



广州市韦德电气机械有限公司

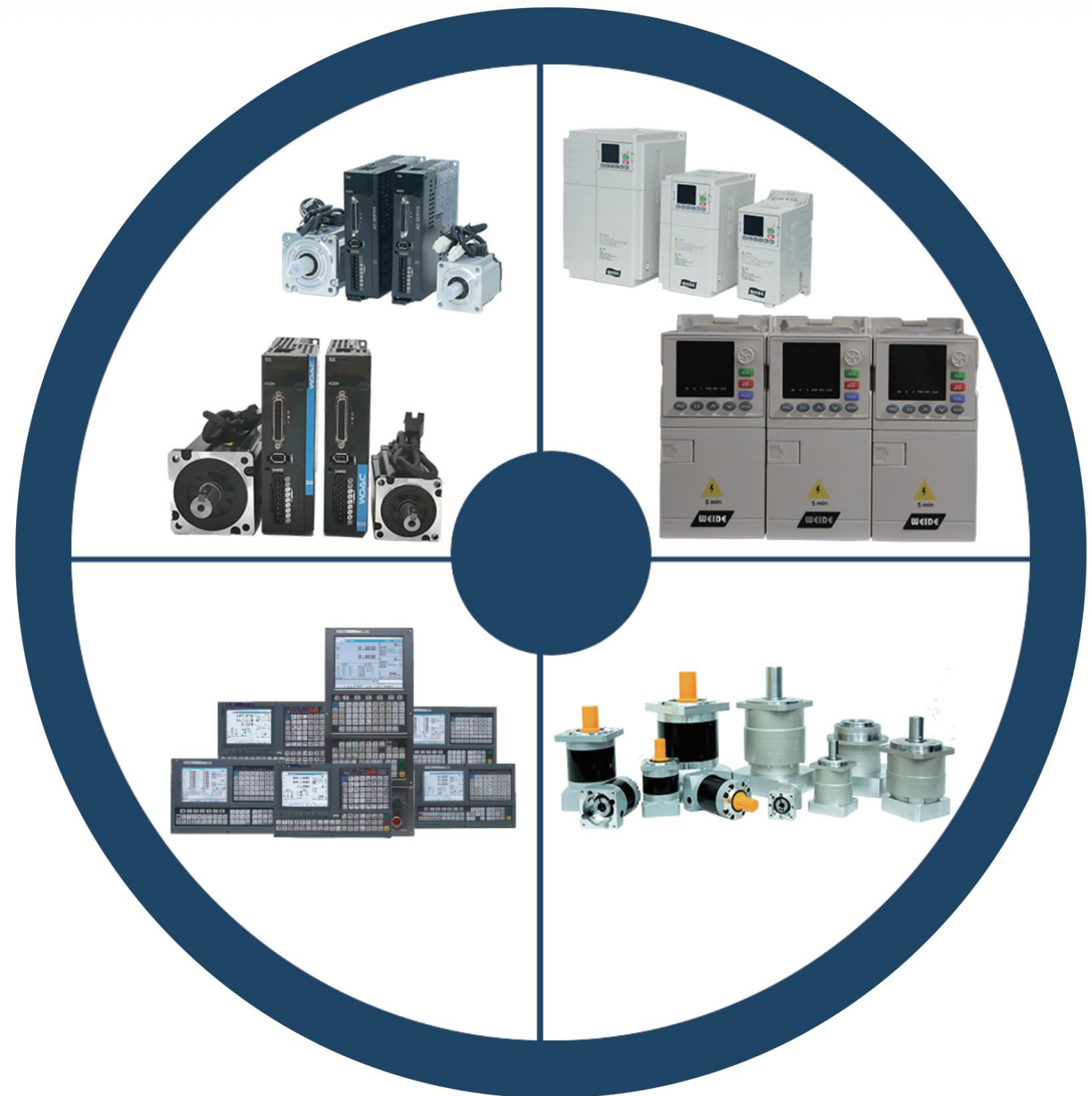
GUANGZHOU WEIDE ELECTRIC MACHINERY CO.,LTD

Website: www.weideelectric.com

WEIDE
韦德伺服

AC SERVO MOTOR
AC SERVO DRIVER
FREQUENCY INVERTER
CNC CONTROLLER
PLANETARY GEARBOX

*15Years Professional
Automation Parts
Manufacturer*



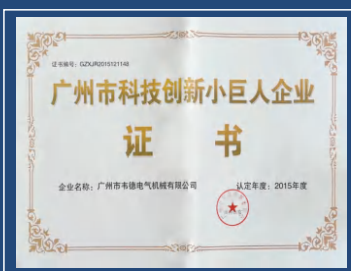
TO KNOW WEIDE ELECTRIC

Weide Electric, founded in 2008, is a company engaged in the research, manufacturing and sales of control, display, drive and system solutions & other related products and services with the help its experienced engineers and skilled workers.

Weide Electric takes our clients requirement as the top priority. By improving and upgrading our product functions and performance continuously, its CNC Controller, Servo Motor and Driver, Frequency Inverter, Planetary Gearbox, HMI and other controller products have been applied successfully in packing, printing, textiles, plastic injection, elevator, machine tool, robot, wood cutting, stone carving, ceramic, glass, paper making industry, crane, fan & pump, new energy resources etc.

Weide Electric are looking forward to cooperate with capable companies as our business partners, product agents and distributors to develop the international market. Up until now, we have already got customers and business partnerships in over 40 countries, which include Europe, North America, South America, Asian-pacific region, Middle East and Australia etc.

Weide Electric, your reliable partner of products and solution provider for industrial automatic devices and systems !



WEIDE ELECTRIC

Vision:

To be a respectable technology-oriented enterprise and devoted to intelligent automation products!

Mission:

To have great achievement and to deliver great virtue to the society!

Value:

*Learning Innovation Dedication
Co-achievement*



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FREQUENCY INVERTER

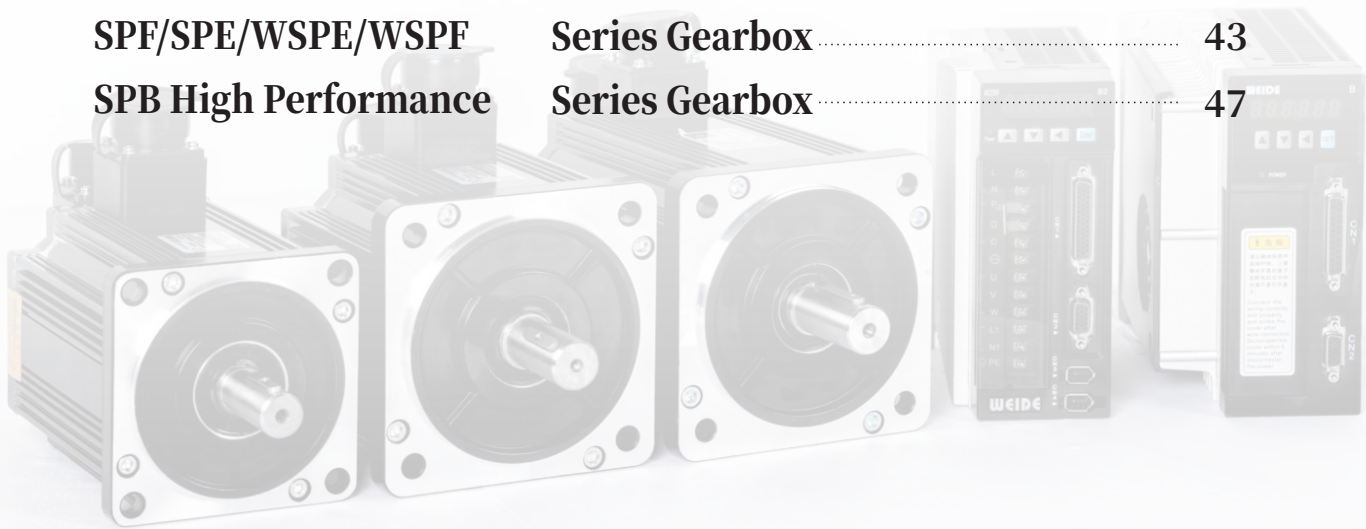
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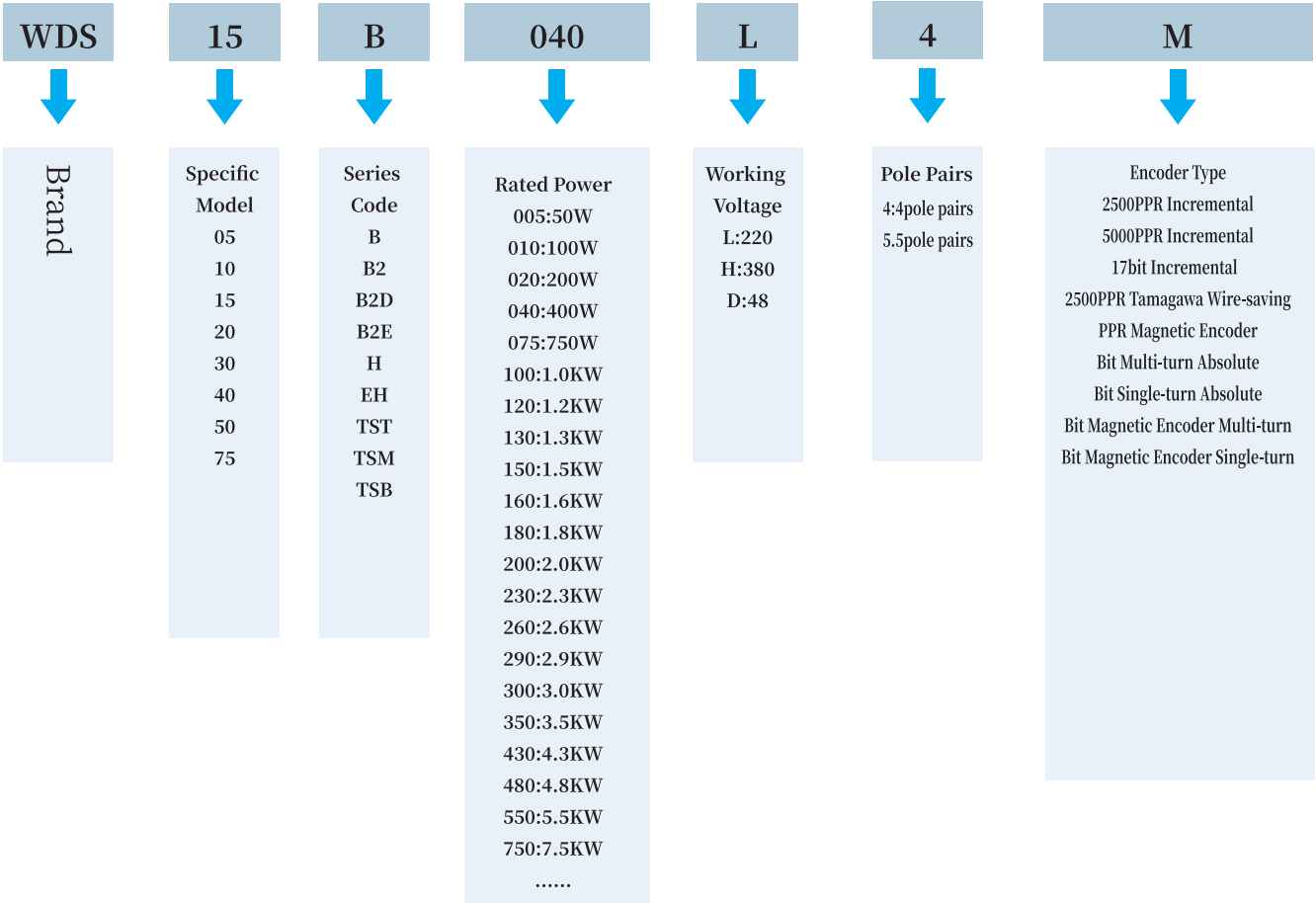
PLANETARY GEARBOX

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Servo Driver Model Number Explanation

B Series Economical Servo Driver



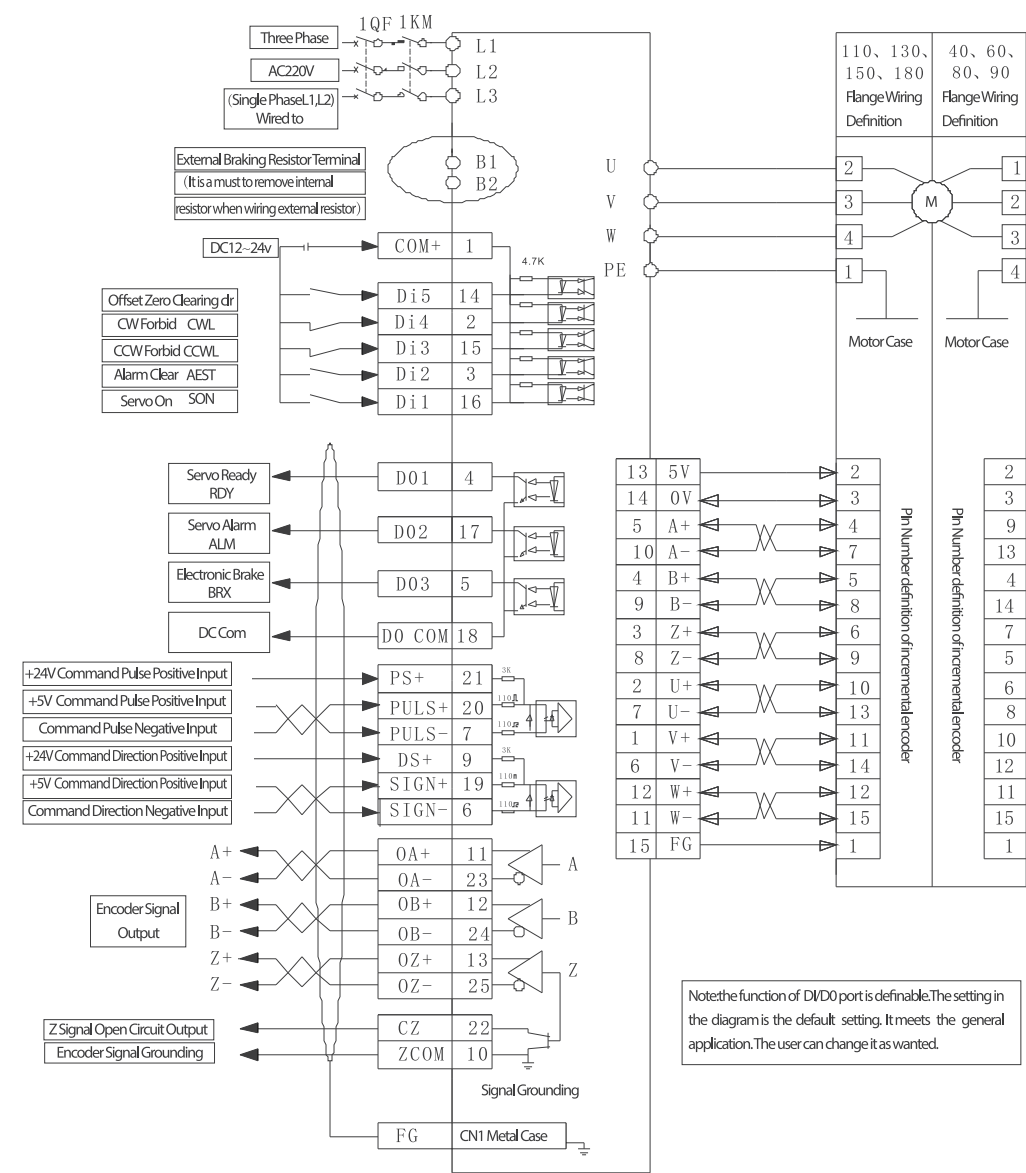
Features

- ◆ Control Mode:Position Mode
- ◆ Applicable encoder:2500ppr incremental encoder,2500ppr wire-saving encoder
- ◆ Adopting the newest IPM(intelligent power module) with small size,high over capacity and reliability
- ◆ Optimized the braking system, it is applicable to frequent start and stop devices
- ◆ Easy to operate,can do trial operation,monitor and parameter setting with only 4keys
- ◆ Adaptive power:0.1-3.8KW

Specific Model

Model No.		10B	15B	20B	30B
Output Power(KW)		0.05-0.4	0.6-1.0	1.0-1.3	1.5-3.8
Rated Torque(N.m)		0.01-1.3	1.9-4	4-10	6-15
Input Power		Single Phase L1,L2;Three Phase L1,L2,L3 AC220V-15%~-+10%			
Temperature		Working:0-40℃ ; Storing: -40-50℃			
Humidity		Working:40%-80%(No Dew); Storing: below 93%(No Dew)			
IP Grade		IP20			
Control Method		PWM sine wave vector control			
Regenerative Braking		With built-in braking resistance for the motor power below 1KW/item; should the inertia is higher, it is advised to have external resistance with terminal end B1&B2			
Feedback Mode		2500PPR incremental encoder			
Control Mode		Position			
Digital Input		Servo Ready; Alarm Clear; CCWL; CWL; TCCW; TCW; EMG STOP; Electronic Gear 1; Electronic Gear 2; Position Deviation Clear; Pulse Input Prohibited			
Digital Output		Servo Ready; Alarm; Location Completed; Speed Arrival; Electromagnetic Brake			
Signal of Encoder Output		Signal Type	Differential A,B,Z Output , Signal Z open-collector Output		
Position	Input Frequency	Differential A,B,Z Input: ≤ 500kHz(kpps) Single Ended Input: ≤ 200kHz(kpps)			
	Command Mode	Pulse+Direction; CCW/CW Pulse; Orthogonal AB Pulse			
	Electric Gear Ratio	1-32767/ 1-32767			
Monitor Function		Speed; Present Location; Location Deviation; Motor Torque; Motor Current; Frequency of Command Pules,etc			
Protection Function		Over-speed; Over Voltage; Over Current; Over Load; Brake Abnormal; Encoder Abnormal; Location out-of-tolerance			
Charact eristics	Speed Frequency Response	≥ 400Hz			
	Speed Fluctuation Ratio	≤ ± 0.03%(Electrical Load:0~100%); ≤ ± 0.02%(Power:15~+10%)			
	Speed Regulation Ratio	1:5000			

B Wiring(Position Control)



Features

- ◆ Control Mode: Position/speed/torque/inner speed controls
- ◆ Applicable encoder: 2500ppr incremental encoder, 2500ppr wire-saving encoder, 17 bit absolute encoder
- ◆ RS485 Modbus Communication
- ◆ Encoder fractional frequency can set at random
- ◆ Output the speed and torque (0-5V analog output)
- ◆ Adopting the newest IPM (intelligent power module) with small size, high over capacity and reliability
- ◆ Optimized the braking system, it is applicable to frequent start and stop devices
- ◆ Easy to operate, can do trial operation, monitor and parameter setting with only 4 keys
- ◆ Adaptive power: 0.1-7.5Kw



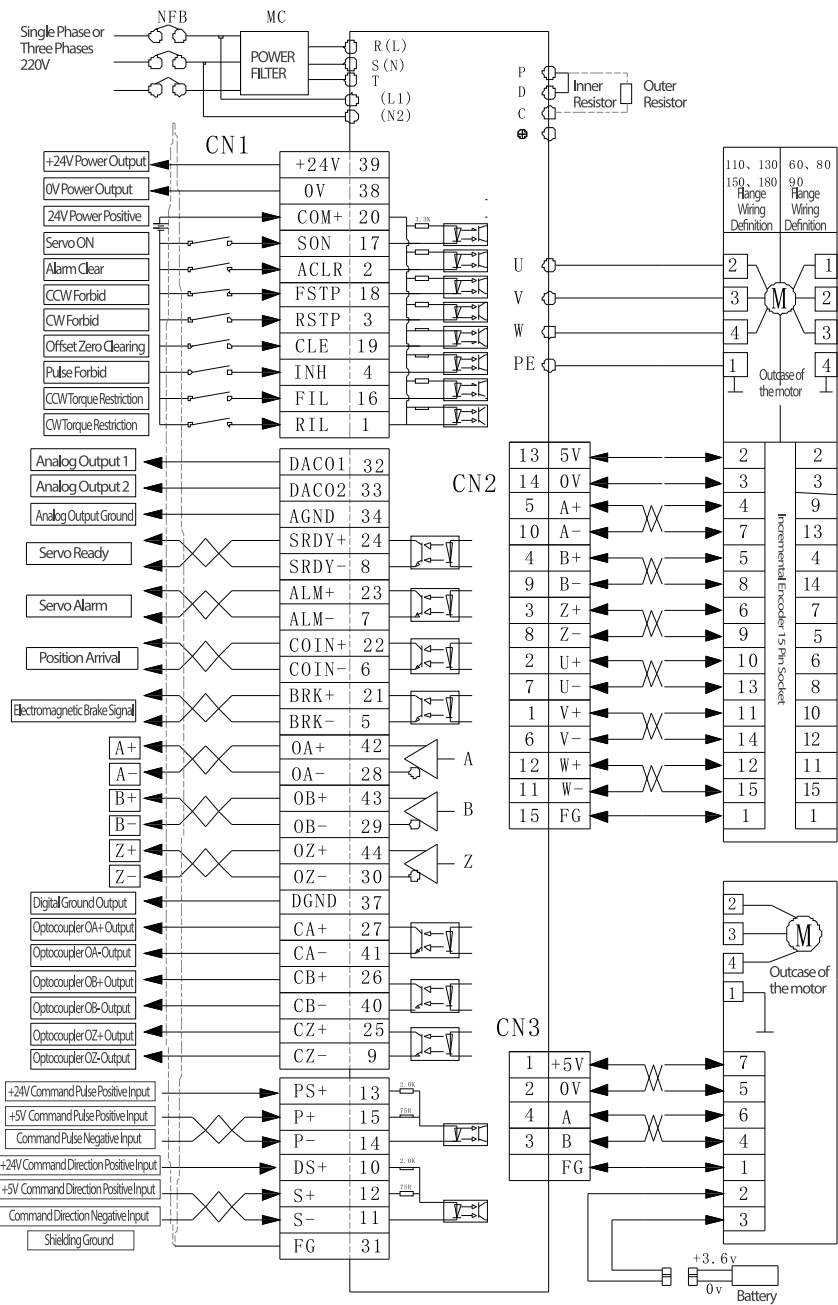
B2 Series Universal Servo Driver



Specific Model

Model\No		10B2	15B2	20B2	30B2	50B2	75B2
Output Power(KW)		0.05-0.4	0.6-1.0	1.0-1.3	1.5-3.8	2.7-3.5	4.3-5.5
Rated Torque(N.m)		0.01-1.3	1.9-4	4-10	6-15	17-35	27-48
Feedback Mode		2500PPR incremental encoder, 2500 PPR wire-saving encoder, 17bits absolute encoder					
Control Mode		Position; Speed; Inner Speed; Torque; JOG; Trail Operation					
Regenerative Braking		Built-in Type; External Installation					
Brake Mode		Power Resistor Braking					
Control Method	Speed Frequency Response	Higher than 250Hz					
	Speed Fluctuation Rate	< ± 3%(Electrical Load 0%~100%); < ± 2%(Power -10%~+10%)					
	Speed Regulation Ratio	1:5000					
	Input Pulse	≤ 500KHz					
	Input Mode	① Pulse+Direction ② CW Pulse+CCW Pulse ③ Orthogonal AB Pulse					
Position Control	Electrical Gear Ratio	1-9999/1-9999					
	Feedback Pulse	Any Frequency Division					
Speed Control	Speed Range	-3000~+3000rpm					
	Speed Signal	DC-10V~+10V Analog Signal (The positive and negative of the Voltage represent the turning direction)					
	Speed Variation Rate	± 1%(Electrical Load Change 0-100%)					
Torque Control	Torque Range	± 3 times of the turning direction					
	Torque Single	DC-10V~+10V Analog Signal (The positive and negative of the Voltage represent the turning direction)					
	Speed Variation Rate	± 1%(Electrical Load Change 0-100%)					
Communication		RS232,RS485					
Grounding Mode		Grounding the housing terminal, Grounding Resistance ≤ 0.1 Ω					
Monitor Function	Keyboard Display	Speed, Present Position, Command Pulse, Position Deviation, Current, Torque, Peak Torque, Command Pulse Frequency, Rotor Absolute Position, Running State, State of Input and Output Terminals, State of the encoder signal, Main cable Voltage, Main-board Temperature, AD Value of Analog Command Sampling, Alarm information,etc					
	Analog Volume Display	Speed, Torque, Current, Peak Torque, Rotor Absolute Position					
Protection Function		Over Speed, Voltage Lack, Over Voltage, Over Current, Over Load, Brake Abnormal, Encoder Error, Over Temperature, Location Out-of-tolerance,etc					
Working Condition	Temperature	Working:0~55℃; Storing:-20~80℃					
	Humidity	Less than 90%(No Dew)					
	Vibration	Less than 0.5G(4.9m/S ²), 10~60Hz(No Continuous Working)					

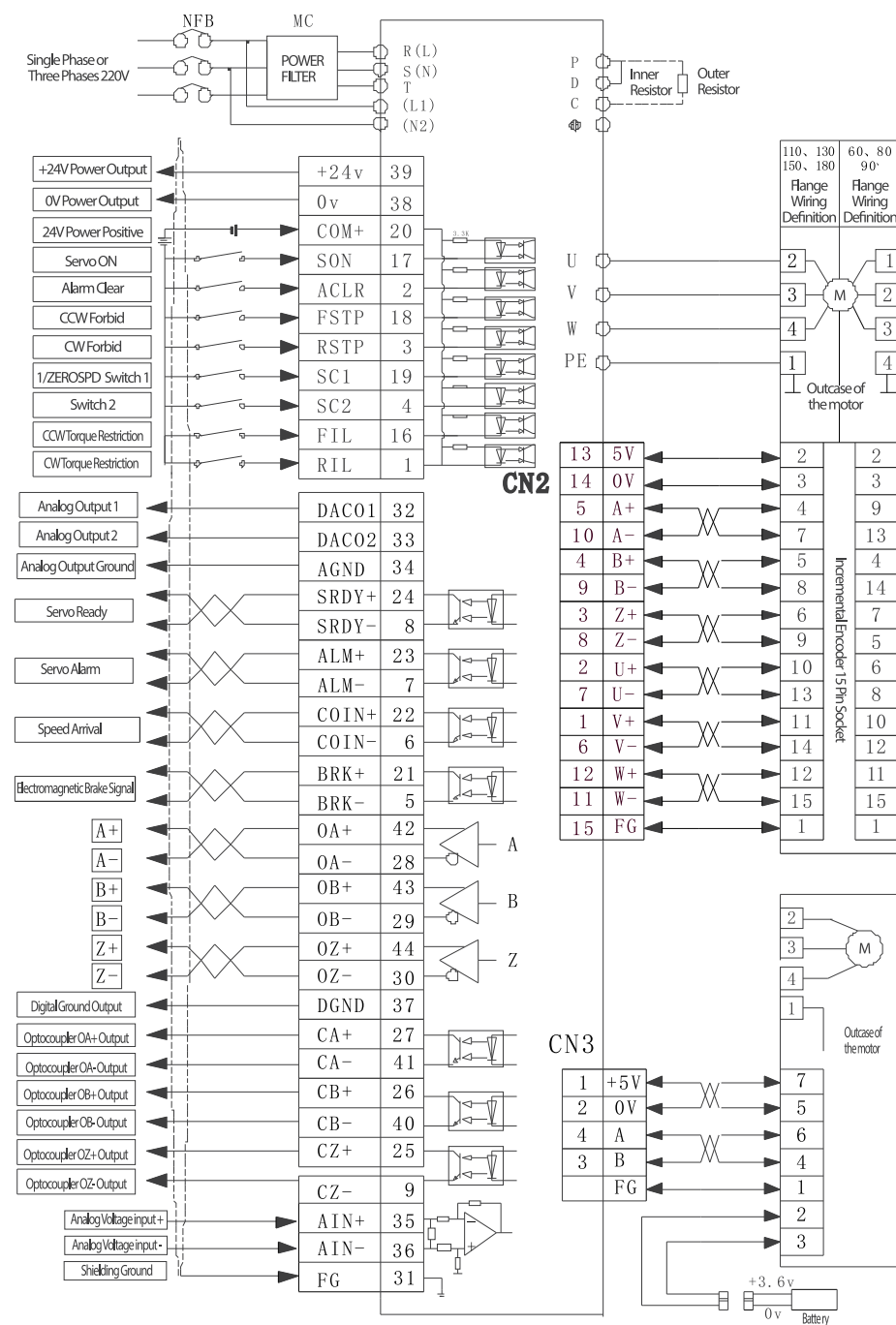
WIRING DIAGRAM OF B2 SERIES SERVO DRIVER(Position Control Mode)



Note:the function of DI/D0 port is definable.The setting in the diagram is the default setting. It meets the general application. The user can change it as wanted.

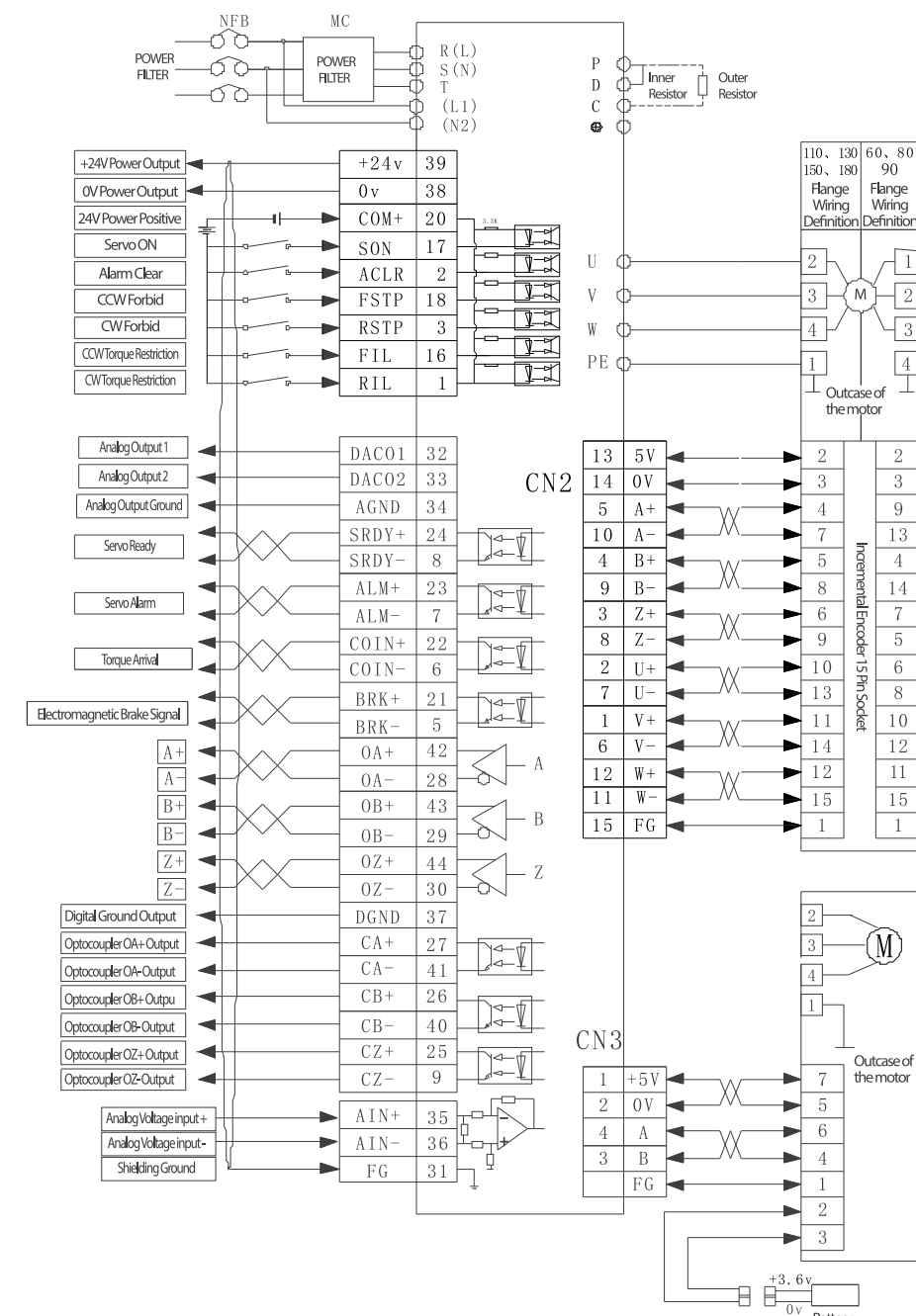
B2 Series Universal Servo Driver

WIRING DIAGRAM OF B2 SERIES SERVO DRIVER (Speed Control Mode)



Note: the function of DI/D0 port is definable. The setting in the diagram is the default setting. It meets the general application. The user can change it as wanted.

WIRING DIAGRAM OF B2 SERIES SERVO DRIVER (Torque Control Mode)



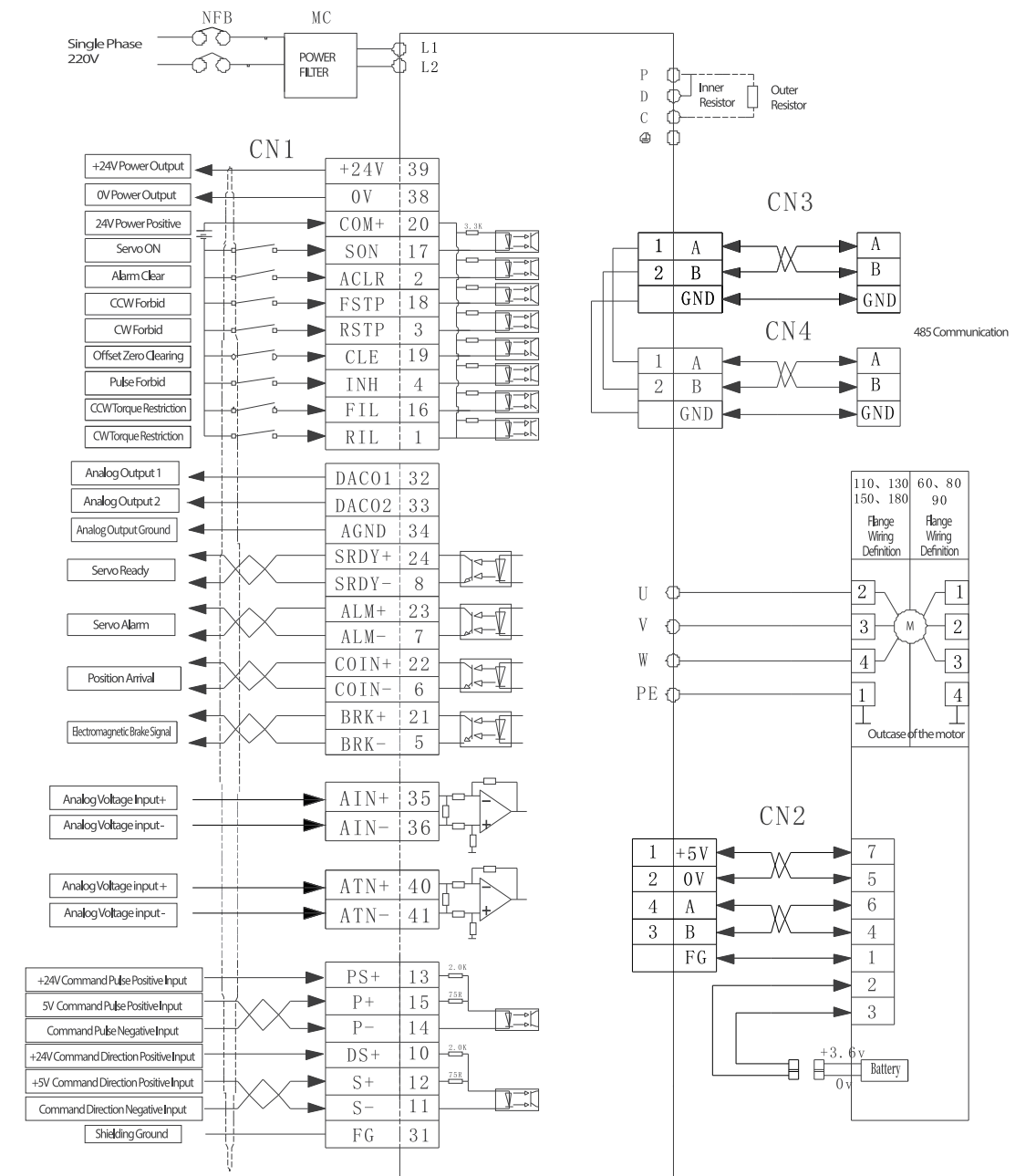
Note: the function of DI/D0 port is definable. The setting in the diagram is the default setting. It meets the general application. The user can change it as wanted.

Features

- ◆ Control Mode: Position/speed/torque/position and speed/position and torque/speed and torque/ inner fixed-length/Modbus motion controls
- ◆ Applicable encoder: 17/23bit absolute encoder
- ◆ Two channel analog input, means speed control and torque control
- ◆ Two channel analog output, can show speed, current and torque and other info
- ◆ Optimized the braking system, it is applicable to frequent start and stop devices
- ◆ With 4 keys and 5 digital display tube, it is easy to operate
- ◆ Adaptive power: 0.05-1.0Kw



B2E Wiring Diagram

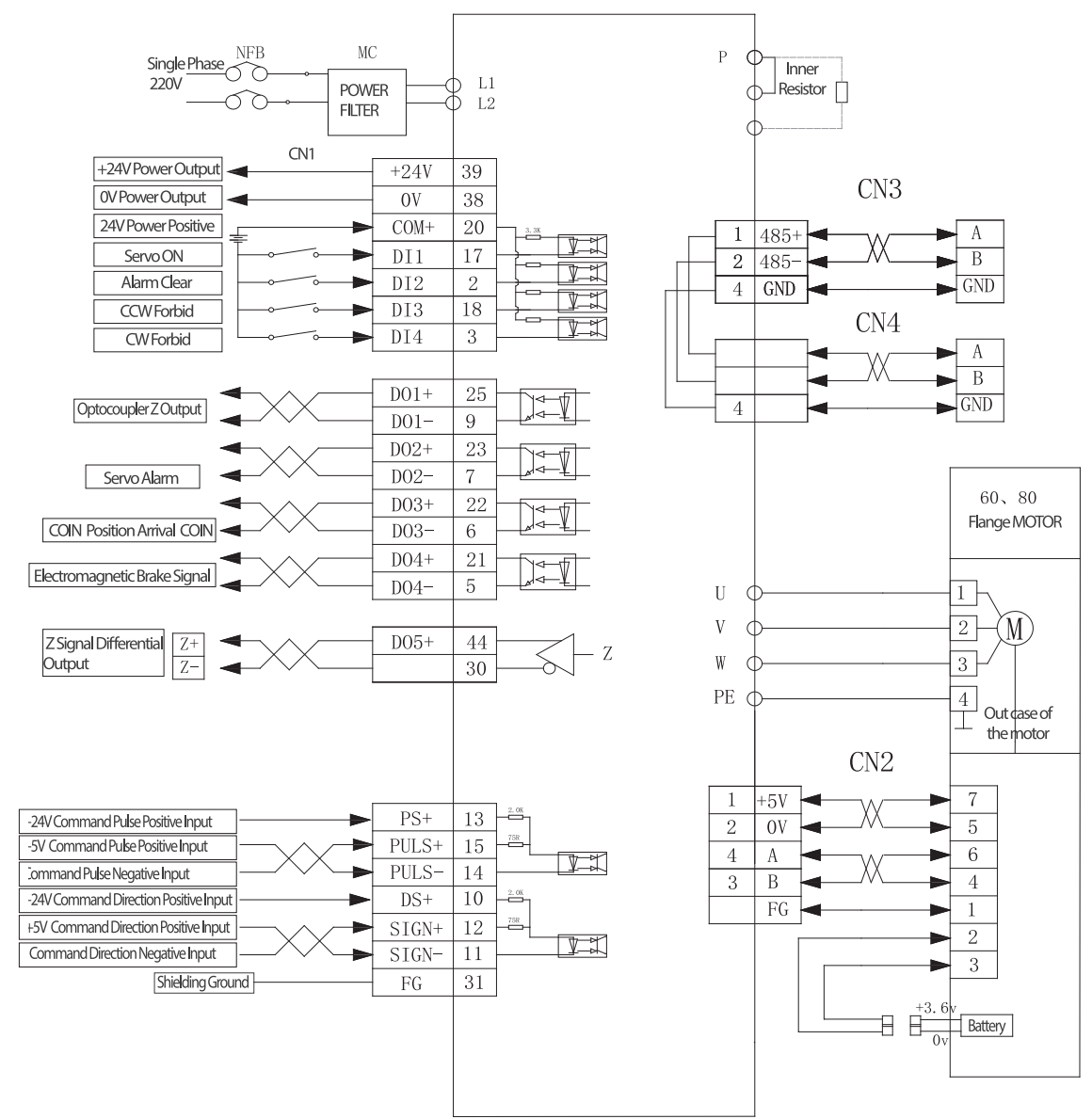


Features

- ◆ Control Mode:position/speed/torque/position and speed/position and torque/speed and torque/encoder zero setting
- ◆ Applicable encoder:17bit/23 bit absolute encoder
- ◆ RS485 MODBUS Communication
- ◆ Encoder fractional frequency can set at random
- ◆ Adopting the newest IPM(Intelligent Power Module)with small size,high over capacity and reliability
- ◆ With good dynamic response, it can ensure the equipment positioning control and stable low-speed operation application
- ◆ Optimized the braking system, it is applicable to frequent start and stop devices
- ◆ Easy to operate,can do trial operation,monitor and parameter setting with only 4keys
- ◆ Adaptive power:0.4-1.0Kw

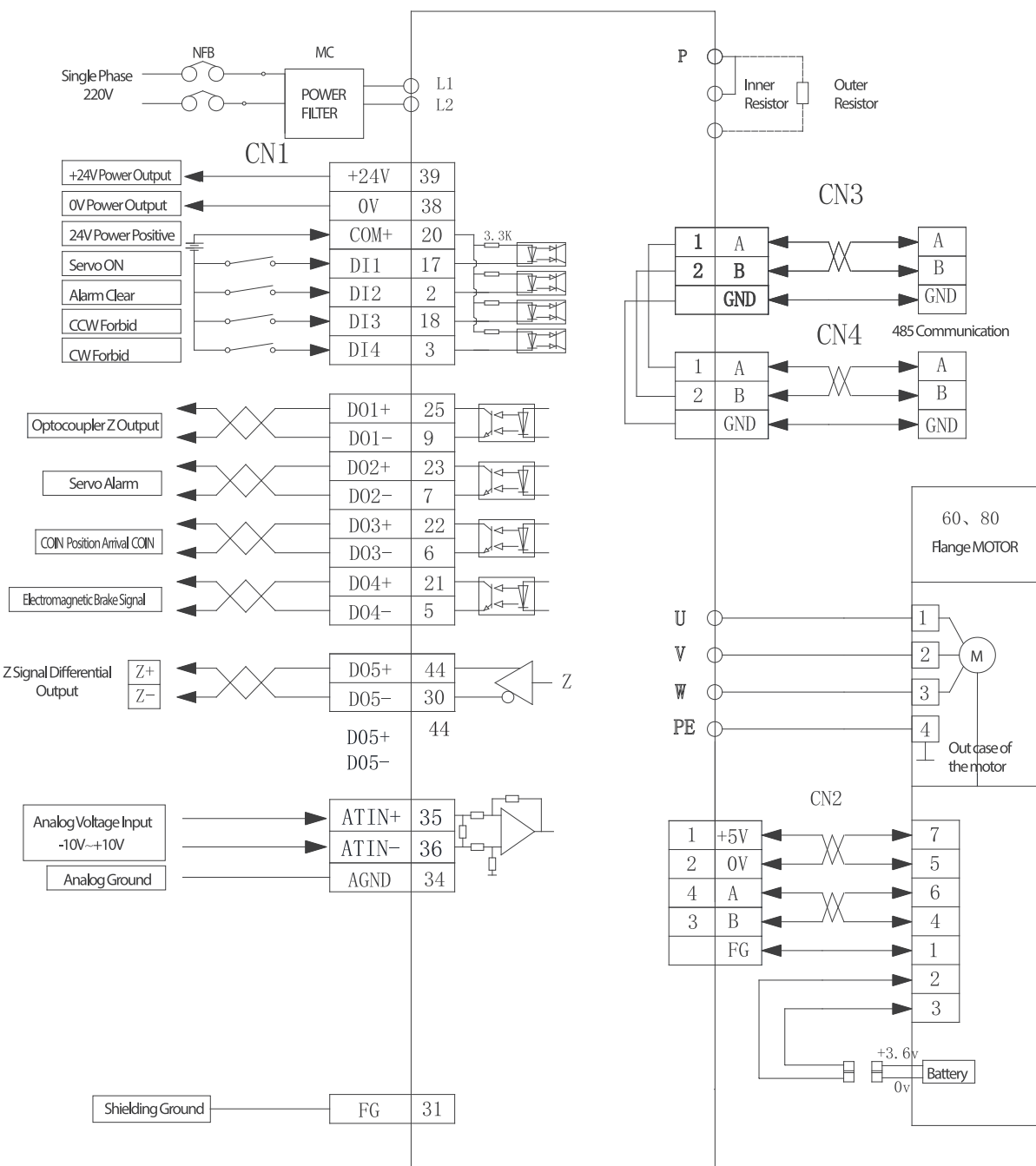
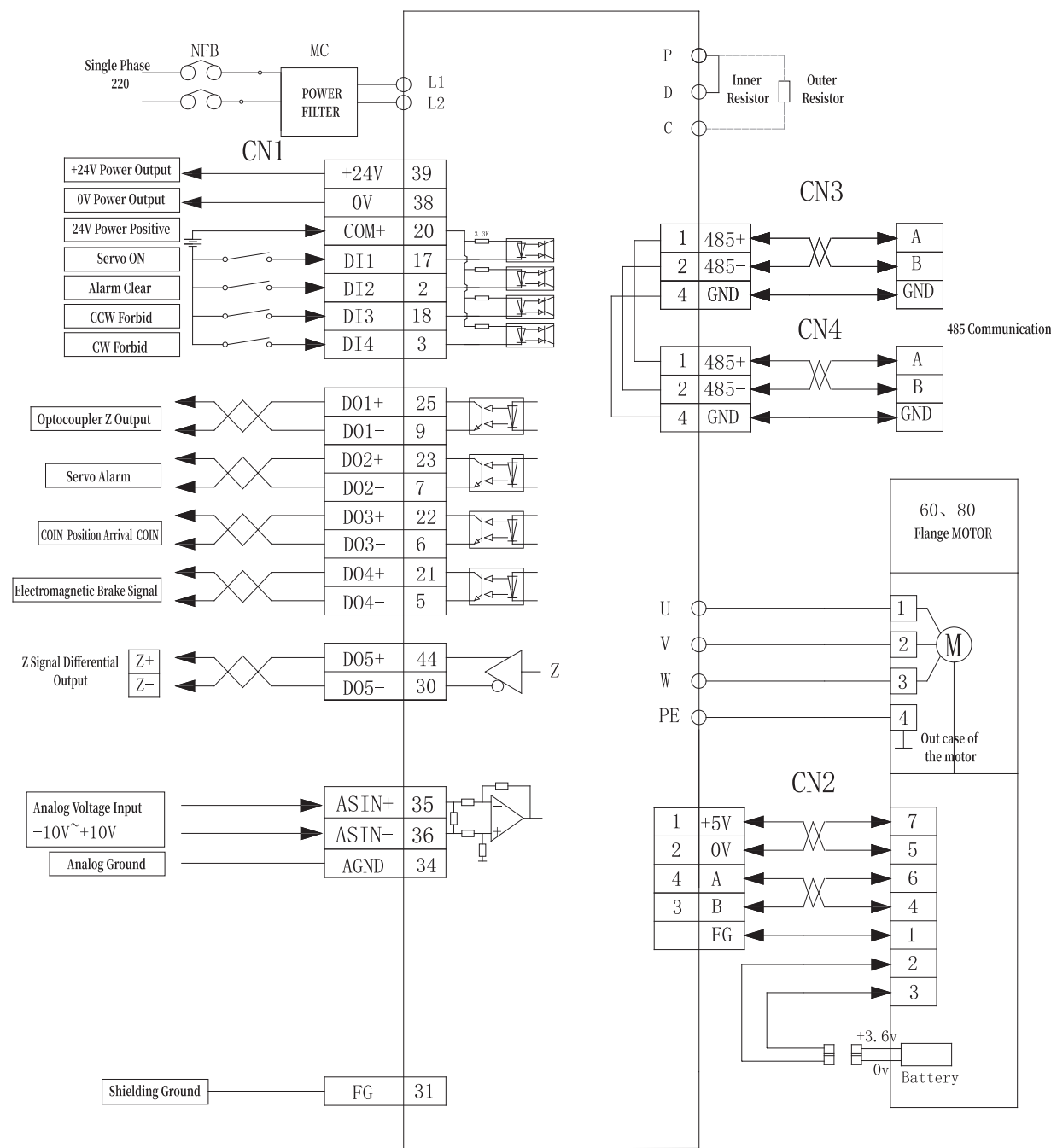


TSD Series Economical Servo Driver(Wiring of Position Mode)



TSD Series Economical Servo Driver(Wiring of Speed Mode)

TSD Series Economical Servo Driver(Wiring of Torque Mode)

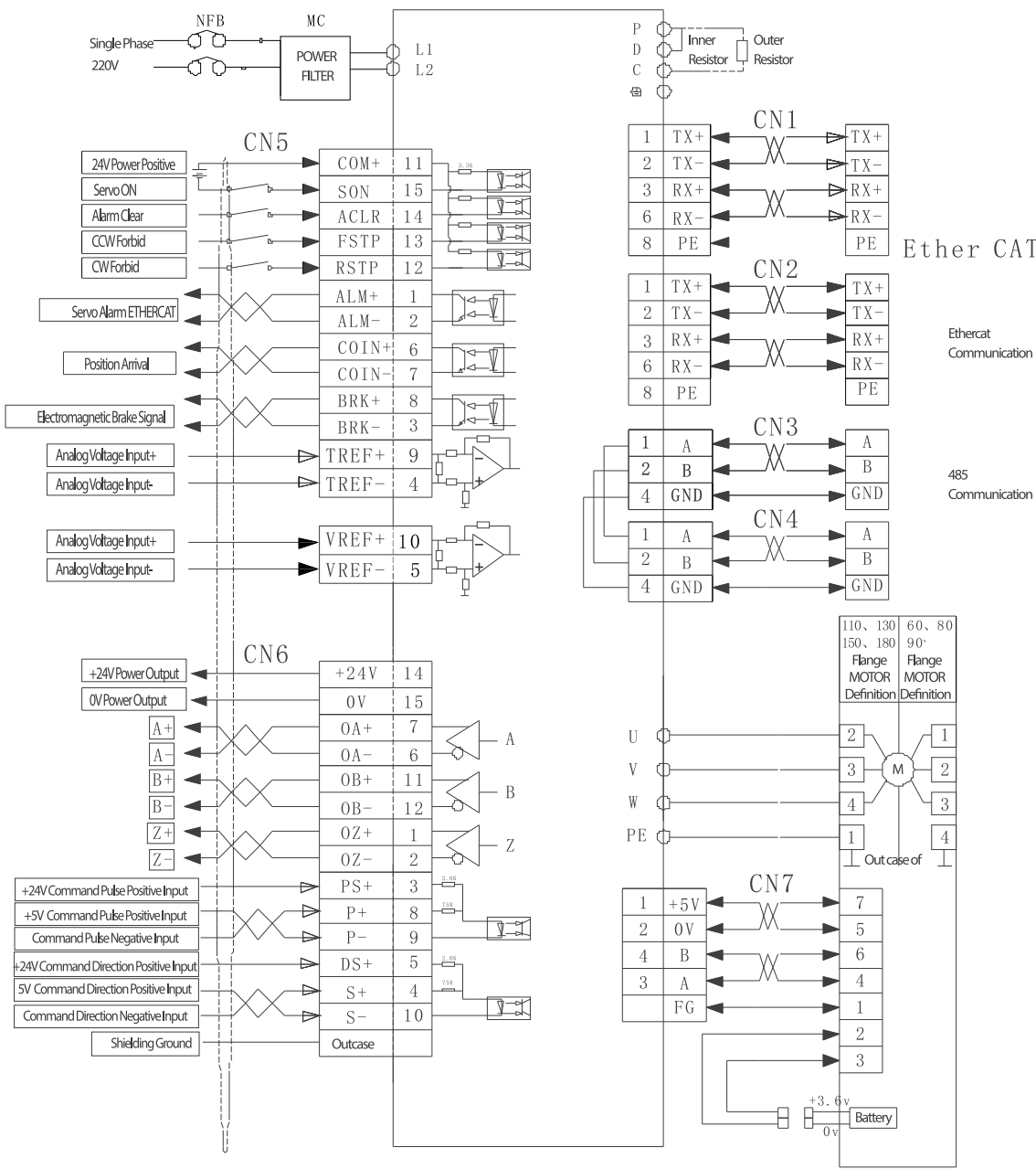


EH High Performance EtherCAT Servo Driver

Features

- ◆ High-speed,universal,high performance,compatible with pulse command
- ◆ Multi-model and wide applicable range:0.05-22KW
- ◆ Multiple Encoder:Wire-saving incremental encoder,17/23 bit absolute encoder
- ◆ Multi-voltage input: single/three phase AC100V,single/three phase AC220V,Three phase AC400
- ◆ Multi-communication protocol:Modbus,CANopen,EtherCAT
- ◆ Speed Frequency response at 1.6KHz
- ◆ Position feed-forward,current feed-forward, acceleration feed-forward control
- ◆ Online real time monitor load inertia, auto gain increase
- ◆ Low-frequency vibration restrain
- ◆ Low stiffness and high gain set
- ◆ Dynamic switch of electronic gear ratio
- ◆ Multiply Zero-returning function in position mode

EH Wiring Diagram



AC SERVO MOTOR

80	ST	M	024	30	L	4	Z
↓	↓	↓	↓	↓	↓	↓	↓
Flange 40 60 80 90 110 130 150 180	AC Permanent Magnet Synchronous Motor	Encoder Type M: 2500PPR Incremental M1: 5000PPR Incremental M2: 17bit Incremental S: 2500PPR Wire-saving C1:1000 PPR Magnetic Encoder C2:2500 PPR Magnetic Encoder C3:5000 PPR Magnetic Encoder C4:17 Bit Magnetic Encoder J:17 Bit Multi-turn Absolute J1:17 Bit Single-turn Absolute J2:23 Bit Multi-turn Absolute J3:17 Bit Single-turn Absolute CJ:17 Bit Magnetic Encoder Multi-turn CJ1:17 Bit Magnetic Encoder Single-turn CJ2:23 Bit Magnetic Encoder Multi-turn CJ3:23 Bit Magnetic Encoder Single-turn	Rated Torque Three Figure ×0.1 N.m Eg. 0.24 =2.4 N.m	Rated Speed Two Figure × 100rpm Eg. 30= 3000rpm	Working Voltage L:220 H:380	Pole Pairs 4:4 Pole Pairs 5:5 Pole Pairs	Brake Null: No brake Z: With Brake

Flange size:40,60,80,90,110,130,150,180

Feedback Element Code:M-Optoelectronic Pulse Encoder

Parameter Code:Front three figure means rated torque,
The next two figure means rated speed;
For Example 02030 means rated torque 2Nm,rated speed 3000rpm.

Generated Code:Z

WDM4 Motor Feature

WDM4 is high precision permanent 8 poles ac servo motor,it can adopt optoelectronic incremental 2500ppr,single and multi-turn 17bit and 23bit encoder. It can work with WEIDE B,B2,B2E,EH Series servo driver.Its power range from 200W to 7.5Kw. Motor Flange can be 40mm,60mm,80mm,90mm,110mm,130mm,180mm.Motor parts support brake and oil seal.

WDM5 Motor Feature

WDM5 is high precision permanent 10 poles ac servo motor,it adopts magnetic 17bit single and multi-turn encoder. It can work with WEIDE B2E, TSD, EH series Driver. Its power range is from 50W to 2.0Kw.Motor Flange can be 40mm,60mm,80mm,130mm.Motor parts support brake and oil seal.



WDM4 Servo Motor



60mm Flange Servo Motor

Model No	60ST-CJ100630					60ST-CJ101330					60ST-CJ101930					
Rated Power(W)	200					400					600					
Rated Voltage(V)	220					220					220					
Rated Current(A)	1.2					2.8					3.5					
Rated Speed(rpm)	3000					3000					3000					
Rate Torque(N.m)	0.637					1.27					1.91					
Peak Torue(N.m)	1.91					3.9					5.73					
Voltage Constant(V/1000r/min)	30.9					29.6					34					
Torque Coefficient(N.m/A)	0.53					0.45					0.55					
Rotor Inertia(Kg. m ²)	0.175*10 ⁻⁴					0.29*10 ⁻⁴					0.39*10 ⁻⁴					
Winding Resistance(Ω)	6.18±5%					2.35±5%					1.93±5%					
Winding Inductance(mH)	29.3±5%					14.5±5%					10.7±5%					
Electric Time Constant(ms)	4.74					6.17					5.5					
Weight(Kg)	1.16					1.16					2.07					
Wire Number Encoder(PPR)	Customized															
Insulation Class	ClassF															
IP	IP65															
Operation Environment	Temperature:-20℃~+40℃,Humidity:Relative humidity <90%(NO Dew)															
Winding Plug	Winding Lead wire	U(Red)			V(Yellow)				W(Blue)				PE(Yllow-green/Black)			
	Plug Serial Number	1			2				3				4			
Encoder Plug	Signal Wire	5V	0V	B+	Z-	U+	Z+	U-	A+	V+	W+	V-	A-	B-	W-	PE
	Plug Serial Number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1

80mm Flange Servo Motor

Model No	80ST-CJ101330				80ST-CJ102430				80ST-CJ103520				80ST-CJ104025			
Rated Power(W)	0.4				0.75				0.73				1.0			
Rated Voltage(V)	220				220				220				220			
Rated Current(A)	2				3				3				4.4			
Rated Speed(rpm)	3000				3000				2000				2500			
Rate Torque(N.m)	1.27				2.39				3.5				4			
Peak Torue(N.m)	3.8				7.1				10.5				12			
Peak Current(A)	6				9				9				13.2			
Voltage Constant(V/1000r/MIN)	40				48				71				56			
Torque Coefficiet(N.m)	0.64				0.8				1.17				0.9			
Peak Torque(KG. m ²)	1.05*10 ⁻⁴				1.82*10 ⁻⁴				2.63*10 ⁻⁴				2.97*10 ⁻⁴			
Winding Resistance(Ω)	4.44±5%				2.88±5%				3.65±5%				1.83±5%			
Winding Inductance(mH)	7.93±5%				6.4±5%				8.8±5%				4.72±5%			
Electic Time Constant(Ms)	1.66				2.22				2.4				2.58			
Weigh(KG)	1.78				2.9				3.9				4.1			
Encoder Wire Numbers(PPR)	Customized															
Insulation Class	ClassF															
IP	IP65															
Operation Environment	Temperature:-20℃~+40℃,Humidity: Relative humidity <90%(NO Dew)															
Winding Plug	Winding Lead wire	U(Red)			V(Yellow)			W(Blue)			PE(Yllow-green/Black)					
	Plug Serial Number	1			2			3			4					
Encoder Plug	Signal Wire	5V	0V	B+	Z-	U+	Z+	U-	A+	V+	W+	V-	A-	B-	W-	PE
	Plug Serial Number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1

90mm Flange Servo Motor

ModelNo	90ST-CJ102430				90ST-CJ103520				90ST-CJ104025				90ST-CJ104030				
Rated Power(W)	0.75				0.73				1.0				1.25				
Rated Voltage(V)	220				220				220				220				
Rated Current(A)	3				3				4				4.5				
Rated Speed(rpm)	3000				2000				2500				3000				
Rate Torque(N.m)	2.4				3.5				4.0				4.0				
PeakTorue(N.m)	7.1				10.5				12				12				
Peak Current(A)	9				9				12				13.5				
Voltage Constant(V/1000r/MIN)	51				67				60				51				
Torque Coeffciet(N.m)	0.8				1.2				1.0				0.88				
PeakTorque(KG. m ²)	2.45x10 ⁻³				3.4x10 ⁻³				3.7x10 ⁻³				3.7x10 ⁻³				
Winding Resistance(Ω)	3.2±5%				4.06±5%				2.69±5%				1.3±5%				
Winding Inductance(mH)	7.0±5%				9.7±5%				6.21±5%				3.43±5%				
Electric Time Constant(Ms)	2.2				2.39				2.3				2.63				
Weigh(KG)	3.1				3.9				4.2				4.2				
Encoder Wire Numbers(PPR)	Customized																
Insulation Class	ClassF																
IP	IP65																
Operation Environment	Temperature:-20℃~+40℃,Humidity:Relative humidity <90%(NO Dew)																
Winding Plug	Winding Lead wire	U(Red)				V(Yellow)				W(Blue)				PE(Yllow-green/Black)			
	Plug Serial Number	2				3				4				1			
Encoder Plug	Signal Wire	5V	0V	A +	B +	Z +	A -	B -	Z -	U +	V +	W +	U -	V -	W -	PE	
	Plug Serial Number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1	

110mm Flange Servo Motor

Model No	110ST-CJ102030	110ST-CJ104020				110ST-CJ104030				110ST-CJ105030				110ST-CJ106020				110ST-CJ106030			
Rated Power(W)	0.6	0.8				1.2				1.5				1.2				1.8			
Rated Voltage(V)	220	220				220				220				220				220			
Rated Current(A)	2.5	3.5				5.0				6.0				4.5				6.0			
Rated Speed(rpm)	3000	2000				3000				3000				2000				3000			
Rate Torque(N.m)	2	4				4				5				6				6			
Peak Torue(N.m)	6	12				12				15				12				12			
Peak Current(A)	7.5	10.5				15				18				13.5				18			
Voltage Constant(V/1000r/MIN)	56	79				54				62				83				60			
Torque Coeffciet(N.m)	0.8	1.14				0.8				0.83				1.3				1.0			
Peak Torque(KG. m ²)	0.31x10 ⁻³	0.54x10 ⁻³				0.54x10 ⁻³				0.63x10 ⁻³				0.76x10 ⁻³				0.76x10 ⁻³			
Winding Resistance(Ω)	3.6±5%	2.41±5%				1.09±5%				1.03±5%				1.46±5%				0.81±5%			
Winding Inductance(mH)	8.32±5%	7.3±5%				3.3±5%				3.43±5%				4.7±5%				2.59±5%			
Electric Time Constant(Ms)	2.3	3				3				3.33				3.2				3.2			
Weigh(KG)	4.5	6				6				6.8				7.9				7.9			
Encoder Wire Numbers(PPR)	Customized																				
Insulation Class	ClassF																				
IP	IP65																				
Operation Environment	Temperature:-20℃~+40℃,Humidity:Relative humidity <90%(NO Dew)																				
Winding Plug	Winding Lead wire	U(Red)				V(Yellow)				W(Blue)				PE(Yllow-green/Black)							
	Plug Serial Number	2				3				4				1							
Encoder Plug	Signal Wire	5V	0V	A+	B+	Z+	A-	B-	Z-	U+	V+	W+	U-	V-	W-	PE					
	Plug Serial Number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1					

WDM4 Servo Motor

WDM4 Servo Motor

130mm Flange Servo Motor（220V）

Model No	130ST-CJ104025	130ST-CJ105025	130ST-CJ106025	130ST-CJ107725	130ST-CJ110010	130ST-CJ110015	130ST-CJ110025	130ST-CJ115015	130ST-CJ115025							
Rated Power(W)	1.0	1.3	1.5	2.0	1.0	1.5	2.6	2.3	3.8							
Rated Voltage(V)	220	220	220	220	220	220	220	220	220							
Rated Current(A)	4.0	5.0	6.0	7.5	4.5	6.0	10	9.5	13.5							
Rated Speed(rpm)	2500	2500	2500	2500	1000	1500	2500	1500	2500							
Rate Torque(N.m)	4	5	6	7.7	10	10	10	15	15							
Peak Torue(N.m)	12	15	18	22	20	25	25	30	30							
Peak Current(A)	12	15	18	22.5	13.5	18	30	28.5	40.5							
Voltage Constant(V/1000r/MIN)	72	68	65	68	140	103	70	114	67							
Torque Coefficiet(N.m)	1.0	1.0	1.0	1.03	2.2	1.67	1.0	1.58	1.11							
Peak Torque(KG.m ²)	0.85x10 ⁻³	1.06x10 ⁻³	1.26x10 ⁻³	1.53x10 ⁻³	1.94x10 ⁻³	1.94x10 ⁻³	1.94x10 ⁻³	2.77x10 ⁻³	2.77x10 ⁻³							
Winding Resistance(Ω)	2.76±5%	1.84±5%	1.21±5%	1.01±5%	2.7±5%	1.5±5%	0.73±5%	1.1±5%	1.68±5%							
Winding Inductance(mH)	6.42±5%	4.9±5%	3.87±5%	2.94±5%	8.8±5%	4.37±5%	2.45±5%	4.45±5%	3.43±5%							
Electric Time Constant(Ms)	2.32	2.66	3.26	2.91	3.26	2.91	3.36	4.05	3.43							
Weigh(KG)	6.2	6.6	7.4	8.3	10.2	10.2	9.8	12.6	11.7							
Encoder Wire Numbers(PPR)	Customized															
Insulation Class	ClassF															
IP	IP65															
Operation Environment	Temperature:-20℃~+40℃,Humidity:Relative humidity <90%(NO Dew)															
Winding Plug	Winding Lead wire	U(Red)			V(Yellow)			W(Blue)			PE(Yellow-green/Black)					
	Plug Serial Number	2			3			4			1					
Encoder Plug	Signal Wire	5V	0V	A+	B+	Z+	A-	B-	Z-	U+	V+	W+	U-	V-	W-	PE
	Plug Serial Number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1

130mm Flange Servo Motor（380V）

Model No	130ST-CJ104025	130ST-CJ105025	130ST-CJ106025	130ST-CJ107725	130ST-CJ110010	130ST-CJ110015	130ST-CJ110020	130ST-CJ110025	130ST-CJ115015	130ST-CJ115025						
Rated Power(W)	1.0	1.3	1.5	2.0	1.0	1.5	2.0	2.6	2.3	3.8						
Rated Voltage(V)	380	380	380	380	380	380	380	380	380	380						
Rated Current(A)	2.6	3	3.7	4.7	2.5	3.5	5.1	6.0	5	7.4						
Rated Speed(rpm)	2500	2500	2500	2500	1000	1500	2000	2500	1500	2500						
Rate Torque(N.m)	4	5	6	7.7	10	10	10	10	15	15						
Peak Torue(N.m)	12	15	18	22	25	25	25	25	30	30						
Peak Current(A)	7.8	9	11.1	14.1	7.5	10.5	15.3	17.7	6.9	22.2						
Voltage Constant(V/1000r/MIN)	113	114	110	111	243	177	131	115	188	125						
Torque Coefficiet(N.m)	1.54	1.67	1.621	1.638	4	2.85	1.96	1.69	3	2.03						
Peak Torque(KG. m ²)	0.85×10 ⁻³	1.06×10 ⁻³	1.26×10 ⁻³	1.53×10 ⁻³	1.94×10 ⁻³	1.94×10 ⁻³	1.94×10 ⁻³	1.94×10 ⁻³	2.77×10 ⁻³	2.77×10 ⁻³						
Winding Resistance(Ω)	6.27±5%	5.1±5%	3.4±5%	2.49±5%	8.17±5%	4.37±5%	2.33±5%	1.986±5%	3.27±5%	1.41±5%						
Winding Inductance(mH)	15.53±5%	12.31±5%	9.23±5%	7.08±5%	26.7±5%	13.12±5%	8.2±5%	6.2±5%	12.36±5%	5.5±5%						
Electric Time Constant(Ms)	2.48	2.41	2.7	2.84	3.268	3	3.5	3.12	3.78	3.9						
Weigh(KG)	7.7	8.2	8.9	10	11.5	11.5	11.5	11.5	14.5	14.5						
Encoder Wire Numbers(PPR)	Customized															
Insulation Class	ClassF															
IP	IP65															
Operation Environment	Temperature:-20℃~+40℃,Humidity:Relative humidity <90%(NO Dew)															
Winding Plug	Winding Lead wire	U(Red)			V(Yellow)			W(Blue)			PE(Yellow-green/Black)					
	Plug Serial Number	2			3			4			1					
Encoder Plug	Signal Wire	5V	0V	A+	B+	Z+	A-	B-	Z-	U+	V+	W+	U-	V-	W-	PE
	Plug Serial Number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1

WDM4 Servo Motor

WDM4 Servo Motor

180mm Flange Servo Motor （220V）

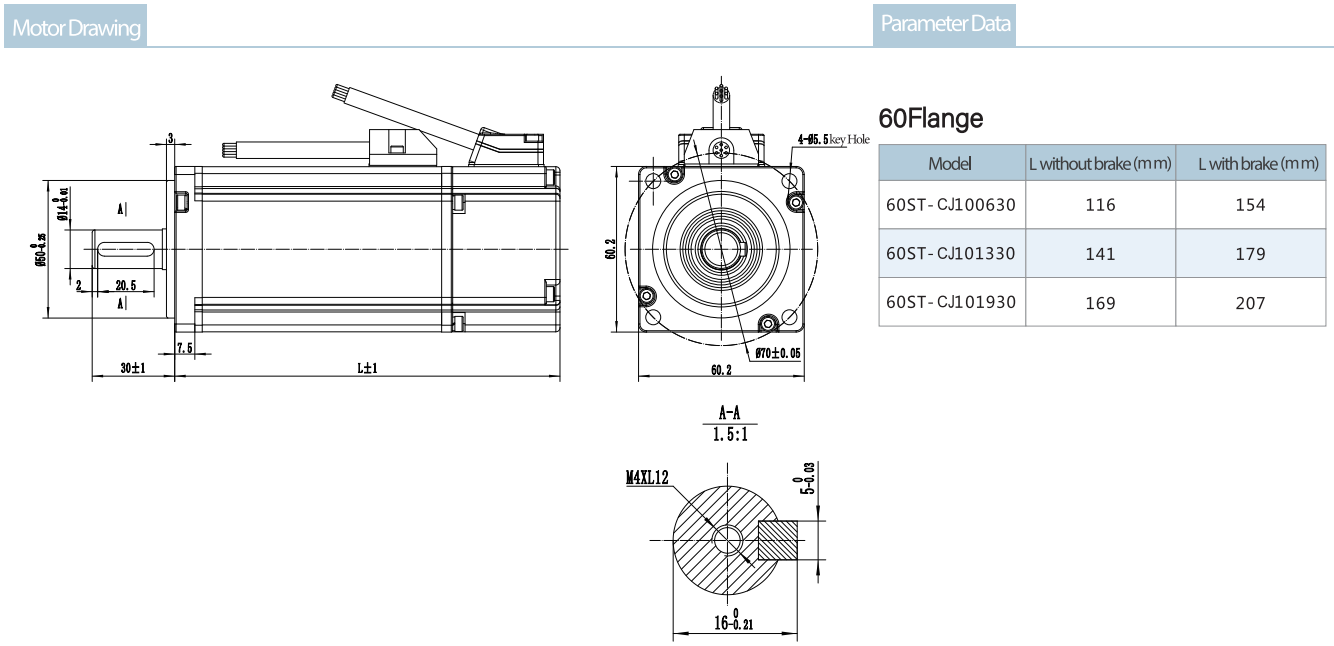
Model No	180ST-CJ117215	180ST-CJ119015	180ST-CJ121520	180ST-CJ127010	180ST-CJ127015	180ST-CJ135010	180ST-CJ135015	180ST-CJ148015								
Rated Power(W)	2.7	3.0	4.5	2.9	4.3	3.7	5.5	7.5								
Rated Voltage(V)	220	220	220	220	220	220	220	220								
Rated Current(A)	10.5	12	16	12	16	16	24	32								
Rated Speed(rpm)	1500	1500	2000	1000	1500	1000	1500	1500								
Rate Torque(N.m)	17.2	19	21.5	27	27	35	35	48								
Peak Torue(N.m)	43	47	53	67	67	70	70	96								
Peak Current(A)	31.5	36	48	36	48	48	72	96								
Voltage Constant(V/1000r/MIN)	112	97	84	138	103	134	90	94								
Torque Coeffciet(N.m)	1.64	1.58	1.34	2.25	1.69	2.2	1.45	1.5								
Peak Torque(KG. m ²)	6.5x10 ⁻³	7.0x10 ⁻³	7.96x10 ⁻³	9.64x10 ⁻³	9.64x10 ⁻³	12.25x10 ⁻³	12.25x10 ⁻³	16.72x10 ⁻³								
Winding Resistance(Ω)	0.7±5%	0.4±5%	0.24±5%	0.48±5%	0.28±5%	0.31±5%	0.14±5%	0.104±5%								
Winding Inductance(mH)	3.5±5%	2.42±5%	1.45±5%	3.26±5%	1.74±5%	2.11±5%	1.0±5%	0.77±5%								
Electric Time Constant(Ms)	5	6	6	6.79	3.33	3.2	7.14	7.4								
Weigh(KG)	19.5	20.5	22.2	25.5	6.8	7.9	30.5	40								
Encoder Wire Numbers(PPR)	Customized															
Insulation Class	ClassF															
IP	IP65															
Operation Environment	Temperature:20℃~+40℃;Humidity:Relative humidity <90%(NO Dew)															
Winding Plug	Winding Lead wire	U(Red)			V(Yellow)			W(Blue)			PE(Yllow-green/Black)					
	Plug Serial Number	2			3			4			1					
Encoder Plug	Signal Wire	5V	0V	A+	B+	Z+	A-	B-	Z-	U+	V+	W+	U-	V	W-	PE
	Plug Serial Number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1

180mm Flange Servo Motor （380V）

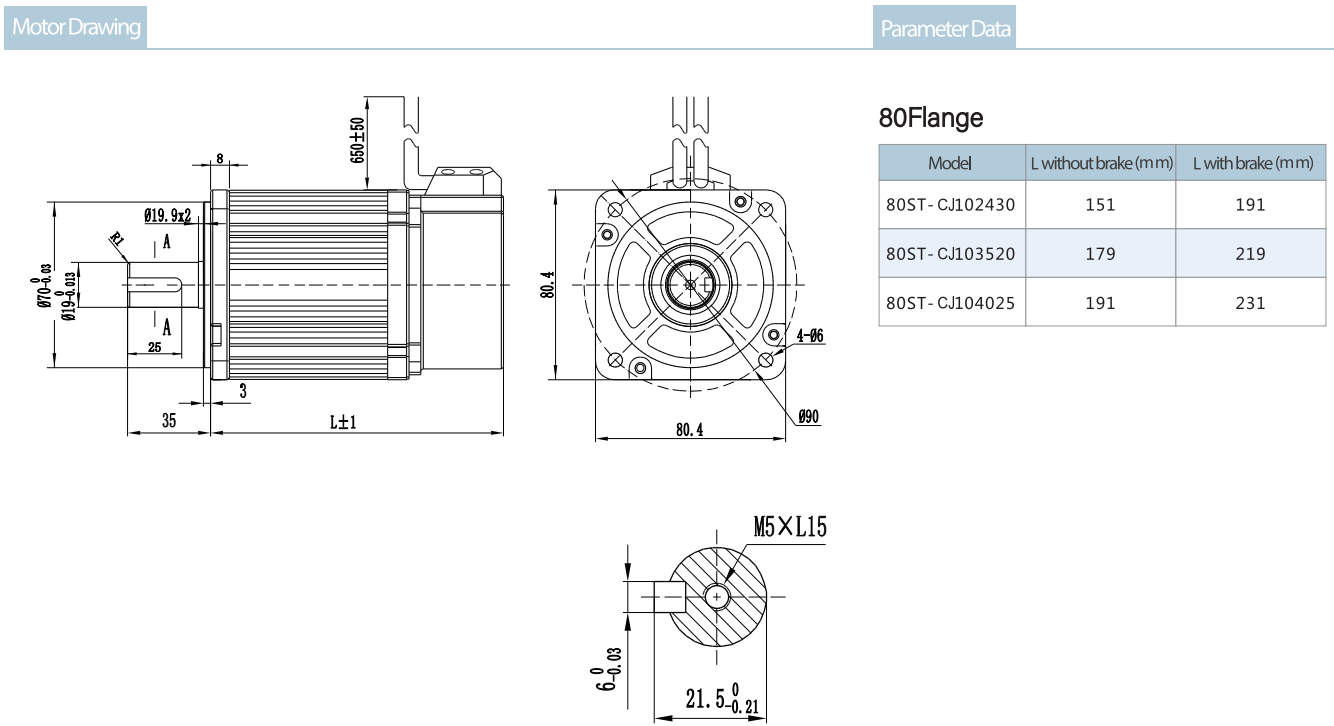
Model No	180ST-CJ117215	180ST-CJ119015	180ST-CJ121520	180ST-CJ127010	180ST-CJ127015	180ST-CJ135010	180ST-CJ135015	180ST-CJ148015								
Rated Power(W)	2.7	3.0	4.5	2.9	4.3	3.7	5.5	7.5								
Rated Voltage(V)	380	380	380	380	380	380	380	380								
Rated Current(A)	6.5	7.5	9.5	7.5	10	10	12	20								
Rated Speed(rpm)	1500	1500	2000	1000	1500	1000	1500	1500								
Rate Torque(N.m)	17.2	19	21.5	27	27	35	35	48								
Peak Torue(N.m)	43	47	53	67	67	70	70	96								
Peak Current(A)	19.5	22.5	28.5	22.5	30	30	36	60								
Voltage Constant(V/1000r/MIN)	167	170	140	224	172	223	181	156								
Torque Coeffciet(N.m)	2.65	2.5	2.26	3.6	2.7	3.5	2.9	2.4								
Peak Torque(KG. m ²)	6.5x10 ⁻³	7.0x10 ⁻³	7.96x10 ⁻³	9.64x10 ⁻³	9.64x10 ⁻³	12.25x10 ⁻³	12.25x10 ⁻³	16.72x10 ⁻³								
Winding Resistance(Ω)	1.47±5%	1.23±5%	0.71±5%	1.37±5%	0.796±5%	0.93±5%	0.62±5%	0.273±5%								
Winding Inductance(mH)	7.8±5%	7.3±5%	4±5%	8.6±5%	4.83±5%	5.86±5%	4±5%	2.14±5%								
Electric Time Constant(Ms)	5.3	5.93	5.6	6.27	6	6.3	6.45	7.8								
Weigh(KG)	19.5	20.5	22.2	25.5	6.8	7.9	30.5	40								
Encoder Wire Numbers(PPR)	Customized															
Insulation Class	ClassF															
IP	IP65															
Operation Environment	Temperature:20℃~+40℃;Humidity:Relative humidity <90%(NO Dew)															
Winding Plug	Winding Lead wire	U(Red)			V(Yellow)			W(Blue)			PE(Yllow-green/Black)					
	Plug Serial Number	2			3			4			1					
Encoder Plug	Signal Wire	5V	0V	A+	B+	Z+	A-	B-	Z-	U+	V+	W+	U-	V	W-	PE
	Plug Serial Number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1

Dimension

60 Flange Servo Motor Dimension(Unit:mm)

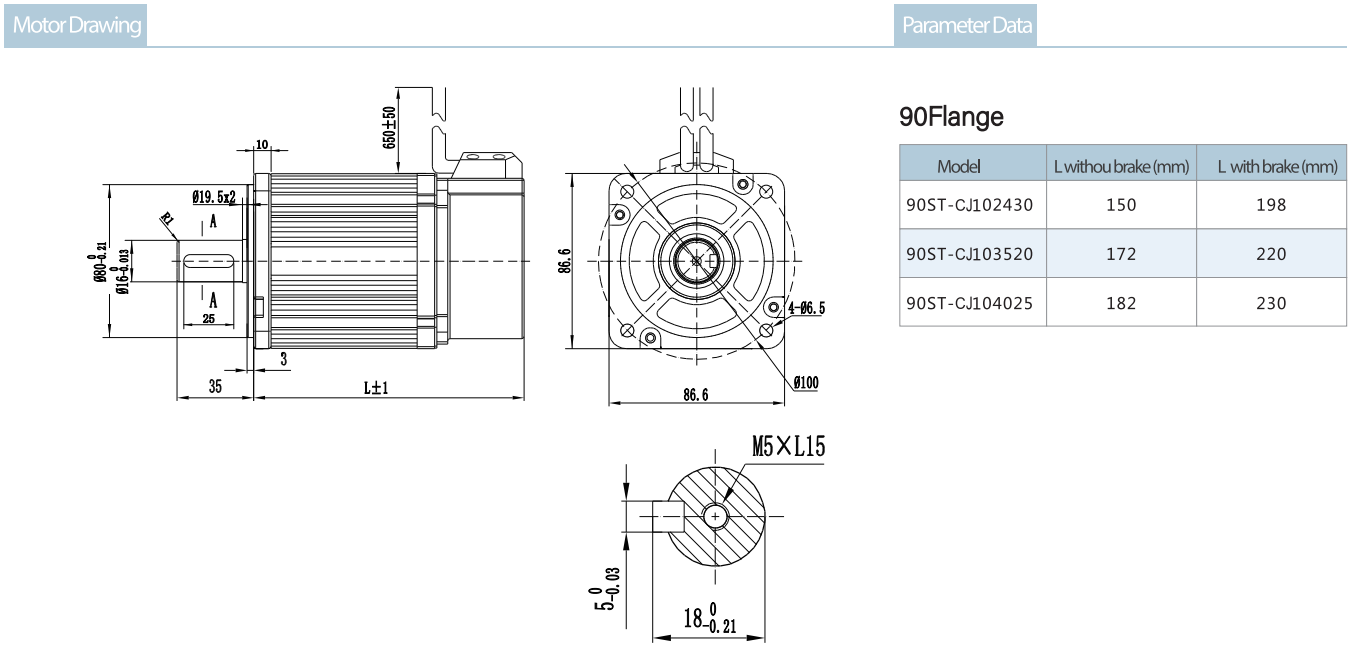


80 Flange Servo Motor Dimension(Unit:mm)

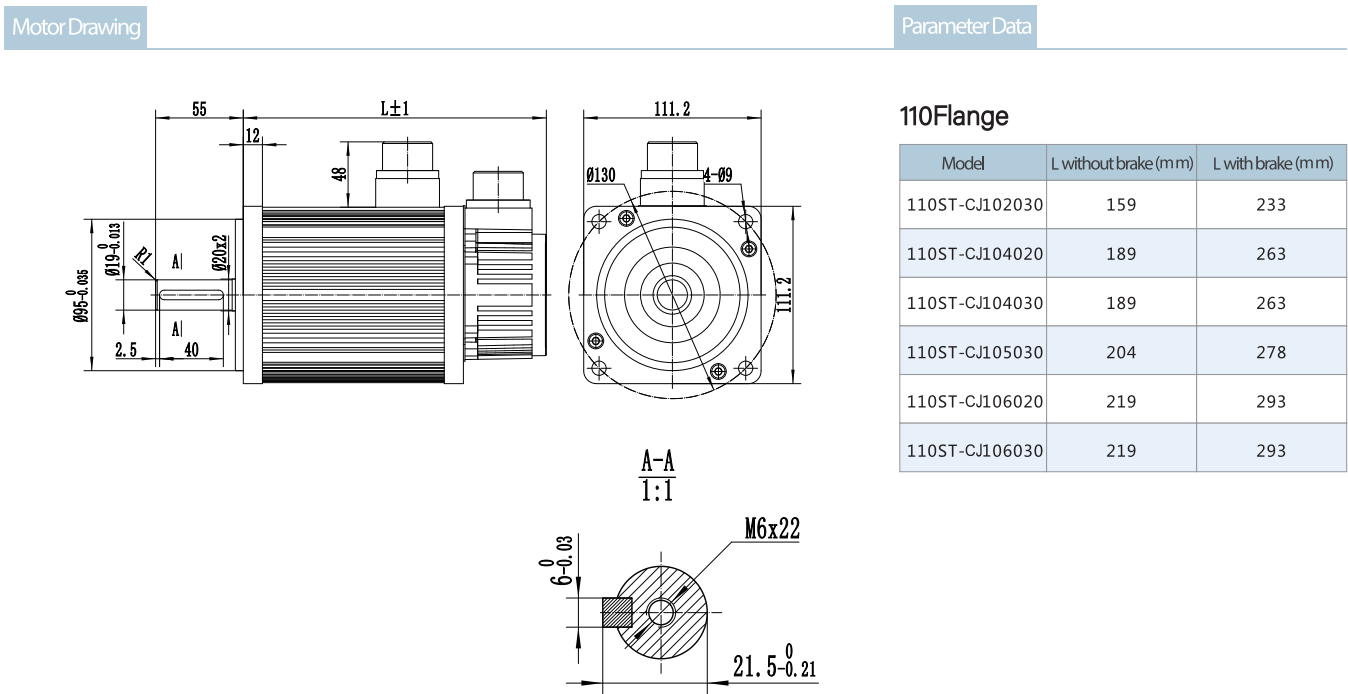


Dimension

90 Flange Servo Motor Dimension(Unit:mm)



110 Flange Servo Motor Dimension(Unit:mm)



WDM4 Servo Motor

WDM5 Servo Motor

Motor Model

130 Flange Servo Motor Dimension(Unit:mm)

Motor Drawing

Parameter Data

Technical drawing of a 130 Flange Servo Motor. The drawing includes three views: a side view, a front view, and a detail view of the mounting flange.

Side View Dimensions:

- Overall length: 57
- Flange thickness: 5.14
- Flange diameter: $\varnothing 110_{-0.08}^{+0}$
- Flange hole diameter: $\varnothing 22_{-0.013}^{+0}$
- Flange hole offset: 2.5
- Flange hole diameter: 40
- Flange hole offset: 1A
- Flange hole diameter: 1A

Front View Dimensions:

- Overall width: 130
- Flange thickness: 4.09
- Flange diameter: $\varnothing 145$
- Flange hole diameter: 4.09

Detail View Dimensions (A-A):

- Flange thickness: 6.0 $_{-0.018}^{+0}$
- Flange hole diameter: 24.5 $_{-0.21}^{+0}$
- Flange hole offset: 2:1
- Flange hole diameter: M6xL22

130Flange

Model	L without brake (mm)	L with brake (mm)
130ST-CJ104025	166	223
130ST-CJ105025	171	228
130ST-CJ106025	179	236
130ST-CJ107725	192	249
130ST-CJ110010	216	297
130ST-CJ110015	216	297
130ST-CJ110025	213	294
130DT-CJ115015	241	322
130ST-CJ115025	231	312

180 Flange Servo Motor Dimension(Unit:mm)

Motor Drawing

Parameter Data

180Flange

Model	L without brake (mm)	L with brake (mm)
180ST-CJ117215	226	298
180ST-CJ119015	232	304
180ST-CJ121520	243	315
180ST-CJ127010	262	334
180ST-CJ127015	262	334
180ST-CJ135010	292	364
180ST-CJ135015	292	364
180ST-CJ148015	364	418

Technical drawing of the 180 Flange Servo Motor. The drawing includes a side view and a front view. The side view shows the motor's profile with dimensions: 18, 48, 141, 65, 3.2, 3, 14.3, 14

Motor Model		50W	100W	200W	400W	600W
		Middle Inertia 40ST-CJ1000130	Middle Inertia 40ST-CJ100330	Low Inertia 60ST-CJ100630	Low Inertia 60ST-CJ101330	High inertia 60ST-CJ101930
Flange Size	mm	□40	□40	□60	□60	□60
Weight	No brake	Kg	0.35	0.47	1.01	1.28
	With brake		0.59	1.38	1.61	1.94
Rated Torque*	N·m	0.159	0.318	0.64	1.27	1.91
Max Torque*	N·m	0.477	0.954	1.92	3.81	5.73
Rated Speed*	rpm	3000	3000	3000	3000	3000
Max Speed*	rpm	6000	6000	6000	6000	5000
Rated Winding Current*	Arms	0.69	1.1	1.7	2.8	3.3
Max Winding Current*	Arms	2.07	3.3	5.1	8.4	9.9
Torque Coefficient**	N·m/Arms	0.272	0.289	0.416	0.477	0.576
Electric Potential Coefficient±10%**	mV/min ⁻¹	17.2	20.5	26.3	30.2	38.2
Winding Resistance**	Ω	26	14.3	5.9	3.07	3.06
Winding Inductance %10**	mH	20.7	14.8	18.3	11.5	12
Rotor Inertia	Without brake	Kg·m ² ×10 ⁻⁴	0.023	0.046	0.20	0.3
	With brake		0.043	0.066	0.22	0.32
Permitted Max Rotational Inertia		30Times	30Times	20Times	20Times	20Times
Rated Power Changeable Ratio*	kW/s	10.1	22	20.5	50.4	30.1
Electric Time Constant	ms	0.95	0.95	2.50	3.30	3.3
Mechanical Time Constant**	ms	1.73	1.73	5.06	1.48	1.48
Poles		8	8	10	10	10
Sensor		Incremental17bit /Absolute17bit				

*:The values are the stable operating when the motor installed on aluminum heat sink.
The heat sink size is 400x400x20mm.

**:The values are from winding temperature is 20℃.

Motor Model

Motor Model			750W	1KW	1KW	1.5KW	2KW
			Low Inertia 80ST-CJ102430	Low Inertia 80ST-CJ103230	Low Inertia 130ST-CJ104720	Low Inertia 130ST-CJ107220	Low Inertia 130ST-CJ109520
Flange Size		mm	□80	□80	□130	□130	□130
Weight	No brake	Kg	2.41	2.83	6.5	8.1	9.5
	With brake		3.07	3.5	8.2	9.4	11.1
Rated Torque		N·m	2.39	3.18	4.77	7.16	9.55
Max Torque*		N·m	7.17	9.52	14.3	21.5	28.6
Rated Speed*		rpm	3000	3000	2000	2000	2000
Max Speed*		rpm	5000	5000	3000	3000	3000
Rated Winding Current*		Arms	4.9	5.7	5.5	8	10
Max Winding Current*		Arms	14.7	17.1	16.5	24	30
Torque Coefficient*		N·m/Arms	0.488	0.57	0.92	0.895	0.895
Electric Potential Coefficient		mV/min ⁻¹	33.5	36.2	58.5	58.5	58.5
Winding Resistance		Ω	1.08	1.07	0.86	0.58	0.52
Winding Inductance		mH	6.1	6.9	7.7	5.21	5.3
Rotor Inertia	Without brake	Kg·m ² ×10 ⁻⁴	0.9	1.6	10.5	15.5	20.5
	With brake		0.96	1.63	12.1	17.1	22.1
Permitted Max Rotational Inertia			15 Times	15 Times	5 Times	5 Times	5 Times
Rated Power Changeable Ratio		kW/s	57.1	57.1	199	35.7	54
Electric Time Constant		ms	5.65	6.45	8.7	9	10.5
Mechanical Time Constäht		ms	1.31	1.31	3.8	3.3	1.6
Poles			10	10	10	10	10
Sensor			Incremental 17bit /Absolute 17bit				

*:The values are the stable operaing when the motor installed on aluminum heat sink.
The heat sink size is 400x400x20mm.

**:The values are from winding temperature is 20℃.

Dimension

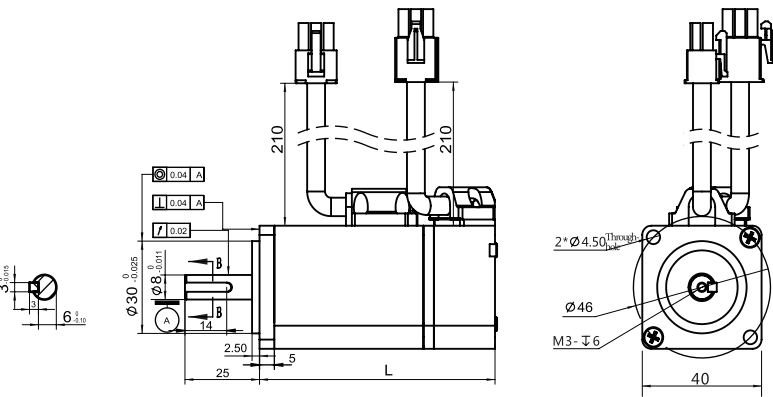
40 Servo Motor Dimension(Unit:mm)

Motor Drawing

Parameter Data

40Flange

Model	L without brake (mm)	L with brake (mm)
40ST-CJ100130	63.5	93.5
40ST-CJ100330	79	109



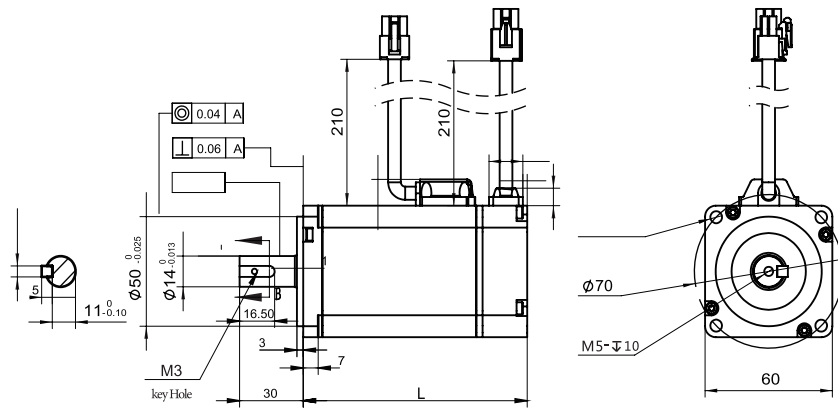
60 Servo Motor Dimension(Unit:mm)

Motor Drawing

Parameter Data

60Flange

Model	L without brake (mm)	L with brake (mm)
60ST-CJ100630	78.5	104
60ST-CJ101330	105.5	131.5
60ST-CJ101930	127.5	153.5



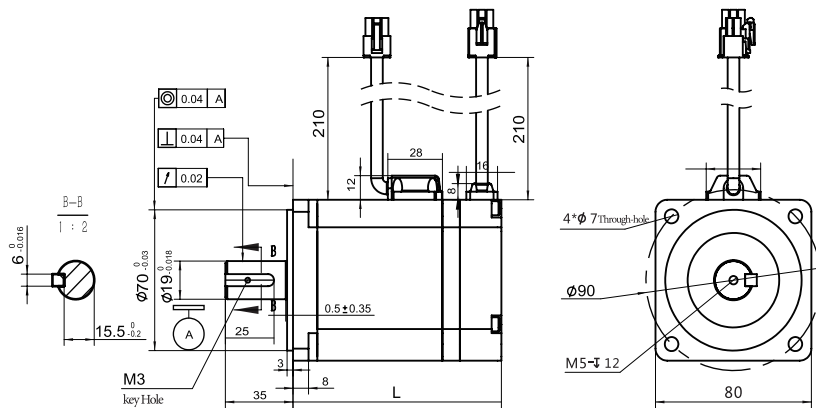
WDM5 Servo Motor FREQUENCY INVERTER

WDM5 Servo Motor FREQUENCY INVERTER

Dimension

■ 80Servo Motor Dimension(Unit:mm)

Motor Drawing



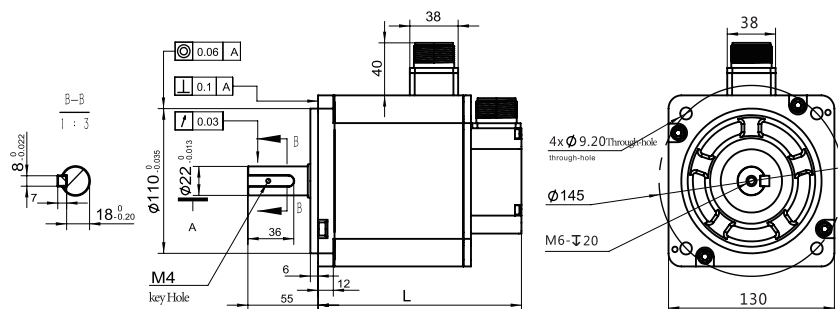
Parameter Data

80Flange

Model	L without brake (mm)	L with brake (mm)
80ST-CJ102430	114	143
80ST-CJ103230	126	155

■ 130 Servo Motor Dimension(Unit:mm)

Motor Drawing



Parameter Data

130Flange

Model	L without brake (mm)	L with brake (mm)
130ST-CJ104720	142.5	168.5
130ST-CJ107220	159.5	185.5
120ST-CJ109520	176.5	202.5

C200 Series Economical Inverter

Features

Brand-new design with attractive outlook.

Various installation supported,it also supports seamless guide rail installation.

Standard 485 communication port,support Modbus communication protocol.

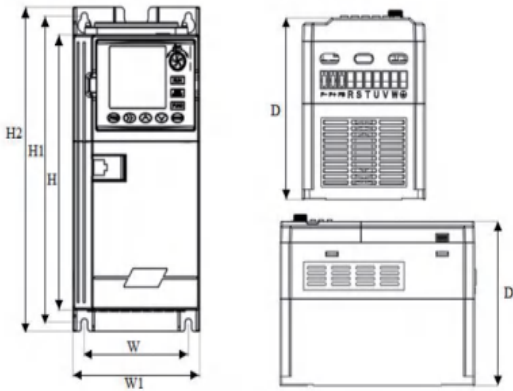


Function Features

Input	Rated Voltage/Frequency	3-phase(C200-T)380V/50/60HZ 3-phase(C200-S)220V/50/60HZ	
	Allowable range of voltage	3-phase(C200-T)320V~460V 3-phase(C200-S)190V~250V	
Output	Voltage	C200-T0~380V C200-S0~220V	
	Frequency	0~999.9HZ	
	Overload capacity	110% Long-term; 150% 1min; 180% 5s	
Control Mode		V/F Simple-vector; Advance-vector; Torque control	
Control Features	Frequency setting resolution	Analog terminal input	0.1% of the maximum output frequency
		Digital setting	0.1HZ
	frequency accuracy	Analog Input	Within 0.2% of the maximum output frequency
		Digital Input	Within 0.01% of the setting output frequency
	V/F Control	V/F curve	There are three ways: the first is linear torque characteristic curve, the second is square torque characteristic curve, and the third is user-set V/F curve
		Torque Lift	Manual setting: 0.0~30.0% of rated output Automatic lifting: Automatically determine lifting torque according to output current and motor parameters
		Automatic current/voltage limiting	Whether in the process of acceleration, deceleration or stable operation, the stator current and voltage of the motor is automatically measured, and it is suppressed within the permissible range according to the unique algorithm. Minimize the possibility of system failure tripping
	SLVC	Voltage frequency features	Automatic Adjust output voltage and frequency ratio according to motor parameter and unique algorithm.
		Torque features	Starting torque: 100% rated torque at 5.0Hz (V/F control) 150% rated torque at 1.5Hz (simple vector control) 150% rated torque at 0.5Hz (advanced vector control)
		Current & Voltage limited	Full current closed-loop control, completely avoid current impact, with perfect overcurrent and overcurrent inhibition function
	Undervoltage suppression in operation	Especially for users with low grid voltage and grid voltage frequency fluctuations, the system can maintain the maximum possible operation time even if the voltage is lower than the allowed range, according to the unique algorithm and residual energy distribution strategy	
Model Function	Multispeed operation	7 segments programmable multi-segment speed control, a variety of operating modes are optional	
	PID Control RS485 communication	Built-in PID controller (preset frequency). The RS485 communication function is standard, and multiple communication protocols are optional, providing linkage and synchronization control	
	Frequency Setting	Analog Input	DC voltage 0 to 10V DC current 0 to 20mA (upper and lower limits optional)
		Digital Input	Operation panel Settings RS485 interface Settings, UP/DW terminal control, can also be combined with analog input Settings
	Output signal	Digital Input	1 OC output and 1 fault relay output (TATQ), up to 17 meaning options
		Analog Input	1 analog signal output, output range between 0~20mA or 0~10V flexible setting, can achieve the set frequency, output frequency and other physical quantity output 0~20mA or 0~10V flexible setting, can achieve the set frequency, output frequency and other physical quantity output
	Automatic voltage control operation	According to the need can choose dynamic voltage, static voltage, unstable voltage three ways, in order to obtain the most stable operation effect	
	Acceleration/Deceleration time setting	0.15~999.9min continuous setting	
	Brake	Dynamic Braking DC braking	The energy consumption braking starting voltage, back difference voltage and energy consumption braking rate can be adjusted continuously DC braking starting frequency: 0.00~[F0.05] upper frequency Braking time: 0.0~30.0s; Braking current: 0.0%~50.0% rated voltage of motor
	Low-noise operation	The carrier frequency is continuously adjustable from 2.0KHZ to 20.0KHZ to minimize motor noise	
Counter	An internal counter facilitates system integration		
Operation Function	Upper and lower limit frequency setting, frequency jump operation, reversal operation limit, slip frequency compensation, RS485 communication, frequency increasing and decreasing control, fault recovery operation, etc		

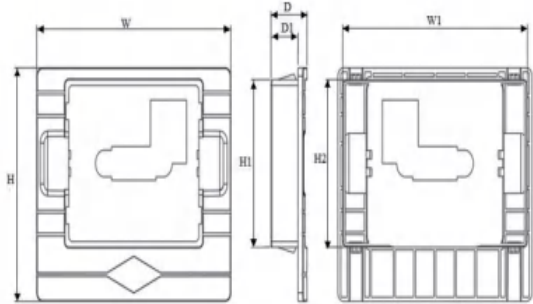
Model Number		Power	Brake resistance		Braking torque	Output Current
			W	Ω		
C200-S0.75GB	0.75	220V	150	110	125	4
C200-S1.5GB	1.5		250	250	125	7
C200-S2.2GB	2.2		300	300	125	9.6
C200-T0.75GB	0.75	380V	100	100	125	2.1
C200-T1.5GB	1.5		300	300	125	3.8
C200-T2.2GBC200	2.2		300	300	125	5.1
-T4GB/5.5PBC200	4		400	150	125	8.5
-T5.5GB/7.5PB	5.5		500	100	125	13

Installation Dimension



Model No	W(mm)	W1(mm)	H(mm)	H1(mm)	H2(mm)	D(mm)	Mounting hole(mm)
	Installation Dimension		Overall Dimension				
0.75KW-2.2KW	60	78	150	160	170	135	5
3.7KW-5.5KW	78	95	179	200	212	154	5

Keyboard Dimension



Keyboard base hole size					Keyboard thickness	
W	W1	H	H1	H2	D	D1
105mm	100mm	83mm	59.5mm	59.5mm	19.54mm	14.64mm

FEATURES

- ◆ Dual Digital display keyboard, clear interface
- ◆ With advanced open loop vector control technology, and excellent voltage and current control technology
- ◆ Starting Torque 0.5Hz/150% ,speed ratio 1:100, dynamic response <20ms,speed precision ±0.2%
- ◆ Wide voltage range design,AC 3PH:380V(-30%)~ 400V(+ 15%)
- ◆ Build-in Filter,with high EMC performance ,which can work in the place with electromagnetic interference
- ◆ Items below 30KW with build-in braking system
- ◆ Support DC BUS mode and DC power supply
- ◆ With various braking modes, such as dynamic braking, magnetic flux braking, and DC braking,it can stop at once
- ◆ No stop with instant power failure ,which meets various requirement of the customers



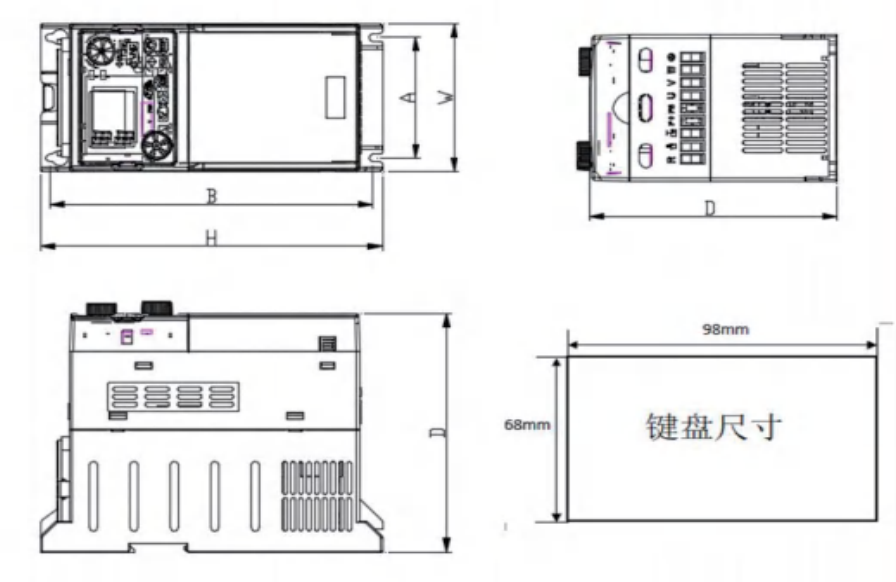
APPLICATION

Widely applied to plastic machine, air compressor, machine tool, construction machine, wooden machine, drawbench machine, shipbuilding, metallurgy, mine equipment, die casting equipment, etc.

Selection table

Model No.	Output Current(A)	Adaption Motor (KW,HP)	
C 300-T0.75GB	2.1	0.75	1
C 300-T1.5GB	3.8	1.5	2
C 300-T2.2GB	5.1	2.2	3
C 300-T4GB/5.5PB	8.5	4-5.5	5
C 300-T5.5GB/7.5PB	13	5.5-7.5	7.5
C 300-T7.5GB/11PB	16	7.5-11	10
C 300-T11GB/15PB	24	11-15	15
C 300-T15GB/18.5PB	32	15-18.5	20
C 300-T18.5GB/22PB	36	18.5-22	25
C 300-T22GB/30PB	44	22-30	30
C 300-T30GB/37PB	58	30-37	40

External Dimension



Model	A(mm)	B(mm)	H(mm)	W(mm)	D(mm)	Mounting
	Install dimension		Overall dimension			hole(mm)
0.75KW -5.5KW	78	200	212	95	154	78
7.5KW -11KW	129	230	240	140	180.5	129
15KW -30KW	188	305	322	205	199	188
37KW -45KW	195	430	450	270	265	195
55KW	240	541	560	320	280	240
75KW -110KW	240	646	665	380	282	240



FEATURES

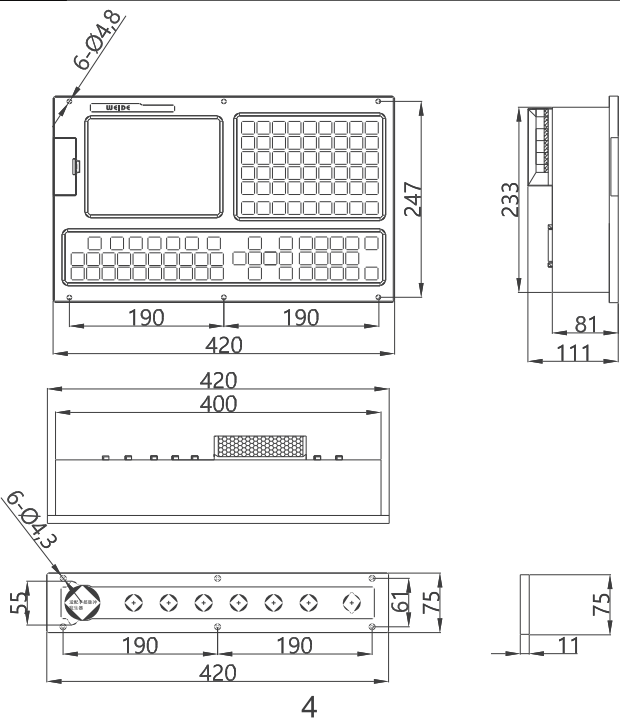
- 1ms interpolation period.control precision can be 0.001mm and 0.0001mm;
- Adopt RS485 Modbus communication protocol,it can set network with MES production system to provide customers with informatization management of whole production process(Optional);
- High Speed High Precision Thread Function;
- Absolute servo(multi-turn 17 bit/23 bit) modbus communication control;
- G65 directive A type Macro Program;
- Expressive B Type Macro program, it can edit mixing with A/B type macro program;
- With USB interface, it supports file configuration management and system upgrading;
- It equipped with build-in open type PLC, it can edit online;
- Unique high precision,smooth algorithm,with high surface processing roughness;
- G71 II type instructive supports the cycle cutting of groove shape outline(Optional);
- Elliptical Processing instructive(Optional);
- Mobile APP Password Type Installment Payment Manage.

980TE Turning CNC Controller

980ME Milling Machine CNC Controller

Technical Specification

Control Axes	*2 Axes(X,Z),3 Axes(X,Z,Y),4Axes(X,Z,A,B)
Feed Axis	*Min Input Unit:0.001mm~0.0001mm,selectable; *Position Control Range:-9999.9999mm~ +9999.9999mm; *Max Speed 100m/min;
Spindle	*1 channel encoder input, 1 channel 0~10V Analog Voltage output; *Flexible tapping,following Spindle encoder; *Four gears mechanical gear auto control;
C/S Function	*Rigid Tapping *Spindle Indexing *Turn-milling Combination
Tool/Tool Holder	*Support 4~8 station electric tool holder control;Horizontal tool 32,Lio Shing Turret,Servo Turret,Yantai AK31 Turret,etc; *Tool Length Compensation;Nose Radius Compensation(C Type);Tool Wear Compensation 32 Sets; *Tool Setting:Fixed position Tool Setting,Trial Cut Tool Setting,Return to Reference Point Tool Setting; *Tool Offset Execution Mode:Modify Coordinate Mode,Tool Movement Mode
Thread Processing	*Common Threading(follow the spindle),Rigid Threading(Cyclone Milling); *Single/Multi head metric and inch straight thread,taper thread,end face thread,uniform pitch thread,variable pitch thread; *Length,angle and speed of thread tail retract settable; *Thread Pitch:0.01~500mm or 0.06tooth/inch~25400 tooth/inch
Precision Compensation	*Pitch Error Compensation:compensation points,gap,original point is settable; *Backlash Compensation:can set a fixed frequency or ac/de mode to compensate backlash value
Interface	*8 Inch LCD Display; *Display in English or Chinese;2D tool path graph;Real-time Clock;
Com I/O Port	*IO unit Input/Output:24/24
Acceleration/Deceleration	*Linear Type/S type; *The starting speed,finished speed and time constant of acceleration and deceleration are set by the parameter.
G Code/M Function	*Standard G code; *Auxiliary Function Code:M,S,T



SUPPORT CAD FILE CHANGE TO G CODE AT ONE CLICK!



Parameter setting before CAD generated to G code.



CAD File read by the controller.



G Code generated from CAD.



FEATURES

1ms interpolation period,control precision can be 0.001mm and 0.0001mm;

Adopt RS485 Modbus communication protocol,it can set network with MES production system to provide customers with informatization management of whole production process(Optional);

Absolute servo(multi-turn 17 bit/23 bit) modbus communication control;

G65 directive A type Macro Program;

Expressive B Type Macro program, it can edit mixing with A/B type macro program; With USB interface, it supports file configuration management , DNC online processing and system upgrading;

It equipped with build-in open type PLC, it can edit online;

With current coordinate point printing and edit function;

Auto tool-setting;

Coordinate range I/O Control(G Code Programming);

CAD to G Code function(Optional);

Mobile APP Password Type Installment Payment Manage.

MECHATROLINK-II/ETHERCAT Turning CNC Controller

Vertical Type 218ME-V Five Axles CNC Controller



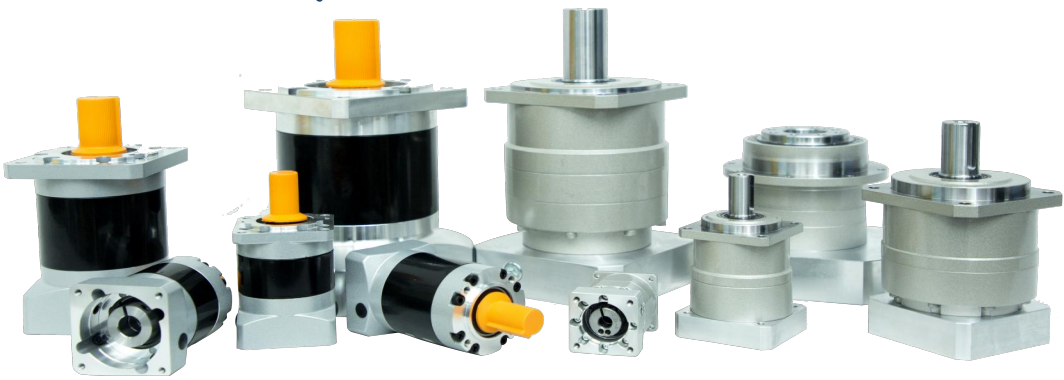
FEATURES

- 1ms interpolation period,control precision can be 0.001mm and 0.0001mm; Support Yasakwa Mechatrolink-II Protocol;
- Adopt RS485 Modbus communication protocol,it can set network with MES production system to provide customers with informatization management of whole production process(Optional);
- G65 directive A type Macro Program;
- Expressive B Type Macro program, it can edit mixing with A/B type macro program; With USB interface, it supports file configuration management and system upgrading; It equipped with build-in open type PLC, it can edit online;
- Unique high precision,smooth algorithm,with high surface processing roughness; Table Format user defined macro interface,it is convenient for secondary development;
- G71 II type instructive supports the cycle cutting of groove shape outline(Optional);
- CAD to G code function(Optional);
- Mobile APP Password Type Installment Payment Manage.

FEATURES

- 1ms interpolation period,control precision can be 0.001mm and 0.0001mm;
- Adopt RS485 Modbus communication protocol,it can set network with MES production system to provide customers with informatization management of whole production process(Optional) ;
- Absolute servo(multi-turn 17 bit/23 bit) modbus communication control;
- G65 directive A type Macro Program;
- Expressive B Type Macro program, it can edit mixing with A/B type macro program;
- With USB interface, it supports file configuration management , DNC online processing and system upgrading;
- It equipped with build-in open type PLC, it can edit online;
- With current coordinate point printing and edit function;
- Auto tool-setting;
- Coordinate range I/O Control(G Code Programming);
- CAD to G Code function(Optional);
- Mobile APP Password Type Installment Payment Manage.

SP Series Planetary Gearbox



TECHNICAL INFORMATION

Model	Unit	SP40	SP60	SP80	SP120	SP160	Gear ratio	Stage
Rated Output Torque	N.m	4.5	12	40	80	400	3	1
		6	16	50	100	450	4	
		6	16	50	110	450	5	
		5	15	45	120	450	8	
		5	15	45	120	305	10	
		16.5	44	110	210	400	9	2
		18	44	120	260	800	12	
		18	40	110	230	700	15	
		20	44	120	260	800	16	
		20	44	120	260	800	20	
		18	40	110	230	700	25	
		20	44	120	260	800	32	
		18	40	110	230	700	40	
		7.5	18	50	120	450	64	
		20	44	120	260	800	60	3
		20	44	120	260	800	80	
		20	44	120	260	800	100	
		18	40	110	230	700	120	
		20	44	120	260	800	160	
		18	40	110	230	700	200	
		20	44	120	260	800	256	
		18	40	110	230	700	320	
		7.5	18	50	120	450	512	

Model Number	SP40	SP60	SP80	SP120	SP160
Torsional stiffness	0.7	1.8	4.5	12	38
Noise Level	55	58	60	65	70
Max Input speed (rpm)	10000	8000	6000	6000	6000
Recommend Input speed (rpm)	4500	4000	4000	4000	3000
Max ratial torque(N)	160	340	650	1500	4200
Max axial torque(N)	160	450	900	2100	6000
Operating temperature	-25℃~90℃				
IP	IP54				
Lubrication	Life time lubrication				
Mount type	Any direction				

TECHNICAL INFORMATION

Model	Unit	SP40	SP60	SP80	SP120	SP160	Gear ratio	Stage
Moment of Inertia	Kgcm²	0.031	0.135	0.77	2.63	12.14	3	1
		0.022	0.093	0.52	1.79	7.78	4	
		0.019	0.078	0.45	1.53	6.07	5	
		0.017	0.065	0.39	1.32	4.63	8	
		0.015	0.054	0.34	1.14	3.52	10	
		0.030	0.131	0.74	2.62	12.1	9	2
		0.029	0.127	0.72	2.56	12.37	12	
		0.023	0.077	0.71	2.53	12.35	15	
		0.022	0.088	0.50	1.75	7.47	16	
		0.019	0.075	0.44	1.5	6.65	20	
		0.019	0.075	0.44	1.49	5.81	25	3
		0.017	0.064	0.39	1.3	4.5	32	
		0.016	0.064	0.39	1.3	4.5	40	
		0.016	0.064	0.39	1.3	4.5	64	
		0.029	0.13	0.70	2.57	12.1	60	
		0.019	0.075	0.50	1.5	5.81	80	
		0.019	0.075	0.44	1.49	5.8	100	
		0.029	0.13	0.70	2.5	12.1	120	
		0.016	0.064	0.39	1.3	4.5	160	
		0.016	0.064	0.39	1.3	4.5	200	
		0.016	0.064	0.39	1.3	4.5	256	
		0.016	0.064	0.39	1.3	4.5	320	
		0.016	0.064	0.39	1.3	4.5	512	

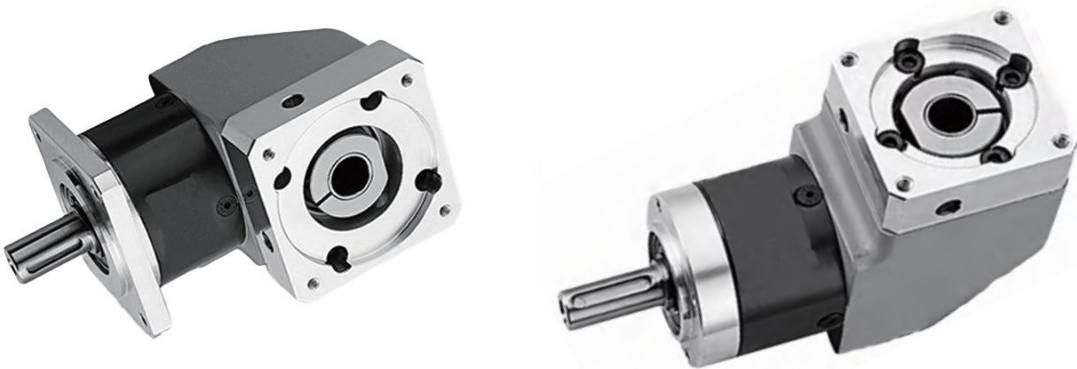
Model Number		SP40	SP60	SP80	SP120	SP160	Stage
Backlash	Arcmin	Precision	≤5	≤3	≤3	≤3	1
		Standard	≤10	≤8	≤8	≤8	
		Precision	≤8	≤5	≤5	≤5	2
		Standard	≤12	≤10	≤10	≤10	
		Precision	≤10	≤8	≤8	≤8	3
		Standard	≤15	≤12	≤12	≤12	

Model Number	SP40	SP60	SP80	SP120	SP160	Stage
Full load efficiency(%)	96					1
	94					2
	90					3
Net weight(Kg)	0.4	0.9	2.1	6	18	1
	0.5	1.1	2.6	8	22	2
	0.6	1.3	3.1	9.5	29	3

Working Life	30,000 hours
Instant stop torque	2 × Rated torque

WSP Series Plantary Gearbox

WSP Series Planetary Gearbox



TECHNICAL INFORMATION

Model	Unit	WSP40	WSP60	WSP80	WSP120	Gear ratio	Stage
Rated Output Torque	N.m	4.5	12	40	80	3	1
		6	16	50	100	4	
		6	16	50	110	5	
		5	15	45	120	8	
		5	15	45	120	10	
		16.5	44	110	210	9	
		18	44	120	260	12	2
		18	40	110	230	15	
		20	44	120	260	16	
		20	44	120	260	20	
		18	40	110	230	25	
		20	44	120	260	32	
		18	40	110	230	40	3
		7.5	18	50	120	64	
		20	44	120	260	60	
		20	44	120	260	80	
		20	44	120	260	100	
		18	40	110	230	120	
		20	44	120	260	160	
		18	40	110	230	200	
		20	44	120	260	256	
		18	40	110	230	320	
		7.5	18	50	120	512	

Model Number	WSP40	WSP60	WSP80	WSP120
Noise Level	65	65	68	70
Max Input speed (rpm)	18000	13000	7000	6500
Recommend Input speed (rpm)	4500	3000	3000	3000
Max ratial torque(N)	160	340	650	1500
Max axial torque(N)	160	450	900	2100
Operating temperature	-25℃~90℃			
IP	IP54			
Lubrication	Life time lubrication			
Mount type	Any direction			

TECHNICAL INFORMATION

Model	Unit	WSP40	WSP60	WSP80	WSP120	Gear ratio	Stage
Moment of Inertia	Kgcm²	0.044	0.246	1.189	5.75	3	1
		0.035	0.204	0.939	3.91	4	
		0.032	0.189	0.869	3.35	5	
		0.03	0.176	0.809	2.89	8	
		0.026	0.152	0.73	2.54	10	
		0.043	0.242	1.15	5.73	9	2
		0.042	0.238	1.139	2.6	12	
		0.036	0.188	1.129	5.53	15	
		0.035	0.199	0.919	3.83	16	
		0.032	0.186	0.859	3.26	20	
		0.032	0.186	0.859	2.84	25	3
		0.03	0.175	0.809	2.84	32	
		0.029	0.175	0.809	2.84	40	
		0.029	0.175	0.809	5.62	64	
		0.042	0.187	0.929	3.28	60	
		0.032	0.186	0.919	5.81	80	
		0.032	0.186	0.859	3.26	100	
		0.042	0.175	0.119	5.47	120	
		0.029	0.175	0.809	2.84	160	
		0.029	0.175	0.809	2.84	200	
		0.029	0.175	0.809	2.84	256	
		0.029	0.175	0.809	2.84	320	
		0.029	0.175	0.809	2.84	512	

Model			WSP40	WSP60	WSP80	WSP120	Stage
Backlash	Arcmin	Standard	≤40	≤30	≤25	≤15	1
		Standard	≤45	≤35	≤30	≤20	2
		Standard	≤50	≤40	≤40	≤25	3
Full load efficiency(%)			94				1
			92				2
			88				3
Net weight(Kg)			0.51	0.51	0.51	12	1
			0.61	0.61	0.61	14	2
			0.71	0.71	0.71	16	3
Torsional stiffness			0.7	1.5	4.5	10	1
			1.1	2.5	6.5	13	2
			1	2.5	6.3	12	3

Working Life	30,000 hours
Instant stop torque	2 × Rated torque

SPB Series Planetary Gearbox

SPB Series Planetary Gearbox



TECHNICAL INFORMATION

Model	Unit	60 SPB	60(A) SPB	90 SPB	90(A) SPB	115 SPB	142 SPB	180 SPB	220 SPB	Gear ratio	Stage
Rated Output Torque	Nm	55	/	130	/	208	342	588	1140	3	1
		50	/	140	/	290	542	1050	1700	4	
		60	/	160	/	330	650	1200	2000	5	
		55	/	150	/	310	600	1100	1900	6	
		50	/	140	/	300	550	1100	1800	7	
		45	/	120	/	260	500	1000	1600	8	
		40	/	100	/	230	450	900	1500	9	
		40	/	100	/	230	450	900	1500	10	
		55	55	130	130	208	342	588	1140	15	
		50	50	140	140	290	542	1050	1700	20	
		60	60	160	160	330	650	1200	2000	25	2
		55	55	150	150	310	600	1100	1900	30	
		50	50	140	140	300	550	1100	1800	35	
		45	45	120	120	260	500	1000	1600	40	
		40	40	100	100	230	450	900	1500	45	
		60	60	160	160	330	650	1200	2000	50	
		55	55	150	150	310	600	1100	1900	60	
		50	50	140	140	300	550	1100	1800	70	
		45	45	120	120	260	500	1000	1600	80	
		40	40	100	100	230	450	900	1500	90	
		40	40	100	100	230	450	900	1500	100	

Model	60SPB	60(A)SPB	90SPB	90(A)SPB	115SPB	142SPB	180SPB	220SPB
Noise Level	≤58	≤60	≤60	≤63	≤63	≤65	≤67	≤70
Max Input speed (rpm)	10000	10000	8000	8000	8000	6000	6000	4000
Recommend Input speed (rpm)	5000	5000	4000	4000	4000	3000	3000	2000
Max axial torque	1530	1530	3250	3250	6700	9400	14500	50000
Max ratial torque	765	765	1625	1655	3350	4700	7250	25000
Operating temperature	-10 C~90 C							
IP	IP65							
Lubrication	Life time lubrication							
Mount type	Any direction							

TECHNICAL INFORMATION

Model	Unit	60 SPB	60(A) SPB	90 SPB	90(A) SPB	115 SPB	142 SPB	180 SPB	220 SPB	Gear ratio	Stage
Moment of Inertia	Kgcm ²	0.16	/	130	/	3.25	9.21	28.98	69.61	3	1
		0.14	/	140	/	2.74	7.54	23.67	54.37	4	
		0.13	/	160	/	2.71	7.42	23.29	53.27	5	
		0.13	/	150	/	2.65	7.25	22.75	51.72	6	
		0.13	/	140	/	2.62	7.14	22.48	50.97	7	
		0.13	/	120	/	2.58	7.07	22.59	50.84	8	
		0.13	/	100	/	2.57	7.04	22.53	50.63	9	
		0.13	/	100	/	2.57	7.03	22.51	50.56	10	
		0.03	0.13	0.13	0.47	0.47	2.71	7.42	23.29	15	2
		0.03	0.13	0.13	0.47	0.47	2.71	7.42	23.29	20	
		0.03	0.13	0.13	0.47	0.47	2.71	7.42	23.29	25	
		0.03	0.13	0.13	0.47	0.47	2.71	7.42	23.29	30	
		0.03	0.13	0.13	0.47	0.47	2.71	7.42	23.29	35	
		0.03	0.13	0.13	0.47	0.47	2.71	7.42	23.29	40	
		0.03	0.13	0.13	0.47	0.47	2.71	7.42	23.29	45	
		0.03	0.13	0.13	0.44	0.44	2.57	7.03	22.51	50	
		0.03	0.13	0.13	0.44	0.44	2.57	7.03	22.51	60	
		0.03	0.13	0.13	0.44	0.44	2.57	7.03	22.51	70	
		0.03	0.13	0.13	0.44	0.44	2.57	7.03	22.51	80	
		0.03	0.13	0.13	0.44	0.44	2.57	7.03	22.51	90	
		0.03	0.13	0.13	0.44	0.44	2.57	7.03	22.51	100	

Model Number			60 SPB	60(A) SPB	90 SPB	90(A) SPB	115 SPB	142 SPB	180 SPB	220 SPB	Stage .
Backlash	Arcmin	Precision	≤3	/	≤3	/	≤3	≤3	≤3	≤3	1
		Standard	≤5	/	≤5	/	≤5	≤5	≤5	≤5	
		Precision	/	≤5	≤5	≤5	≤5	≤5	≤5	≤5	2
		Standard	/	≤7	≤7	≤7	≤7	≤7	≤7	≤7	
Torsional stiffness			7	7	14	14	25	50	145	225	1
			7	7	14	14	25	50	145	225	2
Full load efficiency(%)			≥97								1
			≥94								2
Net weight(Kg)			1.3	1.3	3.7	3.7	7.8	14.5	29	48	1
			1.5	1.9	4.1	5.3	9	17.5	33	60	2

Working Life	20,000 hours
Instant stop torque	3 × Rated torque