

XINJE

DS5C1

WUXI XINJE ELECTRIC CO., LTD.

Data No. SC5 07 20220420 1.0

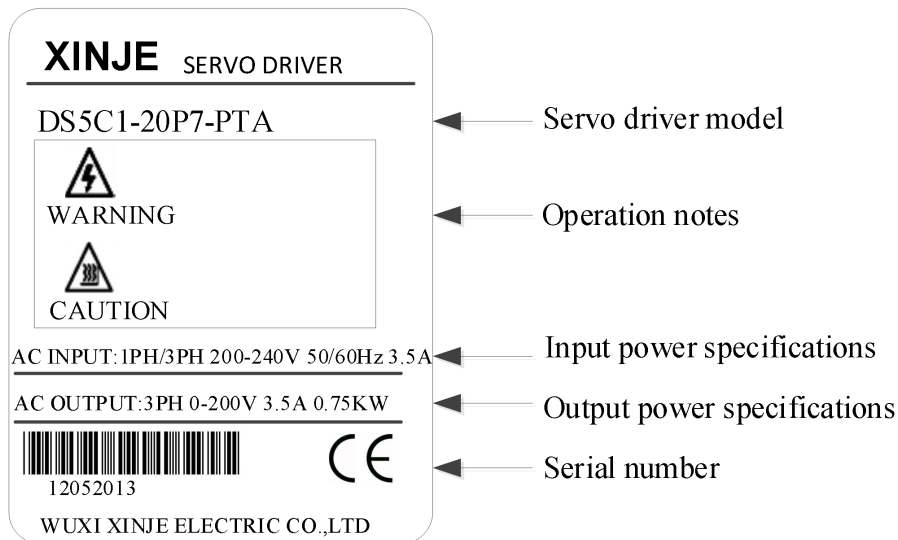
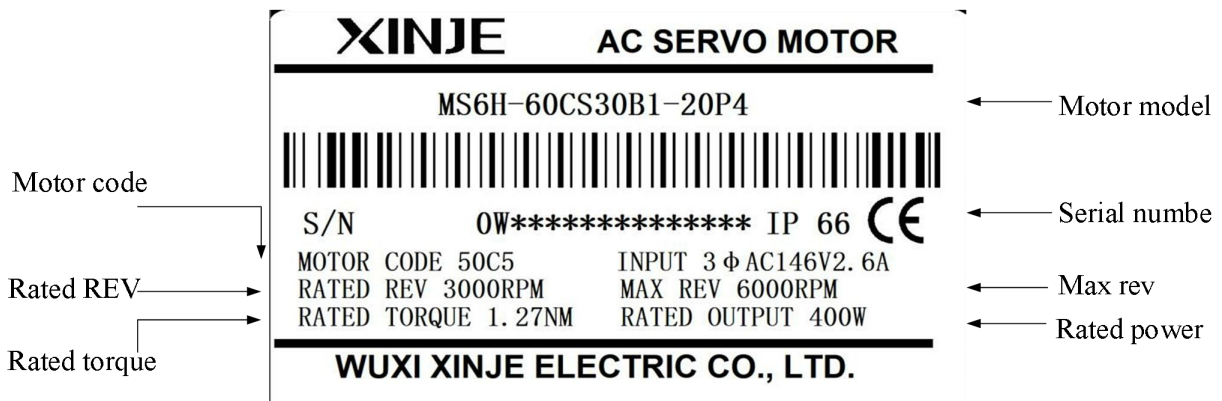
►► Confirmation on product arrival

After the product arrives, please confirm the integrity of the product in the following aspects.

Items	Notes
Does the product on arrival match the specified model?	Please confirm according to the nameplate of servo motor and servo unit.
Does the servomotor shaft rotate smoothly?	The servo motor shaft is normal if it can be turned smoothly by hand. Servo motors with brakes, however, cannot be turned manually.
Is there any damage?	Check the overall appearance, and check for damage or scratches that may have occurred during shipping.
Are there any loose screws?	Check screws for looseness using a screwdriver.
Is the motor code the same with the code in drive?	Check the motor code marked on the nameplates of the servomotor and the parameter U3-70 on the servo drive.

If any of the above is faulty or incorrect, contact Xinje or an authorized distributor.

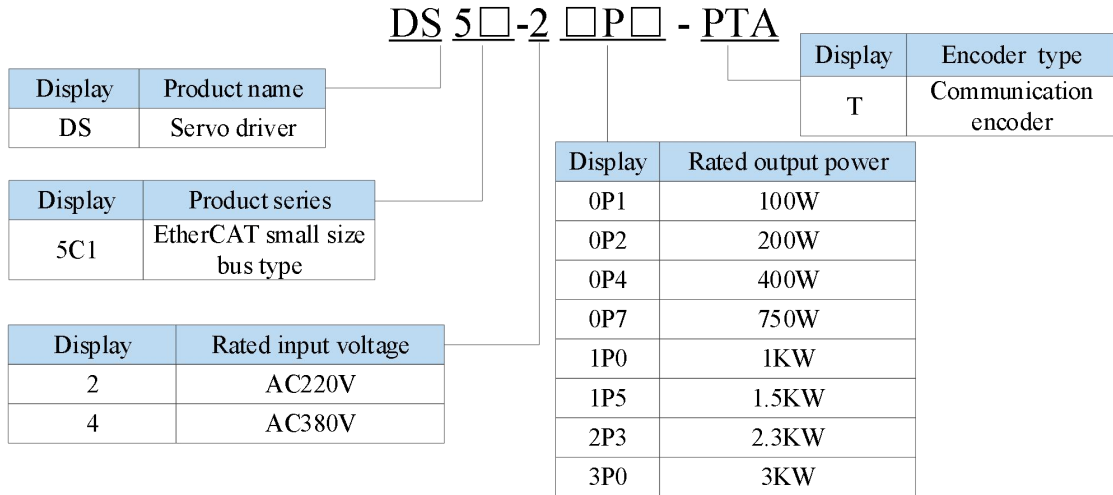
A servo driver can be equipped with a variety of motors with similar power levels. Different types of motors are distinguished by the motor code on the motor nameplate.



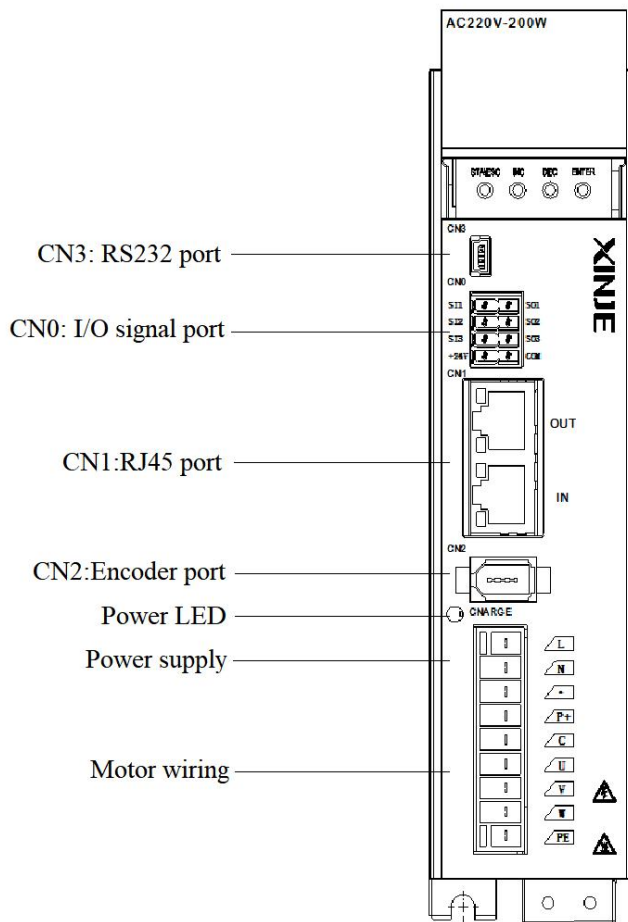
1 Selection of servo system

1.1 Selection of servo driver

1.1.1 Model name



1.1.2 Description of each part



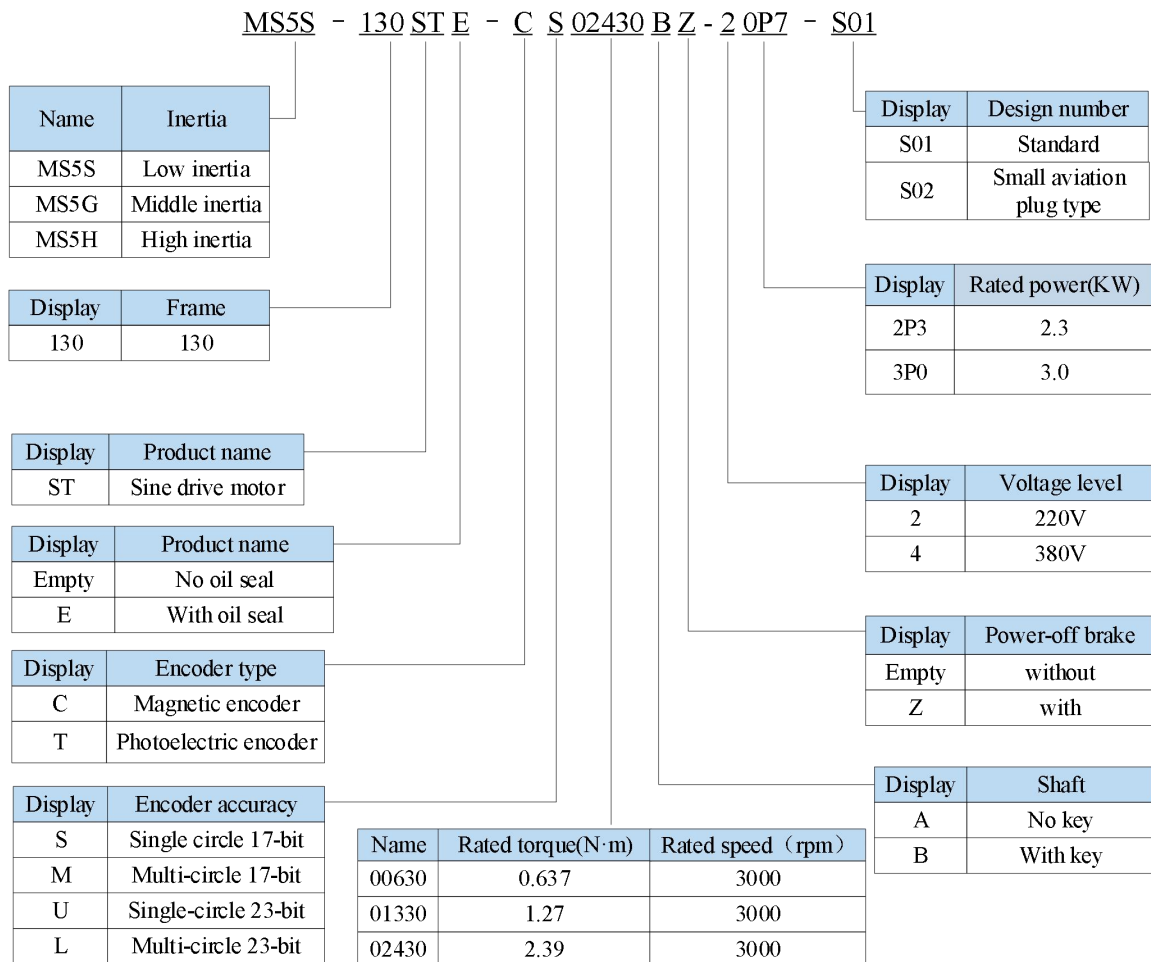
1.1.3 Performance specification

Servo unit		DS5C1 series servo driver
Applicable encoder		Standard: 17bit/23bit communication encoder
Input power supply		DS5C1-2□P□-PTA: single phase AC200~240V, 50/60Hz
		DS5C1-4□P□-PTA: Three phase AC380~440V, 50/60Hz
Control mode		Three-phase full-wave rectifier IPM PWM control sinusoidal current drive mode
Using condition	Using temperature	0~+50 °C
	Storage temperature	-20~+85 °C
	Environment humidity	Below 90%RH(no condensation)
	Vibration resistance	4.9m/s ²
Structure		Pedestal installation

1.2 Servo motor selection

1.2.1 Model name

■ MS5 series motor



Note: At present, only the combination of CS, CM, TL and T is selected for the type of encoder.

■ MS6 series motor

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

Display	Inertia
MS6S	Low inertia
MS6H	High inertia

Display	Frame
40	40 seat
60	60 seat
80	80 seat
100	100 seat
130	130 seat
180	180 seat

Display	Encoder type
C	Magnetic encoder
T	Photoelectric encoder

Display	Encoder accuracy
S	Single circle 17-bit
M	Multi-circle 17-bit
U	Single-circle 23-bit
L	Multi-circle 23-bit

Display	Rated speed(rpm)
15	1500
20	2000
25	2500
30	3000

Display	Rated power(KW)	Display	Rated power(KW)
0P1	100W	1P8	1.8KW
0P2	200W	2P3	2.3KW
0P4	400W	3P0	3.0KW
0P7	750W	4P4	4.4KW
0P8	850W	5P5	5.5KW
1P5	1.5KW	7P5	7.5KW

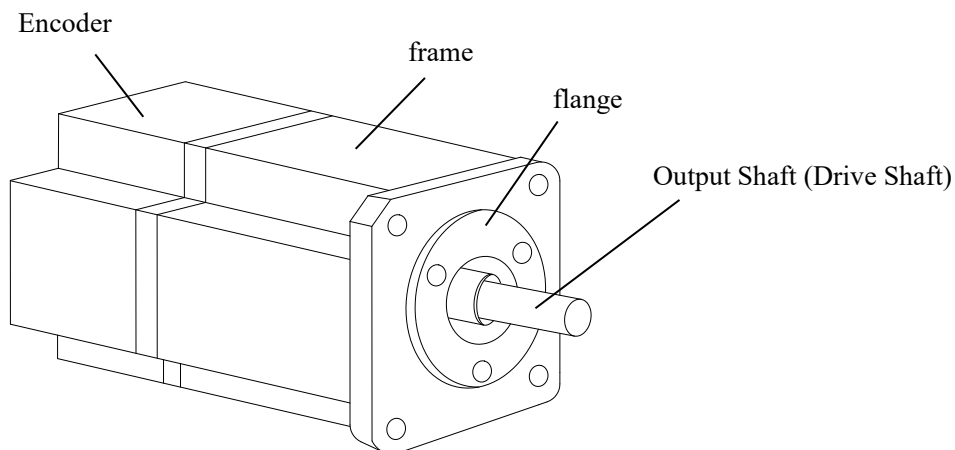
Display	Voltage level
2	220V
4	380V

Display	Connector type
1	AMP plug
2	Aviation plug
3	Connector

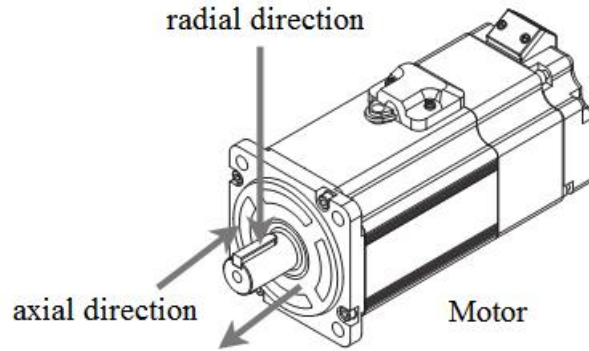
Display	Power-off brake
Vacant	Without brake
Z	With brake

Display	Shaft specification
A	With key, no oil seal ,with threaded hole
B	With key,with oil seal ,with threaded hole
C	No key, no oil seal, with threaded hole
D	No key, with oil seal, with threaded hole
E	Special shaft specification(length,shaft diameter,etc.)

1.2.2 Description of each part



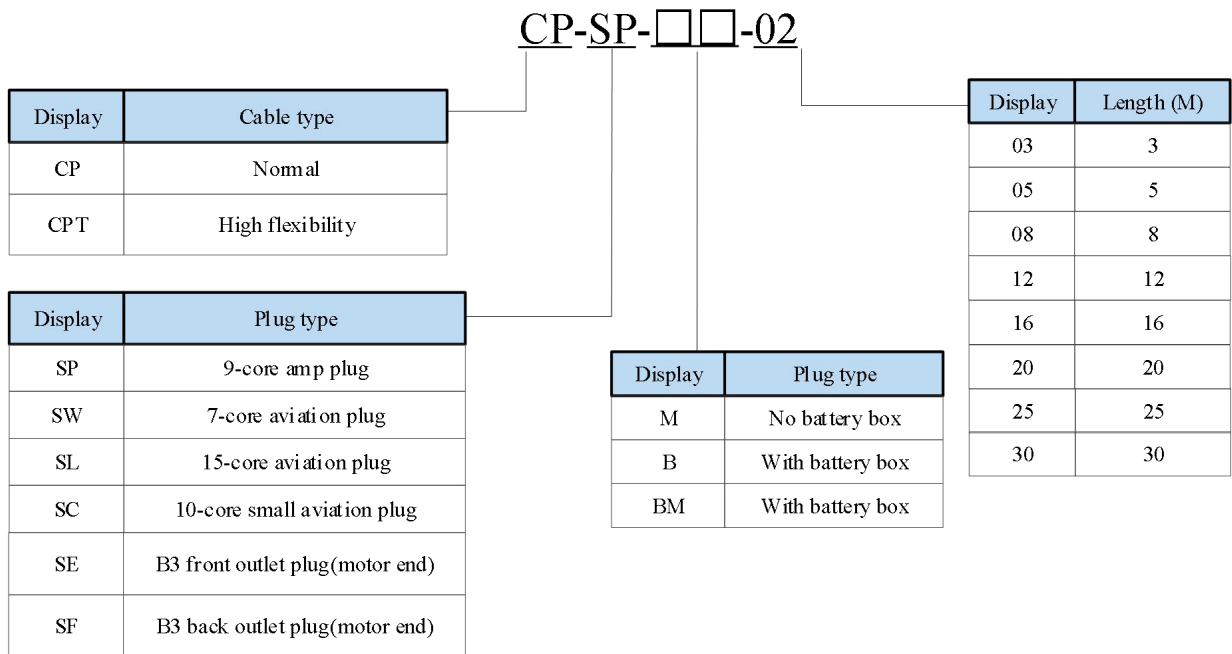
1.2.3 Axial force and radial force



Base no.	40ST	60ST	80ST	100ST	110ST	130ST	180ST	220ST/265ST
Axial force	54N	74N	147N	≤200N	250N	300N	400N	≤500N
Radial force	78N	245N	392N	500N	500N	600N	800N	1000N

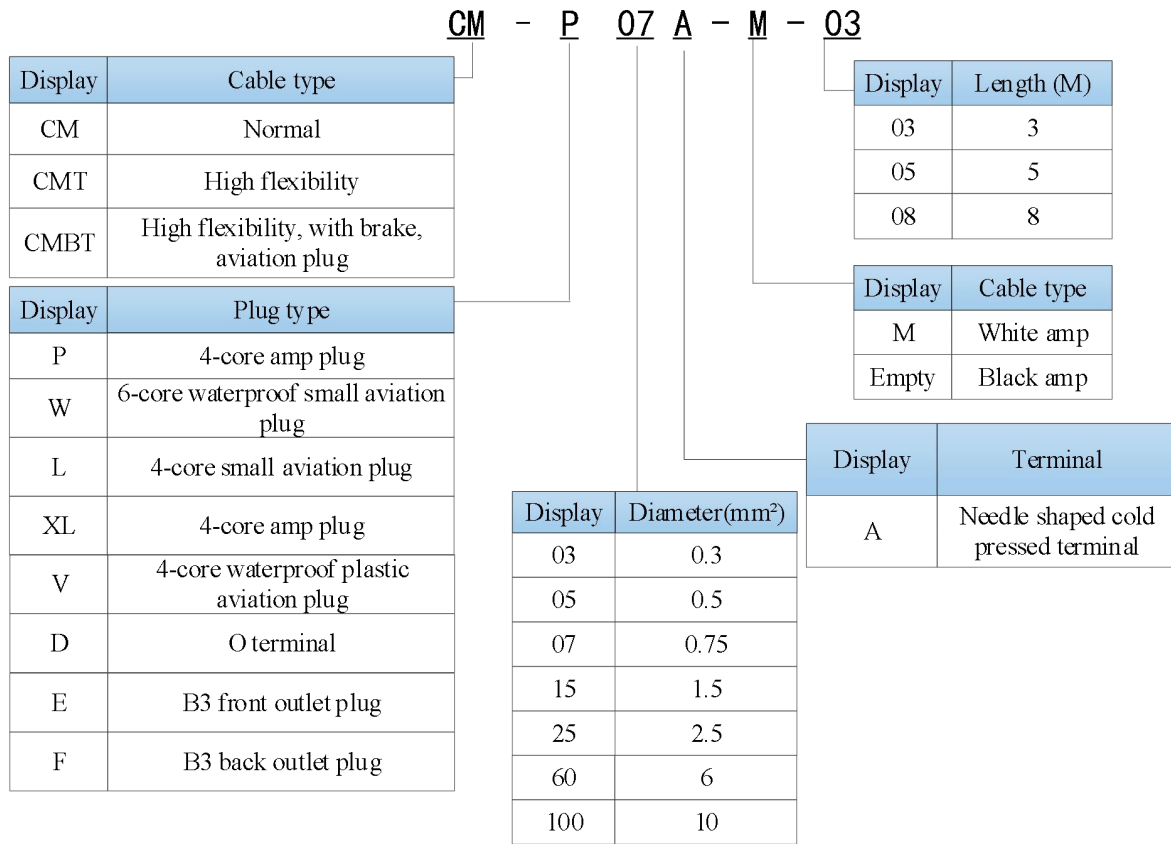
1.3 Cable selection

1.3.1 Encoder cable



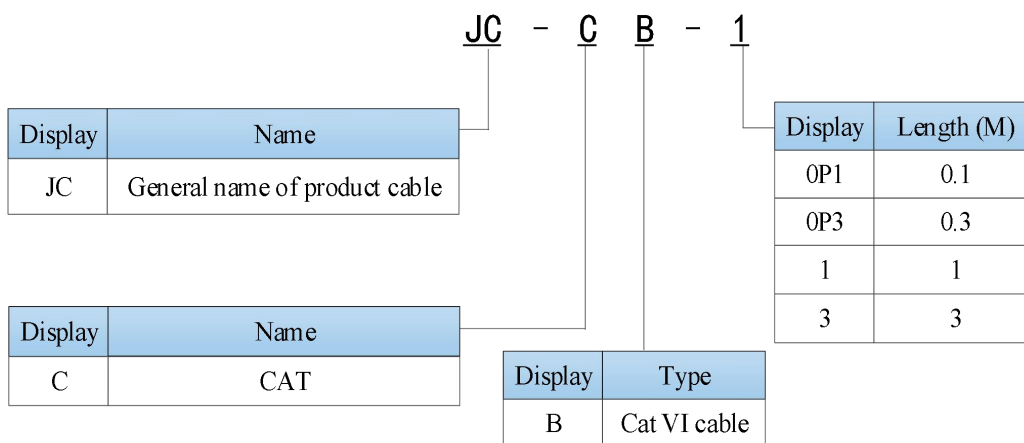
Note: The standard wiring length of Xinje is 2m, 3m, 5m, 8m, 10m, 12m, 16m, 20m, 25m, 30m.

1.3.2 Power cable



Note: The standard wiring length of Xinje is 2m, 3m, 5m, 8m, 10m, 12m, 16m, 20m, 25m, 30m.

1.3.3 EtherCAT communication cable



Note: At present, the length of communication cables is 0.2 m, 0.3 m, 0.5 m, 1 m, 3 m, 5 m, 10 m, 20 m.