

Series name	Power	Model name	20bit		Brake		Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	Control mode		Pulse control / [B] EtherCAT / [K] MECHATROLINK-III / [R] Profinet		Power specifications	Notes				
			Absolute	Incremental	Yes	No									General-purpose:Y7N[---]	Standard:Y7E[---]	Full-functional:Y7F[---]							
X2-MA Low Inertia Series	1.8kW	SV-X2MA180E-N2LA	●			●		110	φ19	Aviation connector	⑪ ⑫ ⑬ ⑯			X2-MA Low Inertia Series	1.8kW	General-purpose:Y7N[---]		Standard:Y7E[---]		Three-phase AC220V				
		SV-X2MA180E-B2LA		●		●		110	φ19	Aviation connector	⑪ ⑫ ⑭ ⑯ ⑯					HN-Y7N[]200A-S		HN-Y7E[]200A-S						
		SV-X2MA180E-N2LN		●		●		110	φ19	Aviation connector	⑪ ⑫					HN-Y7F[]200A-S		HN-Y7E[]200A-S						
		SV-X2MA180E-B2LN		●		●		100	φ19	Aviation connector	⑪ ⑫ ⑯ ⑯					HN-Y7F[]200A-S		HN-Y7E[]200A-S						
	2kW	SV-X2MA200A-N2LA	●			●				Aviation connector	⑪ ⑫ ⑬ ⑯					HN-Y7N[]200A-S		HN-Y7E[]200A-S		Three-phase AC220V				
		SV-X2MA200A-B2LA		●		●				Aviation connector	⑪ ⑫ ⑯ ⑯ ⑯					HN-Y7F[]200A-S		HN-Y7E[]200A-S						
		SV-X2MA200A-N2LN		●		●				Aviation connector	⑪ ⑫					HN-Y7F[]200A-S		HN-Y7E[]200A-S						
		SV-X2MA200A-B2LN		●		●				Aviation connector	⑪ ⑫ ⑯					HN-Y7F[]200A-S		HN-Y7E[]200A-S						
X2-MM Middle Inertia series	1kW	SV-X2MM100A-N2LA	●			●				Aviation connector	⑪ ⑫ ⑬ ⑯			X2-MM Middle Inertia series	1kW	General-purpose:Y7N[---]		Standard:Y7E[---]		Three-phase AC220V				
		SV-X2MM100A-B2LA		●		●				Aviation connector	⑪ ⑬ ⑯					HN-Y7N[]100A-S		HN-Y7E[]100A-S						
		SV-X2MM100A-N2LN		●		●				Aviation connector	⑪ ⑫					HN-Y7F[]100A-S		HN-Y7E[]100A-S						
		SV-X2MM100A-B2LN		●		●				Aviation connector	⑪ ⑬					HN-Y7F[]100A-S		HN-Y7E[]100A-S						
	1.5kW	SV-X2MM150A-N2LA	●			●				Aviation connector	⑪ ⑫ ⑬ ⑯					HN-Y7N[]150A-S		HN-Y7E[]150A-S		Three-phase AC220V				
		SV-X2MM150A-B2LA		●		●				Aviation connector	⑪ ⑬ ⑯ ⑯					HN-Y7F[]150A-S		HN-Y7E[]150A-S						
		SV-X2MM150A-N2LN		●		●				Aviation connector	⑪ ⑫					HN-Y7F[]150A-S		HN-Y7E[]150A-S						
		SV-X2MM150A-B2LN		●		●				Aviation connector	⑪ ⑬					HN-Y7F[]150A-S		HN-Y7E[]150A-S						
	2kW	SV-X2MM200A-N2LA	●			●				Aviation connector	⑪ ⑫ ⑬ ⑯					HN-Y7N[]200A-S		HN-Y7E[]200A-S		Three-phase AC220V				
		SV-X2MM200A-B2LA		●		●				Aviation connector	⑪ ⑬ ⑯ ⑯					HN-Y7F[]200A-S		HN-Y7E[]200A-S						
		SV-X2MM200A-N2LN		●		●				Aviation connector	⑪ ⑫					HN-Y7F[]200A-S		HN-Y7E[]200A-S						
		SV-X2MM200A-B2LN		●		●				Aviation connector	⑪ ⑬					HN-Y7F[]200A-S		HN-Y7E[]200A-S						
X2-MM Middle Inertia & High Speed series	1kW	SV-X2MM100S-N2LA	●			●				Aviation connector	⑪ ⑫ ⑬ ⑯			X2-MM Middle Inertia & High Speed series	1kW	General-purpose:Y7N[---]		Standard:Y7E[---]		Three-phase AC220V				
		SV-X2MM100S-B2LA		●		●				Aviation connector	⑪ ⑬ ⑯ ⑯					HN-Y7N[]150A-S		HN-Y7E[]150A-S						
		SV-X2MM100S-N2LN		●		●				Aviation connector	⑪ ⑫					HN-Y7F[]150A-S		HN-Y7E[]150A-S						
		SV-X2MM100S-B2LN		●		●				Aviation connector	⑪ ⑬					HN-Y7F[]150A-S		HN-Y7E[]150A-S						
	1.5kW	SV-X2MM150S-N2LA	●			●				Aviation connector	⑪ ⑫ ⑬ ⑯					HN-Y7N[]150A-S		HN-Y7E[]150A-S		Three-phase AC220V				
		SV-X2MM150S-B2LA		●		●				Aviation connector	⑪ ⑬ ⑯ ⑯					HN-Y7F[]150A-S		HN-Y7E[]150A-S						
		SV-X2MM150S-N2LN		●		●				Aviation connector	⑪ ⑫					HN-Y7F[]150A-S		HN-Y7E[]150A-S						
		SV-X2MM150S-B2LN		●		●				Aviation connector	⑪ ⑬					HN-Y7F[]150A-S		HN-Y7E[]150A-S						
	2kW	SV-X2MM200S-N2LA	●			●				Aviation connector	⑪ ⑫ ⑬ ⑯					HN-Y7N[]200A-S		HN-Y7E[]200A-S		Three-phase AC220V				
		SV-X2MM200S-B2LA		●		●				Aviation connector	⑪ ⑬ ⑯ ⑯					HN-Y7F[]200A-S		HN-Y7E[]200A-S						
		SV-X2MM200S-N2LN		●		●				Aviation connector	⑪ ⑫					HN-Y7F[]200A-S		HN-Y7E[]						

Series name	Power	Model name	20bit		Brake		Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	Control mode			Pulse control / EtherCAT / MECHATROLINK-III / Profinet			Power specifications	Notes	
			Absolute	Incremental	Yes	No									General-purpose:Y7N[---]			Standard:Y7E[---]		Full-functional:Y7F[---]			
X2-MH High Inertia series	50W	SV-X2MH005A-N2CA									① ③ ③1		X2-MH High Inertia series	50W	HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH005A-B2CA	●				●	40	φ8	Connector-type	① ④ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH005A-N2CN		●			●				② ③				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH005A-B2CN		●			●				② ④				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
	100W	SV-X2MH010A-N2CA	●				●	40	φ8	Connector-type	① ③ ③1			100W	HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH010A-B2CA		●			●	40	φ8	Connector-type	① ④ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH010A-N2CN		●			●				② ③				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH010A-B2CN		●			●				② ④				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
	150W	SV-X2MH015A-N2CA	●				●				① ③ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH015A-B2CA		●			●				① ④ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH015A-N2CN		●			●				② ③				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH015A-B2CN		●			●				② ④				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
	200W	SV-X2MH020A-N2CA	●				●				① ⑤ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH020A-B2CA		●			●				① ⑥ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH020A-N2CN		●			●				② ⑤				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH020A-B2CN		●			●				② ⑥				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
	400W	SV-X2MH040A-N2CA	●				●				① ⑤ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH040A-B2CA		●			●				① ⑥ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH040A-N2CN		●			●				② ⑤				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X2MH040A-B2CN		●			●				② ⑥				HN-Y7N[]040A-S			HN-Y7E[]040A-S			HN-Y7F[]040A-S	Single-phase AC220V	
	750W	SV-X2MH075A-N2CA	●				●				① ⑤ ③1				HN-Y7N[]075A-S			HN-Y7E[]075A-S			HN-Y7F[]075A-S	Single-phase AC220V	
		SV-X2MH075A-B2CA		●			●				① ⑥ ③1				HN-Y7N[]075A-S			HN-Y7E[]075A-S			HN-Y7F[]075A-S	Single-phase AC220V	
		SV-X2MH075A-N2CN		●			●				② ⑤				HN-Y7N[]075A-S			HN-Y7E[]075A-S			HN-Y7F[]075A-S	Single-phase AC220V	
		SV-X2MH075A-B2CN		●			●				② ⑥				HN-Y7N[]075A-S			HN-Y7E[]075A-S			HN-Y7F[]075A-S	Single-phase AC220V	
	1kW	SV-X2MH100A-N2LA	●				●				⑪ ⑫ ⑬1				HN-Y7N[]100A-S			HN-Y7E[]100A-S			HN-Y7F[]100A-S	Three-phase AC220V	
		SV-X2MH100A-B2LA		●			●				⑪ ⑬ ⑭1				HN-Y7N[]100A-S			HN-Y7E[]100A-S			HN-Y7F[]100A-S	Three-phase AC220V	
		SV-X2MH100A-N2LN		●			●				⑪ ⑫				HN-Y7N[]100A-S			HN-Y7E[]100A-S			HN-Y7F[]100A-S	Three-phase AC220V	
		SV-X2MH100A-B2LN		●			●				⑪ ⑬				HN-Y7N[]100A-S			HN-Y7E[]100A-S			HN-Y7F[]100A-S	Three-phase AC220V	
	1.5kW	SV-X2MH150A-N2LA	●				●				⑪ ⑫ ⑬1				HN-Y7N[]150A-S			HN-Y7E[]150A-S			HN-Y7F[]150A-S	Three-phase AC220V	
		SV-X2MH150A-B2LA		●			●				⑪ ⑬ ⑭1				HN-Y7N[]150A-S			HN-Y7E[]150A-S			HN-Y7F[]150A-S	Three-phase AC220V	
		SV-X2MH150A-N2LN		●			●				⑪ ⑫				HN-Y7N[]150A-S			HN-Y7E[]150A-S			HN-Y7F[]150A-S	Three-phase AC220V	
		SV-X2MH150A-B2LN		●			●				⑪ ⑬				HN-Y7N[]150A-S			HN-Y7E[]150A-S			HN-Y7F[]150A-S	Three-phase AC220V	

Accessories specifications for connector-type servo motors of flange 40 to 80

- ① SVCAB-ENC075CA-ABS-***L-05 Absolute encoder cable
- ② SVCAB-ENC075CA-***L-05 Incremental encoder cable
- ③ SVCAB-PWR010CA-***L-05 UVW power cable(no brake) 50W to 100W
- ④ SVCAB-PWB010CA-***L-05 UVW power cable(with brake) 50W to 100W
- ⑤ SVCAB-PWR075CA-***L-05 UVW power cable(no brake) 200W to 1KW
- ⑥ SVCAB-PWB075CA-***L-05 UVW power cable(with brake) 200W to 1KW

Aviation connector specifications for servo motor of flange 100&130&180

- ⑪ ENC-TE-LW 1KW Encoder accessories (10-pin aviation connector + 1394 connector)
- ⑫ PWR-CON 1KW 4-core power aviation connector, for flange 100&130
- ⑬ PWR-CON 1KW-9P 9-pin brake power aviation connector, for flange 100&130</li

Series name	Power	Model name	20bit		Brake		Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	Control mode			Pulse control / EtherCAT / MECHATROLINK-III / Profinet			Power specifications	Notes			
			Absolute	Incremental	Yes	No									General-purpose:Y7N[---]			Standard:Y7E[---]		Full-functional:Y7F[---]					
X2-MHH Ultra-high Inertia series	100W	SV-X2MH010H-N2CA									① ③ ③1		X2-MHH Ultra-high Inertia series	100W	HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S		Single-phase AC220V			
		SV-X2MH010H-B2CA	●				●	40	φ8	Connector-type	① ④ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
		SV-X2MH010H-N2CN		●			●				② ③				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
		SV-X2MH010H-B2CN		●			●				② ④				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
	200W	SV-X2MH020H-N2LA	●				●	60	φ14	Lead-wire type	②1 ②2 ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S		Single-phase AC220V			
		SV-X2MH020H-B2LA		●			●				②1 ②2 ③1 ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
		SV-X2MH020H-N2LN		●			●				②1 ②2				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
		SV-X2MH020H-B2LN		●			●				②1 ②3				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
	400W	SV-X2MH040H-N2CA	●				●	60	φ14	Connector-type	① ⑤ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S		Single-phase AC220V			
		SV-X2MH040H-B2CA		●			●				① ⑥ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
		SV-X2MH040H-N2CN		●			●				② ⑤				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
		SV-X2MH040H-B2CN		●			●				② ⑥				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
	750W	SV-X2MH075H-N2LA	●				●	80	φ19	Lead-wire type	②1 ②2 ③1				HN-Y7N[]075A-S			HN-Y7E[]075A-S		HN-Y7F[]075A-S		Single-phase AC220V			
		SV-X2MH075H-B2LA		●			●				②1 ②2 ③1 ③1				HN-Y7N[]075A-S			HN-Y7E[]075A-S		HN-Y7F[]075A-S					
		SV-X2MH075H-N2LN		●			●				②1 ②2				HN-Y7N[]075A-S			HN-Y7E[]075A-S		HN-Y7F[]075A-S					
		SV-X2MH075H-B2LN		●			●				②1 ②3				HN-Y7N[]075A-S			HN-Y7E[]075A-S		HN-Y7F[]075A-S					
X2-MQ Special Flange/ Flat-type/ Small flange	100W	SV-X2MQ010A-N2KA	●					60	φ8	Lead-wire type	②1 ②2 ③1		X2-MQ Special Flange/ Flat-type/ Small flange	100W	HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S		Single-phase AC220V			
		SV-X2MQ010A-B2KA		●			●				②1 ②2 ③1 ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
		SV-X2MQ010A-N2LA		●			●	60	φ8	Lead-wire type	②1 ②2 ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
		SV-X2MQ010A-B2LA		●			●				②1 ②2 ③1 ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
	200W	SV-X2MQ020A-N2LA	●				●	80	φ11	Lead-wire type	②1 ②2 ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S		Single-phase AC220V			
		SV-X2MQ020A-B2LA		●			●				②1 ②2 ③1 ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
		SV-X2MQ040A-N2LA		●			●	80	φ14	Lead-wire type	②1 ②2 ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
		SV-X2MQ040A-B2LA		●			●				① ⑤ ③1				HN-Y7N[]040A-S			HN-Y7E[]040A-S		HN-Y7F[]040A-S					
X2-MQ Special Flange/ Flat-type/ Small flange	1kW	SV-X2MQ100E-N2CA	●				●	80	φ19	Connector-type	① ⑤ ③1				HN-Y7N[]100A-S			HN-Y7E[]100A-S		HN-Y7F[]100A-S		Three-phase AC220V			
		SV-X2MQ100E-B2CA		●			●				① ⑥ ③1				HN-Y7N[]100A-S			HN-Y7E[]100A-S		HN-Y7F[]100A-S					
		SV-X2MQ100E-N2																							

Series name	Power	Model name	20bit		Brake		Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	Control mode		Pulse control / EtherCAT / MECHATROLINK-III / Profinet			Power specifications	Notes
			Absolute	Incremental	Yes	No									General-purpose:Y7N[]---		Standard:Y7E[]---		Full-functional:Y7F[]---		
X2-MG Low-speed & High-torque	750W	SV-X2MG075A-N2LA									① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰		750W	HN-Y7N[]075A-S	HN-Y7E[]075A-S	HN-Y7F[]075A-S	Single-phase AC220V				
		SV-X2MG075A-B2LA	●				●	80	φ19	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG075A-N2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG075A-B2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
	1kW	SV-X2MG100A-N2LA	●				●	130	φ22	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG100A-B2LA		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG100A-N2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG100A-B2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
	850W	SV-X2MG085A-N2LA	●				●	130	φ22	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG085A-B2LA		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG085A-N2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG085A-B2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
	1.3kW	SV-X2MG130A-N2LA	●				●	130	φ22	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG130A-B2LA		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG130A-N2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG130A-B2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
	1.8kW	SV-X2MG180A-N2LA	●				●	130	φ22	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG180A-B2LA		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG180A-N2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG180A-B2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
	2.3kW	SV-X2MG230A-N2LA	●				●	130	φ22	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG230A-B2LA		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG230A-N2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										
		SV-X2MG230A-B2LN		●			●				① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰										

Accessories specifications for connector-type servo motors of flange 40 to 80

- ① SVCAB-ENC075CA-ABS-***L-05 Absolute encoder cable
- ② SVCAB-ENC075CA-***L-05 Incremental encoder cable
- ③ SVCAB-PWR010CA-***L-05 UVW power cable(no brake) 50W to 100W
- ④ SVCAB-PWB010CA-***L-05 UVW power cable(with brake) 50W to 100W
- ⑤ SVCAB-PWR075CA-***L-05 UVW power cable(no brake) 200W to 1KW
- ⑥ SVCAB-PWB075CA-***L-05 UVW power cable(with brake) 200W to 1KW

Aviation connector specifications for servo motor of flange 100&130&180

- ⑪ ENC-TE-LW 1KW Encoder accessories (10-pin aviation connector + 1394 connector)
- ⑫ PWR-CON 1KW 4-core power aviation connector, for flange

Series name	Power	Model name	23bit		20bit		Brake		Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	[]Control mode		[A] Pulse control / [B] EtherCAT / [K] MECHATROLINK-III / [R] Profinet			Power specifications	Notes				
			Absolute	Absolute	Incremental	Yes	No	General-purpose:Y7N[]---									Standard:Y7E[]---	Full-functional:Y7F[]---									
X6-MA Low Inertia Series	100W	SV-X6MA010A-N2LD	●					●		●	40	Φ8	Lead-wire type	21 22 31 21 22 23 31		X6-MA Low Inertia Series	100W	HN-Y7N[]040A-S		HN-Y7E[]040A-S			HN-Y7F[]040A-S		Single-phase AC220V		
		SV-X6MA010A-B2LD				●			●		60	Φ14	Lead-wire type	21 22 31 21 22 23 31				HN-Y7E[]040A-S		HN-Y7F[]040A-S			HN-Y7F[]040A-S		Single-phase AC220V		
	200W	SV-X6MA020A-N2LD	●					●		●	60	Φ14	Lead-wire type	21 22 31 21 22 23 31			200W	HN-Y7N[]040A-S		HN-Y7E[]040A-S			HN-Y7F[]040A-S		Single-phase AC220V		
		SV-X6MA020A-B2LD				●		●		●	60	Φ14	Connector-type	1 5 31 1 6 31				HN-Y7E[]040A-S		HN-Y7F[]040A-S			HN-Y7F[]040A-S		Single-phase AC220V		
		SV-X6MA020A-N2CD	●					●		●	60	Φ14	Lead-wire type	21 22 31 21 22 23 31				HN-Y7N[]040A-S		HN-Y7E[]040A-S			HN-Y7F[]040A-S		Single-phase AC220V		
		SV-X6MA020A-B2CD				●		●		●	60	Φ14	Connector-type	1 5 31 1 6 31				HN-Y7E[]040A-S		HN-Y7F[]040A-S			HN-Y7F[]040A-S		Single-phase AC220V		
	400W	SV-X6MA040A-N2LD	●					●		●	60	Φ14	Lead-wire type	21 22 31 21 22 23 31				HN-Y7N[]040A-S		HN-Y7E[]040A-S			HN-Y7F[]040A-S		Single-phase AC220V		
		SV-X6MA040A-B2LD				●		●		●	60	Φ14	Lead-wire type	21 22 31 21 22 23 31				HN-Y7E[]040A-S		HN-Y7F[]040A-S			HN-Y7F[]040A-S		Single-phase AC220V		
		SV-X6MA040A-N2CD	●					●		●	60	Φ14	Connector-type	1 5 31 1 6 31				HN-Y7N[]040A-S		HN-Y7E[]040A-S			HN-Y7F[]040A-S		Single-phase AC220V		
		SV-X6MA040A-B2CD				●		●		●	60	Φ14	Connector-type	1 5 31 1 6 31				HN-Y7E[]040A-S		HN-Y7F[]040A-S			HN-Y7F[]040A-S		Single-phase AC220V		
	600W	SV-X6MA060E-N2LD	●					●		●	110	Φ19	Aviation connector	11 12 31 11 12 14 31				HN-Y7N[]075A-S		HN-Y7E[]075A-S			HN-Y7F[]075A-S		Single-phase AC220V		
		SV-X6MA060E-B2LD				●		●		●	110	Φ19	Aviation connector	11 12 14 31				HN-Y7E[]075A-S		HN-Y7F[]075A-S			HN-Y7F[]075A-S		Single-phase AC220V		
	750W	SV-X6MA075A-N2LD	●					●		●	80	Φ19	Lead-wire type	21 22 31 21 22 23 31				HN-Y7N[]075A-S		HN-Y7E[]075A-S			HN-Y7F[]075A-S		Single-phase AC220V		
		SV-X6MA075A-B2LD				●		●		●	80	Φ19	Lead-wire type	21 22 31 21 22 23 31				HN-Y7E[]075A-S		HN-Y7F[]075A-S			HN-Y7F[]075A-S		Single-phase AC220V		
		SV-X6MA075A-N2CD	●					●		●	80	Φ19	Connector-type	1 5 31 1 6 31				HN-Y7N[]075A-S		HN-Y7E[]075A-S			HN-Y7F[]075A-S		Single-phase AC220V		
		SV-X6MA075A-B2CD				●		●		●	80	Φ19	Connector-type	1 5 31 1 6 31				HN-Y7E[]075A-S		HN-Y7F[]075A-S			HN-Y7F[]075A-S		Single-phase AC220V		
	900W	SV-X6MA090E-N2LD	●					●		●	110	Φ19	Aviation connector	11 12 31 11 12 14 31				HN-Y7N[]100A-S		HN-Y7E[]100A-S			HN-Y7F[]100A-S		Three-phase AC220V		
		SV-X6MA090E-B2LD				●		●		●	110	Φ19	Aviation connector	11 12 14 31				HN-Y7E[]100A-S		HN-Y7F[]100A-S			HN-Y7F[]100A-S		Three-phase AC220V		
	1kW	SV-X6MA100A-N2LD	●					●		●	100	Φ19	Aviation connector	11 12 31 11 12 14 31				HN-Y7N[]100A-S		HN-Y7E[]100A-S			HN-Y7F[]100A-S		Three-phase AC220V		
		SV-X6MA100A-B2LD				●		●		●	100	Φ19	Aviation connector	11 12 14 31				HN-Y7E[]100A-S		HN-Y7F[]100A-S			HN-Y7F[]100A-S		Three-phase AC220V		
	1.2kW	SV-X6MA120E-N2LD	●					●		●	110	Φ19	Aviation connector	11 12 31 11 12 14 31				HN-Y7N[]150A-S		HN-Y7E[]150A-S			HN-Y7F[]150A-S		Three-phase AC220V		
		SV-X6MA120E-B2LD				●		●		●	110	Φ19	Aviation connector	11 12 14 31				HN-Y7E[]150A-S		HN-Y7F[]150A-S			HN-Y7F[]150A-S		Three-phase AC220V		
	1.5kW	SV-X6MA150A-N2LD	●					●		●	110	Φ19	Aviation connector	11 12 31 11 12 14 31				HN-Y7N[]150A-S		HN-Y7E[]150A-S			HN-Y7F[]150A-S		Three-phase AC220V		
		SV-X6MA150A-B2LD				●		●		●	110	Φ19	Aviation connector	11 12 14 31				HN-Y7E[]150A-S		HN-Y7F[]150A-S			HN-Y7F[]150A-S		Three-phase AC220V		
		SV-X6MA150E-N2LD	●					●		●	100	Φ19	Aviation connector	11 12 31 11 12 14 31				HN-Y7N[]150A-S		HN-Y7E[]150A-S			HN-Y7F[]150A-S		Three-phase AC220V		
		SV-X6MA150E-B2LD				●		●		●	100	Φ19	Aviation connector	11 12 14 31				HN-Y7E[]150A-S		HN-Y7F[]150A-S			HN-Y7F[]150A-S		Three-phase AC220V		
	1.8kW	SV-X6MA180E-N2LD	●					●		●	110	Φ19	Aviation connector	11 12 31 11 12 14 31				HN-Y7N[]200A-S		HN-Y7E[]200A-S			HN-Y7F[]200A-S		Three-phase AC220V		
		SV-X6MA180E-B2LD				●		●		●	110	Φ19	Aviation connector	11 12 31 11 12 14 31				HN-Y7E[]200A-S		HN-Y7F[]200A-S			HN-Y7F[]200A-S		Three-phase AC220V		
	2kW	SV-X6MA200A-N2LD	●					●		●	110	Φ19	Aviation connector	11 12 31 11 12 14 31				HN-Y7N[]200A-S		HN-Y7E[]200A-S			HN-Y7F[]200A-S		Three-phase AC220V		
		SV-X6MA200A-B2LD				●		●		●	110	Φ19	Aviation connector	11 12 31 11 12 14 31				HN-Y7E[]200A-S		HN-Y7F[]200A-S			HN-Y7F[]200A-S		Three-phase AC220V		

▼ Accessories specifications for connector-type servo motors of flange 40 to 80

- | | | |
|---|----------------------------|--|
| ① | SVCAB-ENC075CA-ABS-***L-05 | Absolute encoder cable |
| ② | SVCAB-ENC075CA-***L-05 | Incremental encoder cable |
| ③ | SVCAB-PWR010CA-***L-05 | UVW power cable(no brake)
50W to 100W |
| ④ | SVCAB-PWB010CA-***L-05 | UVW power cable(with brake)
50W to 100W |
| ⑤ | SVCAB-PWR075CA-***L-05 | UVW power cable(no brake)
200W to 1KW |
| ⑥ | SVCAB-PWB075CA-***L-05 | UVW power cable(with brake)
200W to 1KW |

- ▶ Aviation connector specifications for servo motor of flange 100&130&180

- ⑪ ENC-TE-LW 1KW Encoder accessories (10-pin aviation connector + 1394 connector)
 - ⑫ PWR-CON 1KW 4-core power aviation connector, for flange 100&130
 - ⑬ PWR-CON 1KW-9P 9-pin brake power aviation connector, for flange 100&130
 - ⑭ PWB-CON- 1KW 2-core brake power connector
 - ⑮ PWR-CON 7.5KW 4-core power aviation connector, for flange 180

▼ Accessories specifications for lead-wire type servo motor of flange 40 to 80

- ②1 ENC-TE 750W 2 packs of encoder accessories (6-hole plastic connector + 1394 connector)
 - ②2 PWR-CON 750W 4-hole power plastic connector
 - ②3 PWB-CON 750W 2-hole power brake plastic connector

▼ Other accessories specifications

- 31 SV-BAT Absolute battery box



Series name	Power	Model name	23bit		20bit		Brake		Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	[] Control mode [A] Pulse control / [B] EtherCAT / [K] MECHATROLINK-III / [R] Profinet			Power specifications	Notes	
			Absolute	Absolute	Incremental		Yes	No									General-purpose:Y7N[]---	Standard:Y7E[]---	Full-functional:Y7F[]---			
X2-MM Middle Inertia series	1kW	SV-X6MM100A-N2LD	●					●		●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯		X2-MM Middle Inertia series	1kW	HN-Y7N[]100A-S	HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V	
		SV-X6MM100A-B2LD		●			●		●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯		HN-Y7N[]150A-S		HN-Y7E[]150A-S	HN-Y7F[]150A-S				
	1.5kW	SV-X6MM150A-N2LD	●					●		●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯			1.5kW	HN-Y7N[]200A-S	HN-Y7E[]200A-S	HN-Y7F[]200A-S	Three-phase AC220V	
		SV-X6MM150A-B2LD		●			●		●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯		HN-Y7N[]150A-S		HN-Y7E[]150A-S	HN-Y7F[]150A-S				
		SV-X6MM200A-N2LD	●					●		●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯			HN-Y7N[]200A-S	HN-Y7E[]200A-S	HN-Y7F[]200A-S			
X6-MMS Middle Inertia series	1kW	SV-X6MM100S-N2LD	●					●		●	100	φ19	Aviation connector	⑪ ⑫ ⑬ ⑯		X6-MMS Middle Inertia series	1kW	HN-Y7N[]150A-S	HN-Y7E[]150A-S	HN-Y7F[]150A-S	Three-phase AC220V	
		SV-X6MM100S-B2LD		●			●		●	100	φ19	Aviation connector	⑪ ⑫ ⑬ ⑯		HN-Y7N[]150A-S		HN-Y7E[]150A-S	HN-Y7F[]150A-S				
	1.5kW	SV-X6MM150S-N2LD	●					●		●	100	φ19	Aviation connector	⑪ ⑫ ⑬ ⑯			1.5kW	HN-Y7N[]200A-S	HN-Y7E[]200A-S	HN-Y7F[]200A-S	Three-phase AC220V	
		SV-X6MM150S-B2LD		●			●		●	100	φ19	Aviation connector	⑪ ⑫ ⑬ ⑯		HN-Y7N[]150A-S		HN-Y7E[]150A-S	HN-Y7F[]150A-S				
		SV-X6MM200S-N2LD	●					●		●	100	φ19	Aviation connector	⑪ ⑫ ⑬ ⑯			HN-Y7N[]200A-S	HN-Y7E[]200A-S	HN-Y7F[]200A-S			
	2kW	SV-X6MM200S-B2LD		●			●		●	100	φ19	Aviation connector	⑪ ⑫ ⑬ ⑯		HN-Y7N[]200A-S		HN-Y7E[]200A-S	HN-Y7F[]200A-S	Three-phase AC220V			

▼ Accessories specifications for connector-type servo motors of flange 40 to 80

- | | | |
|---|------------------------|--|
| ① | SVCAB-ENC075CA-***L-05 | Absolute encoder cable |
| ② | SVCAB-ENC075CA-***L-05 | Incremental encoder cable |
| ③ | SVCAB-PWR010CA-***L-05 | UVW power cable(no brake)
50W to 100W |
| ④ | SVCAB-PWB010CA-***L-05 | UVW power cable(with brake)
50W to 100W |
| ⑤ | SVCAB-PWR075CA-***L-05 | UVW power cable(no brake)
200W to 1KW |
| ⑥ | SVCAB-PWB075CA-***L-05 | UVW power cable(with brake)
200W to 1KW |

► Aviation connector specifications for servo motor of flange 100&130&180

- ⑪ ENC-TE-LW 1KW Encoder accessories (10-pin aviation connector + 1394 connector)
 - ⑫ PWR-CON 1KW 4-core power aviation connector, for flange 100&130
 - ⑬ PWR-CON 1KW-9P 9-pin brake power aviation connector, for flange 100&130
 - ⑭ PWB-CON- 1KW 2-core brake power connector
 - ⑮ PWR-CON 7.5KW 4-core power aviation connector, for flange 180

▼ Accessories specifications for lead-wire type servo motor of flange 40 to 80

- | | | |
|----|--------------|--|
| 21 | ENC-TE 750W | 2 packs of encoder accessories (6-hole plastic connector + 1394 connector) |
| 22 | PWR-CON 750W | 4-hole power plastic connector |
| 23 | PWB-CON 750W | 2-hole power brake plastic connector |

▼ Other accessories specifications

- 31 SV-BAT Absolute battery box



Series name	Power	Model name	23bit Absolute	20bit Absolute	Incremental	Brake Yes No	Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	Control mode			Power specifications	Notes
															[] Control mode General-purpose:Y7N[]---	[A] Pulse control / [B] EtherCAT / [K] MECHATROLINK-III / [R] Profinet Standard:Y7E[]---	[] Full-functional:Y7F[]---		
X6-MH High Inertia series	50W	SV-X6MH005A-N2LD	●			●	●	40	Φ8	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳	X6-MH High Inertia series	50W	HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH005A-B2LD	●			●	●	40	Φ8	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH005A-N2CD	●			●	●	40	Φ8	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH005A-B2CD	●			●	●	40	Φ8	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
	100W	SV-X6MH010A-N2LD	●			●	●	40	Φ8	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH010A-B2LD	●			●	●	40	Φ8	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH010A-N2CD	●			●	●	40	Φ8	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH010A-B2CD	●			●	●	40	Φ8	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
	150W	SV-X6MH015A-N2LD	●			●	●	40	Φ8	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH015A-B2LD	●			●	●	40	Φ8	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH015A-N2CD	●			●	●	40	Φ8	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH015A-B2CD	●			●	●	40	Φ8	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
	200W	SV-X6MH020A-N2LD	●			●	●	40	Φ14	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH020A-B2LD	●			●	●	40	Φ14	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH020A-N2CD	●			●	●	60	Φ14	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH020A-B2CD	●			●	●	60	Φ14	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
	400W	SV-X6MH040A-N2LD	●			●	●	60	Φ14	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH040A-B2LD	●			●	●	60	Φ14	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH040A-N2CD	●			●	●	80	Φ19	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
		SV-X6MH040A-B2CD	●			●	●	80	Φ19	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V		
	750W	SV-X6MH075A-N2LD	●			●	●	80	Φ19	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]075A-S	HN-Y7E[]075A-S	HN-Y7F[]075A-S	Three-phase AC220V		
		SV-X6MH075A-B2LD	●			●	●	80	Φ19	Connector-type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]075A-S	HN-Y7E[]075A-S	HN-Y7F[]075A-S	Three-phase AC220V		
		SV-X6MH075A-N2CD	●			●	●	130	Φ22	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]100A-S	HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V		
		SV-X6MH075A-B2CD	●			●	●	130	Φ22	Aviation connector	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳			HN-Y7N[]150A-S	HN-Y7E[]150A-S	HN-Y7F[]150A-S	Three-phase AC220V		
X6-MHH Ultra-high Inertia series	100W	SV-X6MH010H-N2LD	●			●	●	40	Φ8	Lead-wire type	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳	X6-MHH Ultra-high Inertia series	100W	HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Three-phase AC220V		

Series name	Power	Model name	23bit		20bit		Brake		Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	[] Control mode [A] Pulse control / [B] EtherCAT / [K] MECHATROLINK-III / [R] Profinet			Power specifications	Notes
			Absolute	Absolute	Absolute	Incremental	Yes	No									General-purpose: Y7N[]---	Standard: Y7E[]---	Full-functional: Y7F[]---		
X6-MQ	100W	SV-X6MQ010A-N2KD	●					●		60	Φ8	Lead-wire type	21 22 31		X6-MQ	100W	HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X6MQ010A-B2KD		●			●			60	Φ8	Lead-wire type	21 22 23 31				HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X6MQ010A-N2LD	●				●	●	●	60	Φ8	Lead-wire type	21 22 31				HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X6MQ010A-B2LD		●			●		●	60	Φ11	Lead-wire type	21 22 31				HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V	
	200W	SV-X6MQ020A-N2LD	●				●	●	●	60	Φ11	Lead-wire type	21 22 31		Special Flange/ Flat-type/ Small flange	200W	HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X6MQ020A-B2LD		●			●		●	60	Φ11	Lead-wire type	21 22 23 31				HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X6MQ040A-N2LD	●				●	●	●	80	Φ14	Lead-wire type	21 22 31				HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V	
		SV-X6MQ040A-B2LD		●			●		●	80	Φ14	Lead-wire type	21 22 23 31				HN-Y7N[]040A-S	HN-Y7E[]040A-S	HN-Y7F[]040A-S	Single-phase AC220V	
X6-MG Low-speed & High-torque	1kW	SV-X6MG075A-N2LD	●				●	●	●	80	Φ19	Lead-wire type	21 22 31		X6-MG Low-speed & High-torque	750W	HN-Y7N[]075A-S	HN-Y7E[]075A-S	HN-Y7F[]075A-S	Single-phase AC220V	
		SV-X6MG075A-B2LD		●			●		●	80	Φ19	Lead-wire type	21 22 23 31				HN-Y7N[]075A-S	HN-Y7E[]075A-S	HN-Y7F[]075A-S	Single-phase AC220V	
		SV-X6MG100A-N2LD	●				●	●	●	130	Φ22	Aviation connector	11 12 31				HN-Y7N[]100A-S	HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V	
		SV-X6MG100A-B2LD		●			●		●	130	Φ22	Aviation connector	11 13 31				HN-Y7N[]100A-S	HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V	
	850W	SV-X6MG085A-N2LD	●				●	●	●	130	Φ22	Aviation connector	11 12 31			850W	HN-Y7N[]100A-S	HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V	
		SV-X6MG085A-B2LD		●			●		●	130	Φ22	Aviation connector	11 13 31				HN-Y7N[]100A-S	HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V	
		SV-X6MG130A-N2LD	●				●	●	●	130	Φ22	Aviation connector	11 12 31			1.3kW	HN-Y7N[]150A-S	HN-Y7E[]150A-S	HN-Y7F[]150A-S	Three-phase AC220V	
		SV-X6MG130A-B2LD		●			●		●	130	Φ22	Aviation connector	11 13 31				HN-Y7N[]150A-S	HN-Y7E[]150A-S	HN-Y7F[]150A-S	Three-phase AC220V	
	1.8kW	SV-X6MG180A-N2LD	●				●	●	●	130	Φ22	Aviation connector	11 12 31		X6-MGS Low-cogging Cutting series	850W	HN-Y7N[]200A-S	HN-Y7E[]200A-S	HN-Y7F[]200A-S	Three-phase AC220V	
		SV-X6MG180A-B2LD		●			●		●	130	Φ22	Aviation connector	11 13 31				HN-Y7N[]200A-S	HN-Y7E[]200A-S	HN-Y7F[]200A-S	Three-phase AC220V	
X6-MGS Low-cogging Cutting series	850W	SV-X6MG085S-N2LD	●				●	●	●	130	Φ19	Aviation connector	11 12 31		X6-MGS Low-cogging Cutting series	850W	HN-Y7N[]100A-S	HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V	
		SV-X6MG085S-B2LD		●			●		●	130	Φ19	Aviation connector	11 12 14 31				HN-Y7N[]100A-S	HN-Y7E[]100A-S	HN-Y7F[]100A-S	Three-phase AC220V	
	1.3kW	SV-X6MG130S-N2LD	●				●	●	●	130	Φ22	Aviation connector	11 12 31			1.3kW	HN-Y7N[]150A-S	HN-Y7E[]150A-S	HN-Y7F[]150A-S	Three-phase AC220V	
		SV-X6MG130S-B2LD		●			●		●	130	Φ22	Aviation connector	11 12 14 31				HN-Y7N[]150A-S	HN-Y7E[]150A-S	HN-Y7F[]150A-S	Three-phase AC220V	
	1.8kW	SV-X6MG180S-N2LD	●				●	●	●	130	Φ24	Aviation connector	11 12 31			1.8kW	HN-Y7N[]200A-S	HN-Y7E[]200A-S	HN-Y7F[]200A-S	Three-phase AC220V	
		SV-X6MG180S-B2LD		●			●		●	130	Φ24	Aviation connector	11 12 14 31				HN-Y7N[]200A-S	HN-Y7E[]200A-S	HN-Y7F[]200A-S	Three-phase AC220V	

▼ Accessories specifications for connector-type servo motors of flange 40 to 80

- | | | |
|---|------------------------|--|
| ① | SVCAB-ENC075CA-***L-05 | Absolute encoder cable |
| ② | SVCAB-ENC075CA-***L-05 | Incremental encoder cable |
| ③ | SVCAB-PWR010CA-***L-05 | UVW power cable(no brake)
50W to 100W |
| ④ | SVCAB-PWB010CA-***L-05 | UVW power cable(with brake)
50W to 100W |
| ⑤ | SVCAB-PWR075CA-***L-05 | UVW power cable(no brake)
200W to 1KW |
| ⑥ | SVCAB-PWB075CA-***L-05 | UVW power cable(with brake)
200W to 1KW |

- ▶ Aviation connector specifications for servo motor of flange 100&130&180

- ⑪ ENC-TE-LW 1KW Encoder accessories (10-pin aviation connector + 1394 connector)
 - ⑫ PWR-CON 1KW 4-core power aviation connector, for flange 100&130
 - ⑬ PWR-CON 1KW-9P 9-pin brake power aviation connector, for flange 100&130
 - ⑭ PWB-CON- 1KW 2-core brake power connector
 - ⑮ PWR-CON 7.5KW 4-core power aviation connector, for flange 180

▼ Accessories specifications for lead-wire type servo motor of flange 40 to 80

- ②1 ENC-TE 750W 2 packs of encoder accessories (6-hole plastic connector + 1394 connector)
 - ②2 PWR-CON 750W 4-hole power plastic connector
 - ②3 PWB-CON 750W 2-hole power brake plastic connector

▼ Other accessories specifications

- ③ SV-BAT Absolute battery box



Series name	Power	Model name	23bit Absolute	20bit Absolute	Incremental	Brake Yes No	Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	Control mode			Power specifications	Notes	
															[] Control mode General-purpose:Y7N[]---	[A] Pulse control / [B] EtherCAT / [K]MECHATROLINK-III / [R] Profinet Standard:Y7E[]---	Full-functional:Y7F[]---			
X6-MA Low Inertia Series	1kW	SV-X6MA100A-N4LA				Yes		●	100	φ19	Aviation connector		X6-MA Low Inertia Series	1kW	HN-Y7N[]100T-S	HN-Y7E[]100T-S	HN-Y7F[]100T-S	Three-phase AC380V		
		SV-X6MA100A-B4LA																		
		SV-X6MA100A-N4LD																		
		SV-X6MA100A-B4LD																		
	1.5kW	SV-X6MA150A-N4LA				Yes		●	100	φ19	Aviation connector			1.5kW	HN-Y7N[]150T-S	HN-Y7E[]150T-S	HN-Y7F[]150T-S	Three-phase AC380V		
		SV-X6MA150A-B4LA																		
		SV-X6MA150A-N4LD																		
		SV-X6MA150A-B4LD																		
	2kW	SV-X6MA200A-N4LA				Yes		●	100	φ19	Aviation connector			2kW	HN-Y7N[]200T-S	HN-Y7E[]200T-S	HN-Y7F[]200T-S	Three-phase AC380V		
		SV-X6MA200A-B4LA																		
		SV-X6MA200A-N4LD																		
		SV-X6MA200A-B4LD																		
	3kW	SV-X6MA300K-N4LA				Yes		●	130	φ24	Aviation connector			3kW	HN-Y7N[]300T-S	HN-Y7E[]300T-S	HN-Y7F[]300T-S	Three-phase AC380V		
		SV-X6MA300K-B4LA																		
		SV-X6MA300K-N4LD																		
		SV-X6MA300K-B4LD																		
	4kW	SV-X6MA400K-N4LA				Yes		●	130	φ24	Aviation connector			4kW	HN-Y7N[]500T-S	HN-Y7E[]500T-S	HN-Y7F[]500T-S	Three-phase AC380V		
		SV-X6MA400K-B4LA																		
		SV-X6MA400K-N4LD																		
		SV-X6MA400K-B4LD																		
	5kW	SV-X6MA500K-N4LA				Yes		●	130	φ24	Aviation connector			5kW	HN-Y7N[]500T-S	HN-Y7E[]500T-S	HN-Y7F[]500T-S	Three-phase AC380V		
		SV-X6MA500K-B4LA																		
		SV-X6MA500K-N4LD																		
		SV-X6MA500K-B4LD																		

Accessories specifications for connector-type servo motors of flange 40 to 80

- ① SVCAB-ENC075CA-ABS-***L-05 Absolute encoder cable
- ② SVCAB-ENC075CA-***L-05 Incremental encoder cable
- ③ SVCAB-PWR010CA-***L-05 UVW power cable(no brake) 50W to 100W
- ④ SVCAB-PWB010CA-***L-05 UVW power cable(with brake) 50W to 100W
- ⑤ SVCAB-PWR075CA-***L-05 UVW power cable(no brake) 200W to 1KW
- ⑥ SVCAB-PWB075CA-***L-05 UVW power cable(with brake) 200W to 1KW

Aviation connector specifications for servo motor of flange 100&130&180

- ⑪ ENC-TE-LW 1kW Encoder accessories (10-pin aviation connector + 1394 connector)
- ⑫ PWR-CON 1kW 4-core power aviation connector, for flange 100&130
- ⑬ PWR-CON 1kW-9P 9-pin brake power aviation connector, for flange 100&130
- ⑭ PWB-CON- 1kW 2-core brake power connector
- ⑮ PWR-CON 7.5kW 4-core power aviation connector, for flange 180

Accessories specifications for lead-wire type servo motor of flange 40 to 80

- ⑯ ENC-TE 750W 2 packs of encoder accessories (6-hole plastic connector + 1394 connector)
- ⑰ PWR-CON 750W 4-hole power plastic connector
- ⑱ PWB-CON 750W 2-hole power brake plastic connector

Other accessories specifications

- ⑲ SV-BAT Absolute battery box



Series name	Power	Model name	23bit Absolute	20bit Absolute	Incremental	Brake Yes No	Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	Control mode			Power specifications	Notes					
															[] Control mode General-purpose:Y7N[]---	[A] Pulse control / [B] EtherCAT / [K]MECHATROLINK-III / [R] Profinet Standard:Y7E[]---	Full-functional:Y7F[]---							
X6-MM Middle Inertia series	1kW	SV-X6MM100A-N4LD	●			● Yes	●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳		X6-MM Middle Inertia series	1kW	HN-Y7N[]100T-S			HN-Y7F[]100T-S	Three-phase AC380V					
		SV-X6MM100A-B4LD					●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]100T-S									
		SV-X6MM100A-N4LA	●			● Yes	●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7N[]100T-S									
		SV-X6MM100A-B4LA					●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]100T-S									
	1.5kW	SV-X6MM100S-N4LD	●			● Yes	●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7N[]150T-S			HN-Y7F[]150T-S	Three-phase AC380V					
		SV-X6MM100S-B4LD					●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]150T-S									
		SV-X6MM100S-N4LA	●			● Yes	●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7N[]200T-S			HN-Y7F[]200T-S	Three-phase AC380V					
		SV-X6MM100S-B4LA					●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]200T-S									
	2kW	SV-X6MM200A-N4LD	●			● Yes	●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7N[]200T-S			HN-Y7F[]200T-S	Three-phase AC380V					
		SV-X6MM200A-B4LD					●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]200T-S									
		SV-X6MM200A-N4LA	●			● Yes	●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7N[]300T-S			HN-Y7F[]300T-S	Three-phase AC380V					
		SV-X6MM200A-B4LA					●	● 130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳ ⑳				HN-Y7E[]300T-S									

Note

▼ Accessories specifications for connector-type servo motors of flange 40 to 80

- ① SVCAB-ENC075CA-ABS-***L-05 Absolute encoder cable
- ② SVCAB-ENC075CA-***L-05 Incremental encoder cable
- ③ SVCAB-PWR010CA-***L-05 UVW power cable(no brake) 50W to 100W
- ④ SVCAB-PWB010CA-***L-05 UVW power cable(with brake) 50W to 100W
- ⑤ SVCAB-PWR075CA-***L-05 UVW power cable(no brake) 200W to 1KW
- ⑥ SVCAB-PWB075CA-***L-05 UVW power cable(with brake) 200W to 1KW

▼ Aviation connector specifications for servo motor of flange 100&130&180

- ⑪ ENC-TE-LW 1kW Encoder accessories (10-pin aviation connector + 1394 connector)
- ⑫ PWR-CON 1kW 4-core power aviation connector, for flange 100&130
- ⑬ PWR-CON 1kW-9P 9-pin brake power aviation connector, for flange 100&130
- ⑭ PWB-CON- 1kW 2-core brake power connector
- ⑮ PWR-CON 7.5kW 4-core power aviation connector, for flange 180

▼ Accessories specifications for lead-wire type servo motor of flange 40 to 80

- ⑯ ENC-TE 750W 2 packs of encoder accessories (6-hole plastic connector + 1394 connector)
- ⑰ PWR-CON 750W 4-hole power plastic connector
- ⑱ PWB-CON 750W 2-hole power brake plastic connector

▼ Other accessories specifications

- ⑲ SV-BAT Absolute battery box



Series name	Power	Model name	23bit Absolute	20bit Absolute	Incremental	Brake Yes No	Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	Control mode			Power specifications	Notes	
															[] Control mode	[A] Pulse control / [B] EtherCAT / [K] MECHATROLINK-III / [R] Profinet	[] General-purpose:Y7N[]---			
X6-MM Middle Inertia series	3kW	SV-X6MM300A-N4LD	●						180	φ35	Aviation connector	⑪ ⑯ ⑰ ⑳	X6-MM Middle Inertia series	3kW	HN-Y7N[]300T-S	HN-Y7E[]300T-S	HN-Y7F[]300T-S	Three-phase AC380V		
		SV-X6MM300A-B4LD	●				●			φ35		⑪ ⑯ ⑰ ⑳								
		SV-X6MM300A-N4LA	●				●			φ35		⑪ ⑯ ⑰ ⑳								
		SV-X6MM300A-B4LA	●				●			φ35		⑪ ⑯ ⑰ ⑳								
	4kW	SV-X6MM400A-N4LD	●				●			180	Aviation connector	⑪ ⑯ ⑰ ⑳				4kW	HN-Y7N[]500T-S	HN-Y7E[]500T-S	HN-Y7F[]500T-S	Three-phase AC380V
		SV-X6MM400A-B4LD	●				●			180		⑪ ⑯ ⑰ ⑳								
		SV-X6MM400A-N4LA	●				●			180		⑪ ⑯ ⑰ ⑳								
		SV-X6MM400A-B4LA	●				●			180		⑪ ⑯ ⑰ ⑳								
	5kW	SV-X6MM500A-N4LD	●				●			180	Aviation connector	⑪ ⑯ ⑰ ⑳				5kW	HN-Y7N[]500T-S	HN-Y7E[]500T-S	HN-Y7F[]500T-S	Three-phase AC380V
		SV-X6MM500A-B4LD	●				●			180		⑪ ⑯ ⑰ ⑳								
		SV-X6MM500A-N4LA	●				●			180		⑪ ⑯ ⑰ ⑳								
		SV-X6MM500A-B4LA	●				●			180		⑪ ⑯ ⑰ ⑳								
	7.5kW	SV-X6MM750A(H)-N4LD	●				●			180	Aviation connector	⑪ ⑯ ⑰ ⑳				7.5kW	HN-Y7N[]750T-S	HN-Y7E[]750T-S	HN-Y7F[]750T-S	Three-phase AC380V
		SV-X6MM750A(H)-B4LD	●				●			180		⑪ ⑯ ⑰ ⑳								
		SV-X6MM750A(H)-N4LA	●				●			180		⑪ ⑯ ⑰ ⑳								
		SV-X6MM750A(H)-B4LA	●				●			180		⑪ ⑯ ⑰ ⑳								
	11kW	SV-X6MM11KA-N4LD	●				●			220	Aviation connector	⑪ ⑯ ⑰ ⑳				11kW	HN-Y7N[]111T-S	HN-Y7E[]111T-S	HN-Y7F[]111T-S	Three-phase AC380V
		SV-X6MM11KA-B4LD	●				●			220		⑪ ⑯ ⑰ ⑳								
		SV-X6MM11KA-N4LA	●				●			220		⑪ ⑯ ⑰ ⑳								
		SV-X6MM11KA-B4LA	●				●			220		⑪ ⑯ ⑰ ⑳								
	15kW	SV-X6MM15KA-N4LD-F	●				●			220	Aviation connector	⑪ ⑯ ⑰ ⑳				15kW	HN-Y7N[]151T-S	HN-Y7E[]151T-S	HN-Y7F[]151T-S	Three-phase AC380V
		SV-X6MM15KA-B4LD-F	●				●			220		⑪ ⑯ ⑰ ⑳								
		SV-X6MM15KA-N4LA-F	●				●			220		⑪ ⑯ ⑰ ⑳								
		SV-X6MM15KA-B4LA-F	●				●			220		⑪ ⑯ ⑰ ⑳								
	22kW	SV-X6MM22KA-N4LD-F	●				●			220	Aviation connector	⑪ ⑯ ⑰ ⑳				22kW	HN-Y7N[]221T-S	HN-Y7E[]221T-S	HN-Y7F[]221T-S	Three-phase AC380V
		SV-X6MM22KA-B4LD-F	●				●			220		⑪ ⑯ ⑰ ⑳								
		SV-X6MM22KA-N4LA-F	●				●			220		⑪ ⑯ ⑰ ⑳								
		SV-X6MM22KA-B4LA-F	●				●			220		⑪ ⑯ ⑰ ⑳								
X6-MH High Inertia series	2kW	SV-X6MH200A-N4LD	●				●			180	Aviation connector	⑪ ⑯ ⑰ ⑳				2kW	HN-Y7N[]200T-S	HN-Y7E[]200T-S	HN-Y7F[]200T-S	Three-phase AC380V
		SV-X6MH200A-B4LD	●				●			180		⑪ ⑯ ⑰ ⑳								
		SV-X6MH200A-N4LA	●				●			180		⑪ ⑯ ⑰ ⑳								
		SV-X6MH200A-B4LA	●				●			180		⑪ ⑯ ⑰ ⑳								
	4kW	SV-X6MH400A-N4LD	●				●			180	Aviation connector	⑪ ⑯ ⑰ ⑳				4kW	HN-Y7N[]500T-S	HN-Y7E[]500T-S	HN-Y7F[]500T-S	Three-phase AC380V
	SV-X6MH400A-B4LD	●				●			180	⑪ ⑯ ⑰ ⑳										
	SV-X6MH400A-N4LA	●				●			180	⑪ ⑯ ⑰ ⑳										

Series name	Power	Model name	23bit		20bit		Brake		Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	Control mode		Pulse control / [B] EtherCAT / [K] MECHATROLINK-III / [R] Profinet		Power specifications	Notes				
			Absolute	Absolute	Absolute	Incremental	Yes	No									General-purpose:Y7N[]---	Standard:Y7E[]---	Full-functional:Y7F[]---							
X6-MG Low-speed & High-torque	850W	SV-X6MG085A-N4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯		X6-MG Low-speed & High-torque	850W	HN-Y7N[]100T-S		HN-Y7E[]100T-S		HN-Y7F[]100T-S		Three-phase AC380V			
		SV-X6MG085A-B4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]100T-S		HN-Y7E[]100T-S		HN-Y7F[]100T-S					
		SV-X6MG085A-N4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]100T-S		HN-Y7E[]100T-S		HN-Y7F[]100T-S					
		SV-X6MG085A-B4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]100T-S		HN-Y7E[]100T-S		HN-Y7F[]100T-S					
	1.5kW	SV-X6MG150C-N4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯			1.5kW	HN-Y7N[]150T-S		HN-Y7E[]150T-S		HN-Y7F[]150T-S		Three-phase AC380V			
		SV-X6MG150C-B4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]150T-S		HN-Y7E[]150T-S		HN-Y7F[]150T-S					
		SV-X6MG150C-N4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]150T-S		HN-Y7E[]150T-S		HN-Y7F[]150T-S					
		SV-X6MG150C-B4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]150T-S		HN-Y7E[]150T-S		HN-Y7F[]150T-S					
	2.4kW	SV-X6MG240A-N4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯			2.4kW	HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S		Three-phase AC380V			
		SV-X6MG240A-B4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S					
		SV-X6MG240A-N4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S					
		SV-X6MG240A-B4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S					
	2.9kW	SV-X6MG290A-N4LD	●				●	●	●	180	φ35	Aviation connector	⑪ ⑫ ⑬ ⑯			2.9kW	HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S		Three-phase AC380V			
		SV-X6MG290A-B4LD	●				●	●	●	180	φ35	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S					
		SV-X6MG290A-N4LA	●				●	●	●	180	φ35	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S					
		SV-X6MG290A-B4LA	●				●	●	●	180	φ35	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S					
	4.4kW	SV-X6MG440A-N4LD	●				●	●	●	180	φ35	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]500T-S		HN-Y7E[]500T-S		HN-Y7F[]500T-S		Three-phase AC380V			
		SV-X6MG440A-B4LD	●				●	●	●	180	φ35	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]500T-S		HN-Y7E[]500T-S		HN-Y7F[]500T-S					
		SV-X6MG440A-N4LA	●				●	●	●	180	φ35	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]500T-S		HN-Y7E[]500T-S		HN-Y7F[]500T-S					
		SV-X6MG440A-B4LA	●				●	●	●	180	φ35	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]500T-S		HN-Y7E[]500T-S		HN-Y7F[]500T-S					
	5.5 kW	SV-X6MG550A-N4LD	●				●	●	●	180	φ42	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]600T-S		HN-Y7E[]600T-S		HN-Y7F[]600T-S		Three-phase AC380V			
		SV-X6MG550A-B4LD	●				●	●	●	180	φ42	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]600T-S		HN-Y7E[]600T-S		HN-Y7F[]600T-S					
		SV-X6MG550A-N4LA	●				●	●	●	180	φ42	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]600T-S		HN-Y7E[]600T-S		HN-Y7F[]600T-S					
		SV-X6MG550A-B4LA	●				●	●	●	180	φ42	Aviation connector	⑪ ⑫ ⑬ ⑯				HN-Y7N[]600T-S		HN-Y7E[]600T-S		HN-Y7F[]600T-S					

Accessories specifications for connector-type servo motors of flange 40 to 80

- ① SVCAB-ENC075CA-ABS-***L-05 Absolute encoder cable
- ② SVCAB-ENC075CA-***L-05 Incremental encoder cable
- ③ SVCAB-PWR010CA-***L-05 UVW power cable(no brake) 50W to 100W
- ④ SVCAB-PWB010CA-***L-05 UVW power cable(with brake) 50W to 100W
- ⑤ SVCAB-PWR075CA-***L-05 UVW power cable(no brake) 200W to 1KW
- ⑥ SVCAB-P

Series name	Power	Model name	23bit		20bit		Brake		Oil seal	Flange	Shaft diameter	Regular models	Applicable accessories		Series name	Power	Control mode		Pulse control / [B] EtherCAT / [K] MECHATROLINK-III / [R] Profinet		Power specifications	Notes					
			Absolute	Absolute	Absolute	Incremental	Yes	No									General-purpose:Y7N[]---	Standard:Y7E[]---	Full-functional:Y7F[]---								
X6-MGS Low-cogging Cutting series	850W	SV-X6MG085S-N4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲		X6-MGS Low-cogging Cutting series	850W	HN-Y7N[]100T-S		HN-Y7E[]100T-S		HN-Y7F[]100T-S		Three-phase AC380V				
		SV-X6MG085S-B4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]100T-S		HN-Y7E[]100T-S		HN-Y7F[]100T-S						
		SV-X6MG085S-N4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]100T-S		HN-Y7E[]100T-S		HN-Y7F[]100T-S						
		SV-X6MG085S-B4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]100T-S		HN-Y7E[]100T-S		HN-Y7F[]100T-S						
	1.3kW	SV-X6MG130S-N4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]200T-S		HN-Y7E[]200T-S		HN-Y7F[]200T-S		Three-phase AC380V				
		SV-X6MG130S-B4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]200T-S		HN-Y7E[]200T-S		HN-Y7F[]200T-S						
		SV-X6MG130S-N4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]200T-S		HN-Y7E[]200T-S		HN-Y7F[]200T-S						
		SV-X6MG130S-B4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]200T-S		HN-Y7E[]200T-S		HN-Y7F[]200T-S						
	1.8kW	SV-X6MG180S-N4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S		Three-phase AC380V				
		SV-X6MG180S-B4LD	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S						
		SV-X6MG180S-N4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S						
		SV-X6MG180S-B4LA	●				●	●	●	130	φ22	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]300T-S		HN-Y7E[]300T-S		HN-Y7F[]300T-S						
	2.9kW	SV-X6MG290S-N4LD	●				●	●	●	●	●	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]500T-S		HN-Y7E[]500T-S		HN-Y7F[]500T-S		Three-phase AC380V				
		SV-X6MG290S-B4LD	●				●	●	●	●	●	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]500T-S		HN-Y7E[]500T-S		HN-Y7F[]500T-S						
		SV-X6MG290S-N4LA	●				●	●	●	●	●	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]500T-S		HN-Y7E[]500T-S		HN-Y7F[]500T-S						
		SV-X6MG290S-B4LA	●				●	●	●	●	●	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]600T-S		HN-Y7E[]600T-S		HN-Y7F[]600T-S						
	4.4kW	SV-X6MG440S-N4LD	●				●	●	●	●	●	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]600T-S		HN-Y7E[]600T-S		HN-Y7F[]600T-S						
		SV-X6MG440S-B4LD	●				●	●	●	●	●	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]600T-S		HN-Y7E[]600T-S		HN-Y7F[]600T-S						
		SV-X6MG440S-N4LA	●				●	●	●	●	●	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]600T-S		HN-Y7E[]600T-S		HN-Y7F[]600T-S						
		SV-X6MG440S-B4LA	●				●	●	●	●	●	Aviation connector	⑪ ⑫ ⑬ ⑯ ⑰ ⑱ ⑲				HN-Y7N[]600T-S		HN-Y7E[]600T-S		HN-Y7F[]600T-S						

Accessories specifications for connector-type servo motors of flange 40 to 80

- ① SVCAB-ENC075CA-ABS-***L-05 Absolute encoder cable
- ② SVCAB-ENC075CA-***L-05 Incremental encoder cable
- ③ SVCAB-PWR010CA-***L-05 UVW power cable(no brake) 50W to 100W
- ④ SVCAB-PWB010CA-***L-05 UVW power cable(with brake) 50W to 100W
- ⑤ SVCAB-PWR075CA-***L-05 UVW power cable(no brake) 200W to 1KW
- ⑥ SVCAB-PWB075CA-***L-05 UVW power cable(with brake) 200W to 1KW

Aviation connector specifications for servo motor of flange 100&130&180

- ⑪ ENC-TE-LW 1KW Encoder accessories (10-pin aviation connector + 1394 connector)
- ⑫ PWR-CON 1KW 4-core power aviation connector, for flange 100&130
- ⑬ PWR-CON 1KW-9P 9-pin brake power aviation connector, for flange 100&130
- ⑭ PWB-CON- 1KW 2-core brake power connector
- ⑮ PWR-CON 7.5KW 4-core power aviation connector, for flange 180

Accessories specifications for lead-wire type servo motor of flange 40 to 80

- ⑯ ENC-TE 750W 2 packs of encoder accessories (6-hole plastic connector + 1394 connector)
- ⑰ PWR-CON 750W 4-hole power plastic connector
- ⑱ PWB-CON 750W 2-hole power brake plastic connector

Other accessories specifications

- ⑲ SV-BAT Absolute battery box



SVCAB-ENC 075 CA - ABS-010L-05

1 2 3 4 5 6 7

1 Product type	
ENC	Encoder cable
PWR	4-core power cable
PWB	6-core power cable with brake

2 Motor power	
010	50W~150W
075	200W~1KW

3 Connector-type	
C	Flange 40 to 80

4 Outlet direction	
A	Forward-The leading direction at the front end
B	Reverse-The leading direction at the back end



5 Encoder type	
ABS	Absolute
N/A	Incremental

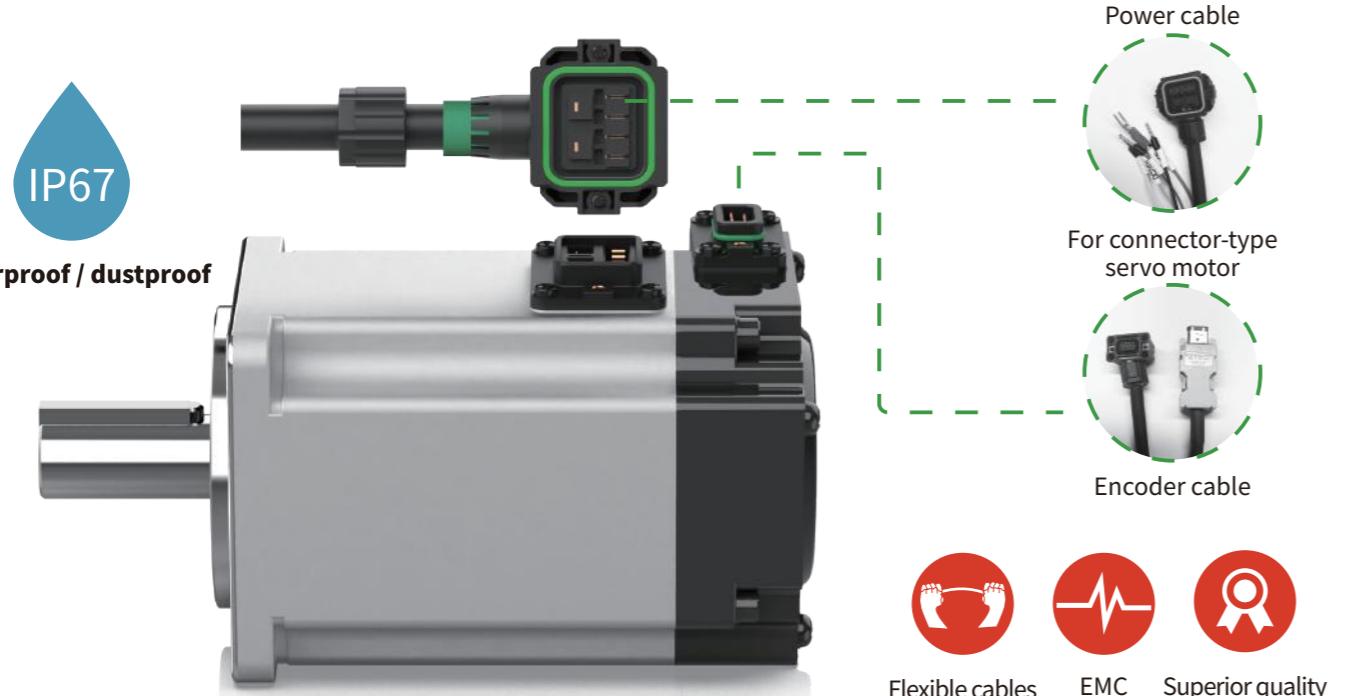
6 Length specifications (unit 0.1m)	
L	Length identification

7 Cable flexibility	
01	Fixed
05(regular)	500 million times
10	10 million times
20	2 million times
A0	For swinging

Note *1: The regular length specifications in our stock is 0.5M/1M/2M/3M/5M/8M/10M. For other length specifications (minimum unit 0.5 meters), please consult our sales department in advance.

// Accessories Specifications for Connector-type Servo Motor

Cables	Model name	Diagram
Absolute encoder cable	SVCAB-ENC075CA-ABS-***L-05	
Incremental encoder cable	SVCAB-ENC075CA-***L-05	
50W~150W UVW power cable	SVCAB-PWR010CA-***L-05	
50W~150W UVW power cable with brake	SVCAB-PWB010CA-***L-05	
200W~1000W UVW power cable	SVCAB-PWR075CA-***L-05	
200W~1000W UVW power cable with brake	SVCAB-PWB075CA-***L-05	

**Waterproof / dustproof****// Advantages**

- The motor cables connected directly to the servo drive, reducing the connection and greatly improving the reliability.
- The protection level of the motor connector upgraded to IP67, vibration-resistance, dustproof and waterproof.
- Encoder cables are treated with metal shielding layer, which has strong anti-interference ability!
- Various specifications of cables can be customized based on the different application occasions. HCFA designated high-quality raw material suppliers for centralized procurement. (See Naming Rule 7 for cables)

From the 2nd quarter of 2021, our company started releasing connector-type servo motors as the regular model. The lead-wire servo motors will be discontinued from December 2021, if you still need the lead-wire servo motor, the customized application process is required.

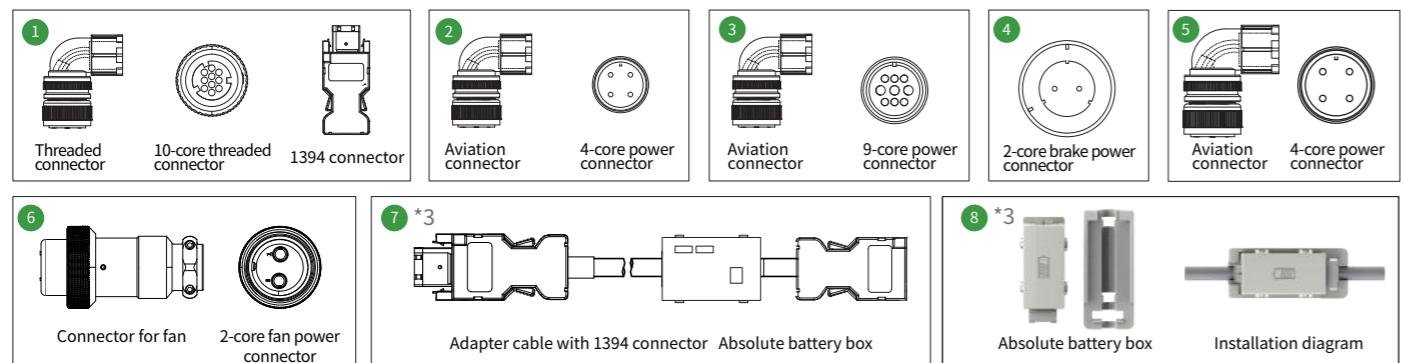
// Aviation connectors for servo motor of flange 100&130, 180&220

Accessories	Model name	Diagram
Encoder thread accessories (10-pin thread connector ^{*1} + 1394 connector)	ENC-TE-LW 1KW	1
4-core power aviation connector, for flange 100&130	PWR-CON 1KW	2
9-pin brake power aviation connector, for flange 100&130	PWR-CON 1KW-9P	3
2-core brake power connector ^{*2}	PWB-CON- 1KW	4
4-core power aviation connector, for flange 180	PWR-CON 7.5KW	5
Absolute battery box with 1394 connector	SVBOX-ENCABS	6
2-core fan power connector	PWR-CON-F	7

Note: *1: When used in vibration occasions, please use the encoder thread accessories.

*2: Only the models of flange of 130 &180&220 are required.

*3: When matching with an absolute servo motor, choose one from accessories 7 and 9 according to your needs.



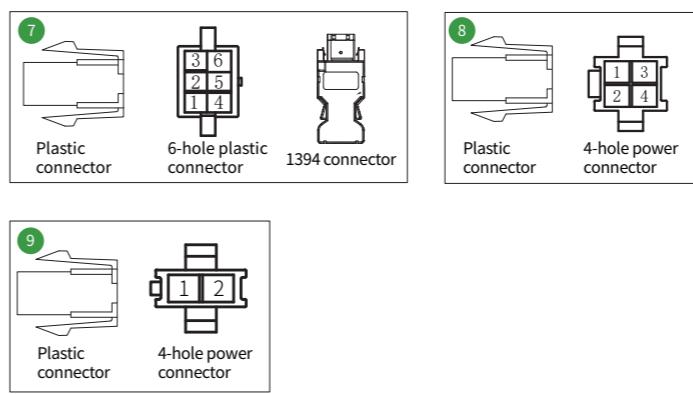
// Other Accessories Specifications

Accessories	Model name	Applicable servo drive/Spec.	Description
Absolute battery box ^⑧	SV-BAT	For all the absolute servo motors	Can be installed on the front of models of Y7 series 6kw and 7.5kw housing or SVCAB-ENC075CA-ABS-***L-05 encoder cable
EtherCAT bus cable	SV-ECAT-0.35M	HN-Y7 □B □□□□ A	For EtherCAT bus models For CN6A, CN6B Length: 0.35m
External brake resistance	SV-BRAKE-1KW	1kw 50Ω 350mm Aluminum shell	Selected when the power of the built-in resistor is insufficient, and connected to the main circuit B1 and B2 ports
External brake resistance	SV-BRAKE-75A	60w 50Ω 350mm Aluminum shell	Selected when the power of the built-in resistor is insufficient, and connected to the main circuit B1 and B2 ports
Anti-interference magnetic ring	Magnetic ring	Installed on the servo drive, signal line, power cable and encoder cable to anti-interference	

Waterproof Connectors/ Compact Accessories	Specifications
ENC-TE 750W-F	6-core waterproof encoder connector + 1394 connector encoder accessory pack
PWR-CON 750W-F	4-core waterproof power connector, for flange 40 to 80
PWB-CON 750W-F	6-core waterproof power connector with brake, for flange 40 to 80
PWR-CON 1KW-F	6-core waterproof power connector, for flange 130

// Accessories for servo motor of flange 40 to 80

Accessories	Model name	Diagram
2 packs of encoder accessories ((6-hole plastic connector + 1394 connector)	ENC-TE 750W	7
4-hole power connector accessories	PWR-CON 750W	8
6-hole power brake connector accessories	PWB-CON 750W	9



// Cables for Lead-wire Type Servo Motor(customized products)

Encoder cables	Specifications
CAB-ENC75A-3M	Incremental encoder cable, for lead-wire type servo motor of flange 40 to 80, 3 meters
SVCAB-ENC75A-3M	Absolute encoder cable, for lead-wire type servo motor of flange 40 to 80, 3 meters
CAB-ENC100A-LW-3M	Incremental encoder cable, for lead-wire type servo motor of flange 100&130&180, 3 meters
CAB-ENC100A-ABS-LW-3M	Absolute encoder cable with battery box, for lead-wire type servo motor of flange 100&130&180, 3 meters
Power cables	Specifications
CAB-PWR75A-3M	4-core power cable, for lead-wire type servo motor flange 40 to 80, 3 meters
CAB-PWR100A-3M	4-core power cable, for lead-wire type servo motor flange 100&130, 3 meters
CAB-PWR400C-3M	4-core power cable, for lead-wire type servo motor of 2KW to 5KW, flange 180, 3 meters
CAB-PWR750C-5M	4-core power cable, for aviation connector type servo motor of 5.5KW to 7.5KW, flange 180, 5 meters
Power brake cable	Specifications
CAB-PWB75A-3M	6-core power brake cable, for lead-wire type servo motor of flange 40 to 80, 3 meters
CAB-PWB100A-3M	9-core power cable, for aviation-connector type servo motor of flange 130, 3 meters
CAB-PWD100A-3M	2-core power cable, for aviation-connector type servo motor of flange 100&130&180, 3 meters
Waterproof-connector cable	Specifications
SVCAB-ENC75A-3M-F	6-core waterproof absolute encoder cable, for servo motor of flange 40 to 130, 3 meters
CAB-PWR75A-3M-F	4-core waterproof power cable, for lead-wire type servo motor flange 40 to 80, 3 meters
CAB-PWB75A-3M-F	6-core waterproof power brake cable, for lead-wire type servo motor flange 40 to 80, 3 meters
CAB-PWB100A-3M-F	6-core waterproof power brake cable, for aviation-connector type servo motor of flange 130, 3 meters

SV Series Gear Motor

HCFA gear motor adopts the integrated design of motor and reducer, with the features of high integration, high reliability, high precision and high efficiency, which can meet the needs of customers for mechatronics integration and suitable for transmission applications in various industries.

More powerful
More efficient

High integration, significantly improve the motor performance

- The whole machine shortened by 25%, the installation space greatly saved
- The shaft of the motor connection shortened and the rigidity improved
- The load inertia reduced, lower the vibration and noise



High reliability, long service-life, and maintenance-free

- Elimination of couplings, reduces the risk of slippage and improves mechanical reliability
- Sealed protection, long-term lubrication and maintenance-free
- Protection level IP65



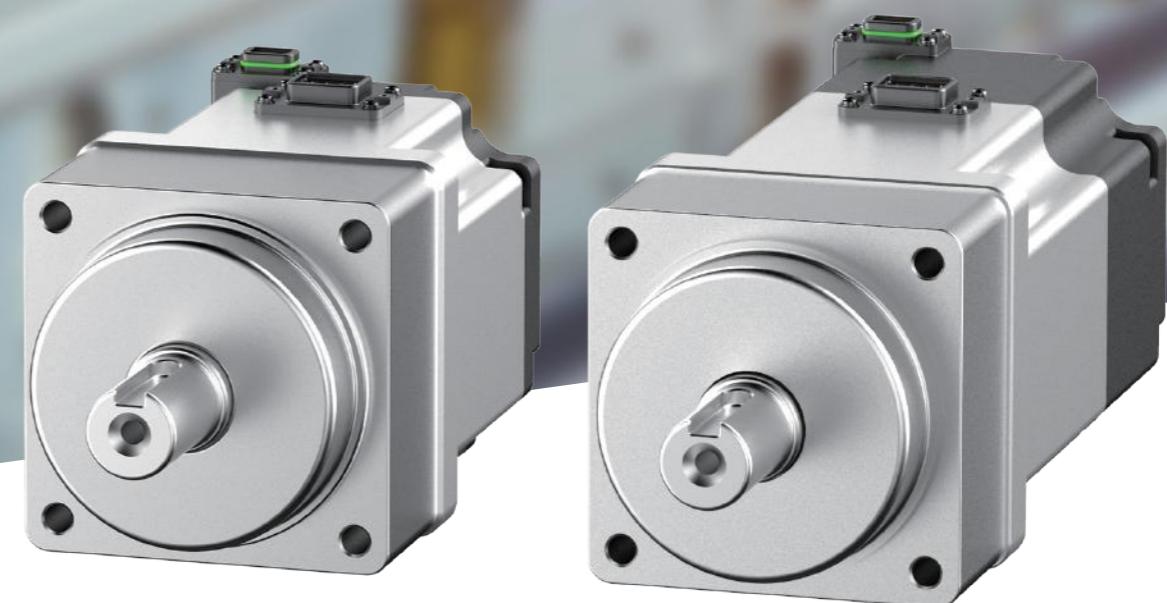
High accuracy for precise control

- High-precision helical gear reduction design, end runout reduced and precision improved
- The highest backlash accuracy≤3arcmin
- High-precision 20bit magnetic encoder/23bit optical encoder

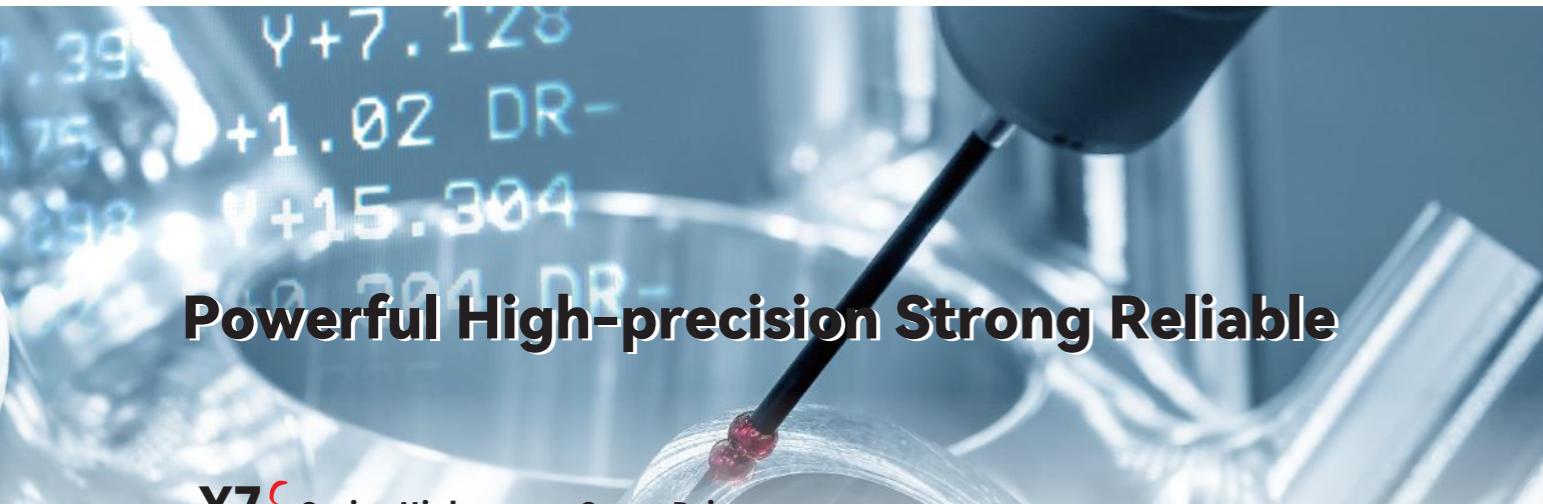


High efficiency, convenient model selection and efficient transmission

- Standardized products, convenient model selection
- Installation time saved and TCO costs reduced
- Max3.5 times overload motor, transmission efficiency 95%, more efficient



SV-X6MM Series of High Power



Powerful High-precision Strong Reliable

Y7S Series High-power Servo Drive

- Rich buses, controlled by the "Chip"
- Can match with high-precision 20bit magnetic encoder/23bit optical encoder
- Independent air duct, no fear of harsh environment
- Provide a variety of installation methods, can be wall-mounted or installed through the wall
- Built-in temperature detection unit, can connect external temperature detection element

● AC380V

70Nm	96Nm	140Nm
11KW	15KW	22KW

SV-X6MM Series Servo Motor of Middle Inertia and Flange 220*1

- Power expanded to 22KW, to provide servo motor of 70Nm~140Nm
- Standard flange 220 design, the main specifications are consistent with other famous brands
- Maximum 2.5 times of overload design, more powerful
- Rated 1500rpm, maximum 2000rpm
- For models above 15KW, air forced cooling, with low temperature rise and long service life
- Protection level IP65, more stable and reliable

Note 1: For detailed specifications, please refer to page 65 , 66, 83 and 84.

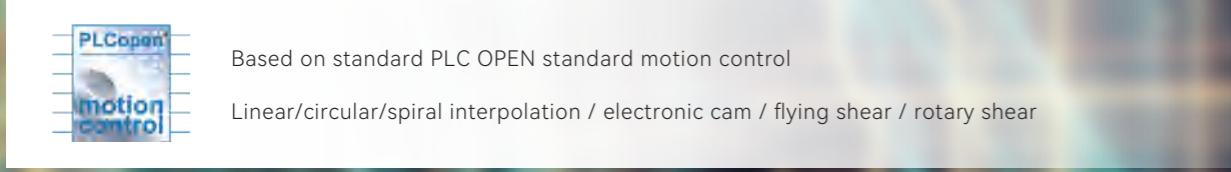
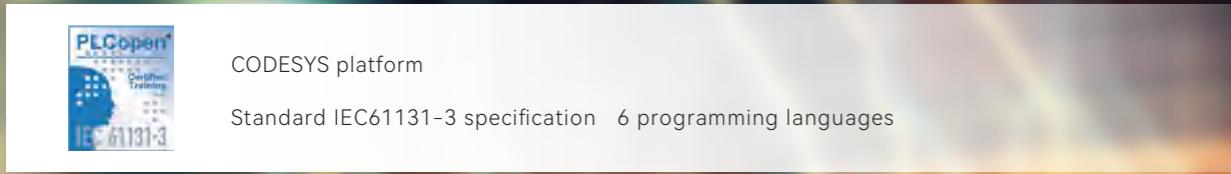


New Generation of Feiling Sensor



HCFA Q-Series Standard PACs

Focus on 9 major industries of industrial automation and create overall solutions!



HCFA TP3000 Series Touch Screen

New upgrade for TP2000 series, Performance greatly improved for TP3000 series

More beautiful product appearance, more stable performance, more functions to meet customers' requirements in different applications.



Performance

ARM platform, Higher performance, 50% improved compared to last generation products



Interfaces

Ethernet, communication port, USB and SD card supported



Size

Full range of sizes, exquisite appearance and easy to install



Easy-to-use

New configuration software-HiStudio, make the operation much easier



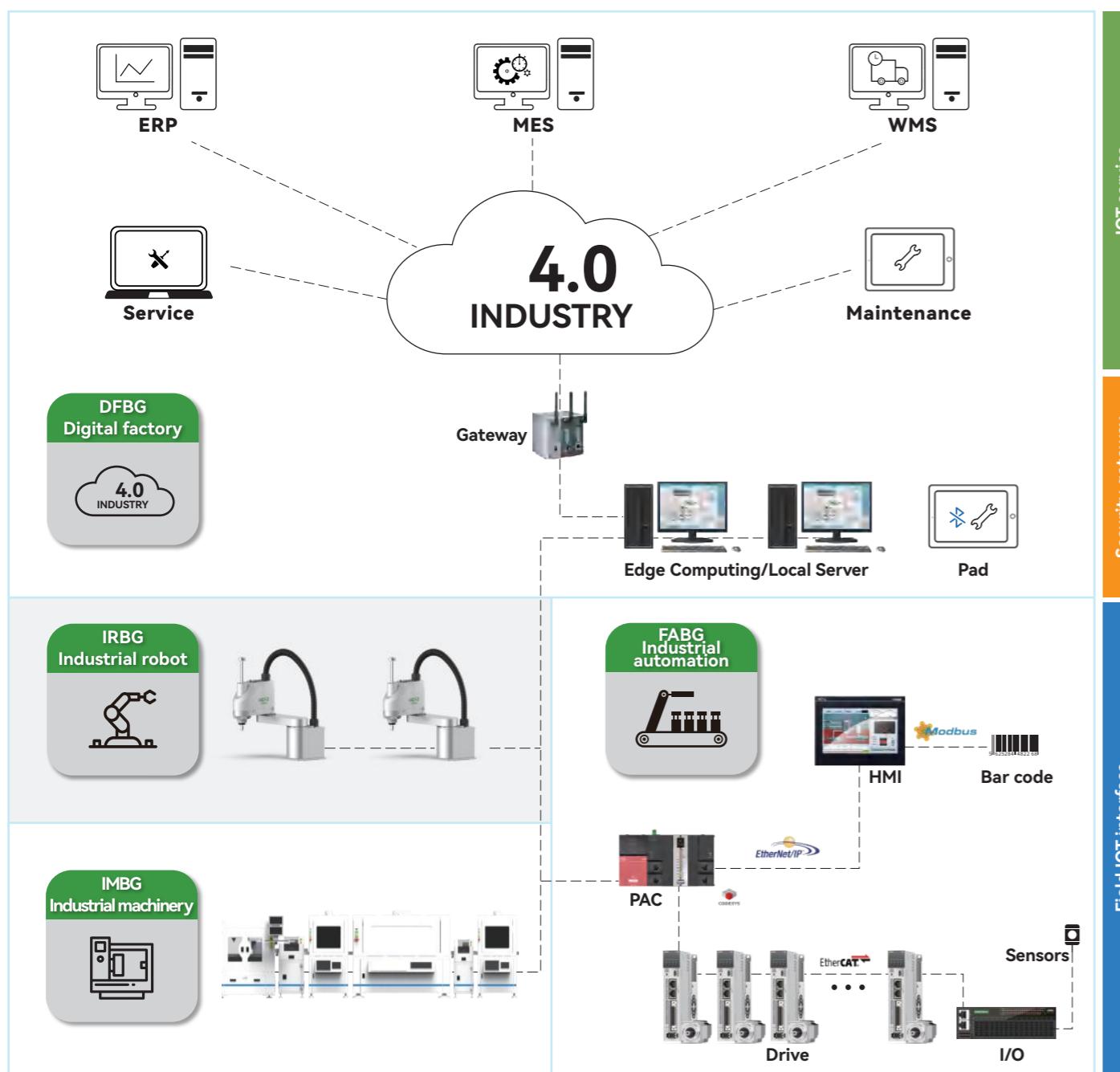


Focusing on industry and intelligent manufacturing



To be the most valuable industrial automation
core components and solution provider

We not only provide the core components of industrial automation, but also engage in the industrial process, industrial robots, industrial machines, and digital factories, and can provide enterprises with comprehensive solutions of **automation + intelligent equipment + digitalization**



Founded in 2011, Zhejiang Hechuan Technology Co., Ltd. is an enterprise focusing on the R&D, manufacturing, sales and application integration of industrial automation products, and is committed to providing core components and system integration solutions for smart factories. The main products include PLCs, servo systems, vision systems, encoders, inverters, touch screens, electric drums, etc., covering the entire field of industrial automation



- Established five R&D centers in Longyou, Hangzhou, Shenzhen, Dalian and Suzhou
- Self-designed ASIC and SOC chips, realize localization replacement
- First-class AMR magnetic technology/high-precision encoder in the industry