

WDM4 MOTOR FEATURE



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 WINMAN 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 WINMAN 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.

60mm Flange Servo Motor

Model No		60ST-CJ100630					60ST-CJ101330					60ST-CJ101930				
Rated Power (kW)		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 Torque (N.m)		1.91					3.9					5.73				
Voltage Constant (V/1000r/min)		30,9					29,6					34				
Torque Coefficient (N.m)		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				
Encoder Wire Numbers (PPR)		Customized														
Insulation Class		Class F														
Protection Class (IP)		IP65														
Operation Environment		Temperature: -20°C ~ +40°C Humidity: Relative Humidity < 90% (No Dew)														
Winding Plug	Winding Lead Wire	U (Red)				V (Yellow)				W (Blue)				PE (Yellow-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 (kW)		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 Torque (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 Coefficient (N.m)		0.64				0.8				1.17				0.9			
Peak Torque (Kg.m²)		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%			
Electric Time Constant (ms)		1.66				2.22				2.4				2.58			
Weight (Kg)		1.78				2.9				3.9				4.1			
Encoder Wire Numbers (PPR)		Customized															
Insulation Class		Class F															
Protection Class (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	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

Model No		90ST-CJ102430				90ST-CJ103520				90ST-CJ104025				90ST-CJ104030			
Rated Power (kW)		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			
Peak Torque (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 Coefficient (N.m)		0.8				1.2				1.0				0.88			
Peak Torque (Kg.m²)		2.45*10 ⁻³				3.4*10 ⁻³				3.7*10 ⁻³				3.7*10 ⁻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			
Weight (Kg)		3.1				3.9				4.2				4.2			
Encoder Wire Numbers (PPR)		Customized															
Insulation Class		Class F															
Protection Class (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+	V+	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 (kW)	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 Torque (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 Coefficient (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
Weight (Kg)	4.5	6	6	6.8	7.9	7.9
Encoder Wire Numbers (PPR)	Customized					
Insulation Class	Class F					
Protection Class (IP)	IP65					
Operation Environment	Temperature: -20°C ~ +40°C 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	

130 mm 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 (kW)	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 Torque (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 Coefficient (N.m)	1.0	1.0	1.0	1.03	2.2	1.67	1.0	1.58	1.11							
Peak Torque (Kg.m²)	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							
Weight (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	Class F															
Protection Class (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	OV	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

130 mm 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 (kW)	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 Torque (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 Coefficient (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)	0.85x10 ⁻³	1.06x10 ⁻³	1.26x10 ⁻³	1.53x10 ⁻³	1.94x10 ⁻³	1.94x10 ⁻³	1.94x10 ⁻³	1.94x10 ⁻³	2.77x10 ⁻³	2.77x10 ⁻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
Weight (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	Class F									
Protection Class (IP)	IP65									
Operation Environment	Temperature: -20°C ~ +40°C 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	OV	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	

180 mm Flange Servo Motor (220V)

Model No		180ST-CJ117215	180ST-CJ119015	180ST-CJ121520	180ST-CJ127010	180ST-CJ127015	180ST-CJ135010	180ST-CJ135015	180ST-CJ148015							
Rated Power (kW)		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 Torque (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 Coefficient (N.m)		1.64	1.58	1.34	2.25	1.69	2.2	1.45	1.5							
Peak Torque (Kg.m²)		6.5x10³	7.0x10³	7.96x10³	9.64x10³	9.64x10³	12.25x10³	12.25x10³	16.72x10³							
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							
Weight (Kg)		19.5	20.5	22.2	25.5	6.8	7.9	30.5	40							
Encoder Wire Numbers (PPR)		Customized														
Insulation Class		Class F														
Protection Class (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	OV	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

180 mm Flange Servo Motor (380V)

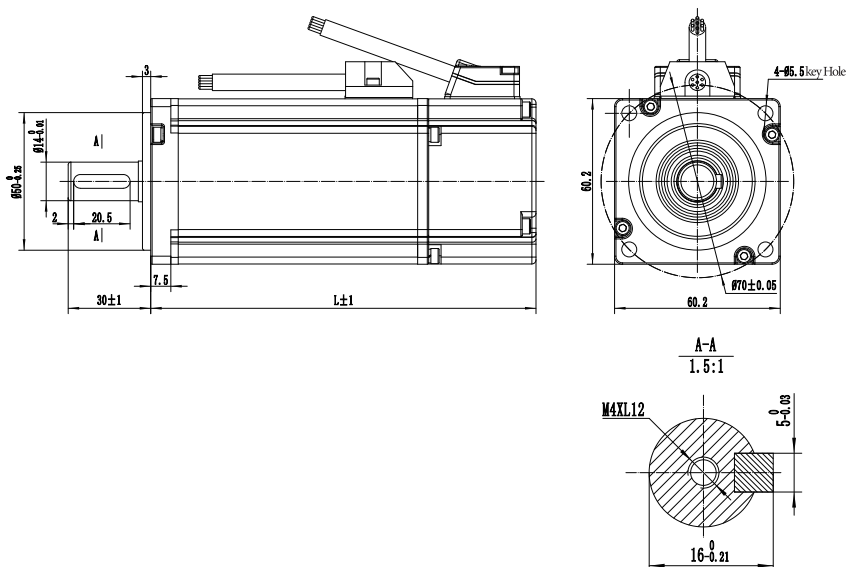
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Rated Power (W)	2.7	3.0	4.5	2.9	4.3	3.7	5.5	7.5
Rated Voltage (V)	380	380	380	380	380	380	380	380
Rated Current (A)	6.5	7.5	9.5	7.5	10	10	12	20
Rated Speed (rpm)	1500	1500	2000	1000	1500	1000	1500	1500
Rate Torque (N.m)	17.2	19	21.5	27	27	35	35	48
Peak Torque (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 Coefficient (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
Weight (Kg)	19.5	20.5	22.2	25.5	6.8	7.9	30.5	40
Encoder Wire Numbers (PPR)	Customized							
Insulation Class	Class F							
Protection Class (IP)	IP65							
Operation Environment	Temperature: -20°C ~ +40°C 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	OV	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)

Motor Drawing



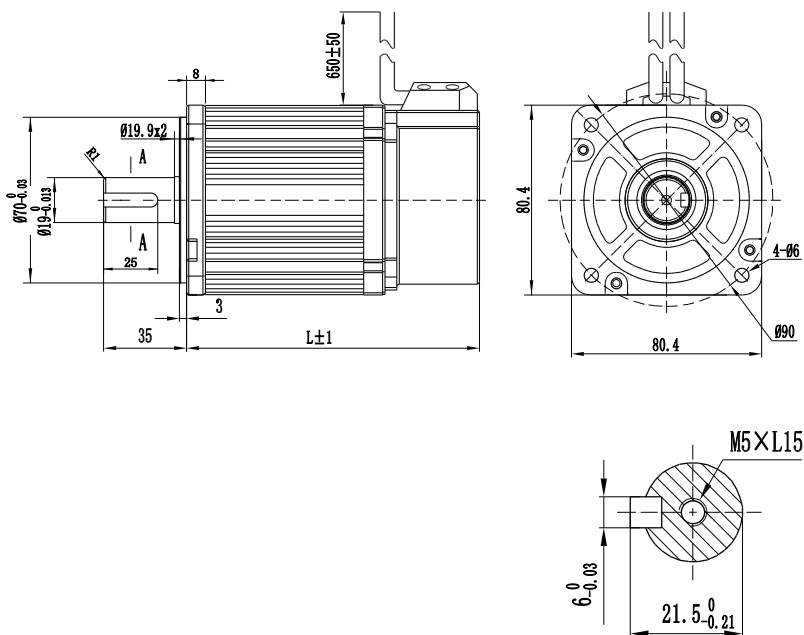
Parameter Data

60Flange

Model	L without brake (mm)	L with brake (mm)
60ST-CJ100630	116	154
60ST-CJ101330	141	179
60ST-CJ101930	169	207

80 Flange Servo Motor Dimension (Unit:mm)

Motor Drawing



Parameter Data

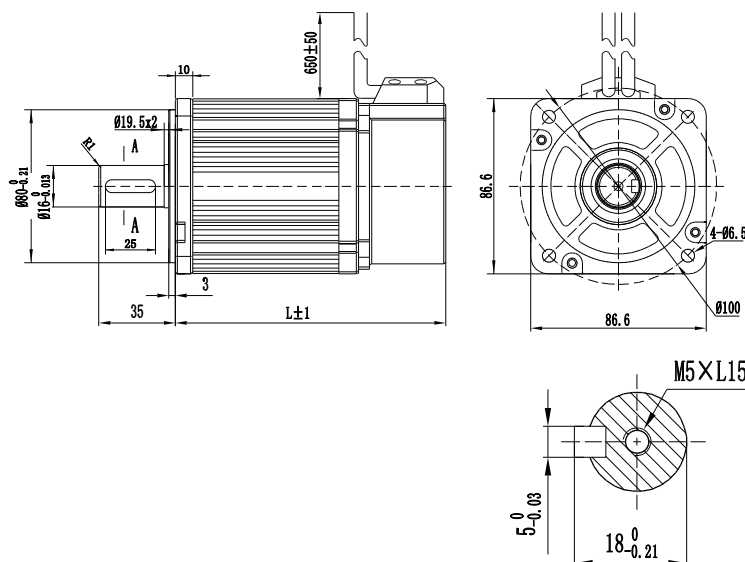
80Flange

Model	L without brake (mm)	L with brake (mm)
80ST-CJ102430	151	191
80ST-CJ103520	179	219
80ST-CJ104025	191	231

Dimension

■ 90 Flange Servo Motor Dimension (Unit:mm)

Motor Drawing



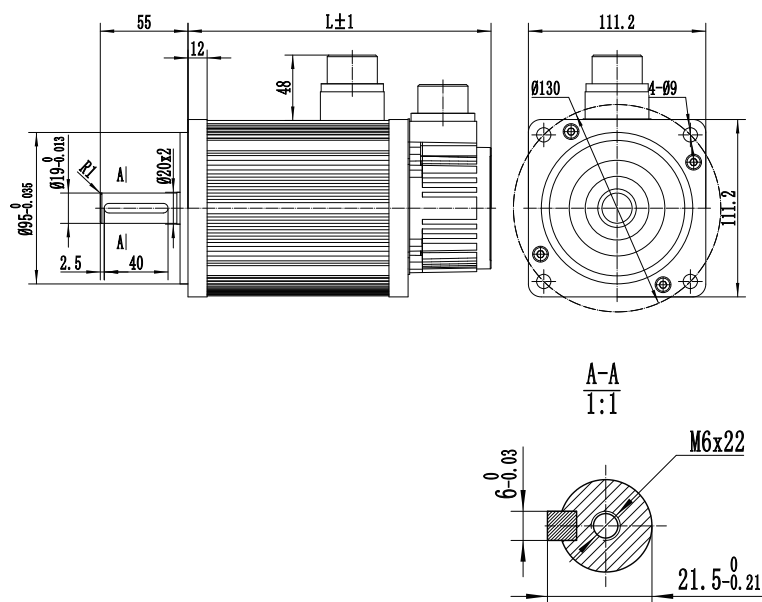
Parameter Data

90Flange

Model	L without brake (mm)	L with brake (mm)
90ST-CJ102430	150	198
90ST-CJ103520	172	220
90ST-CJ104025	182	230

■ 110 Flange Servo Motor Dimension (Unit:mm)

Motor Drawing



Parameter Data

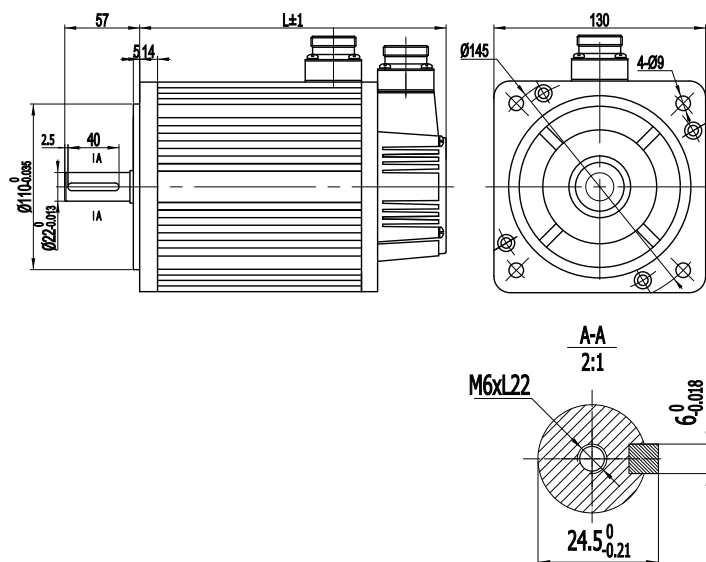
110Flange

Model	L without brake (mm)	L with brake (mm)
110ST-CJ102030	159	233
110ST-CJ104020	189	263
110ST-CJ104030	189	263
110ST-CJ105030	204	278
110ST-CJ106020	219	293
110ST-CJ106030	219	293

Dimension

■ 130 Flange Servo Motor Dimension (Unit:mm)

Motor Drawing



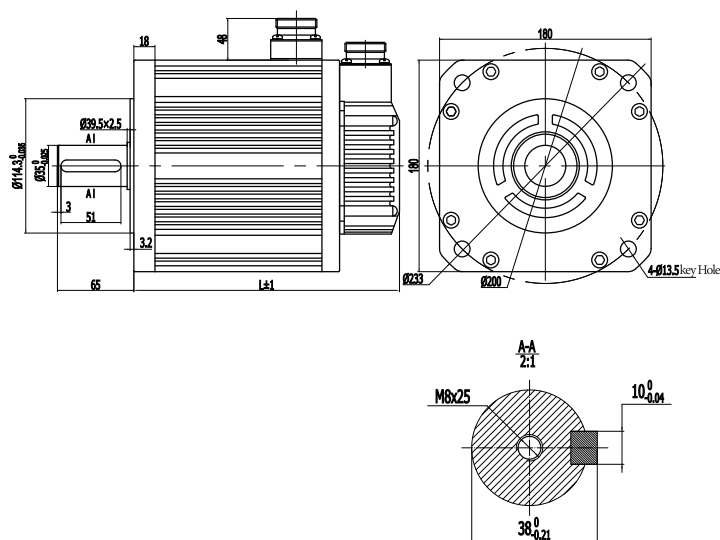
Parameter Data

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

WDM5 SERVO MOTOR FEATURE

Parameter / Unit			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	1.61
	With brake	(Kg)	—	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 Coeff. ±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	No brake	(Kg.m ² × 10 ⁻⁴)	0.023	0.046	0.20	0.3	0.528
	With brake	(Kg.m ² × 10 ⁻⁴)	0.043	0.066	0.22	0.32	0.558
Permitted Max Rot. Inertia		30 Times	30 Times	20 Times	20 Times	20 Times	20 Times
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	Incremental 17bit / Absolute 17bit						

*: 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°C.

WDM5 SERVO MOTOR

Parameter / Unit			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	(Kg)	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 Coeff.±10% **		(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 ±10% **		(mH)	6.1	6.9	7.7	5.21	5.3
Rotor Inertia	No brake	(Kg.m ² x 10 ⁻⁴)	0.9	1.6	10.5	15.5	20.5
	With brake	(Kg.m ² x 10 ⁻⁴)	0.96	1.63	12.1	17.1	22.1
Permitted Max Rot. Inertia			15 Times	15 Times	5 Times	5 Times	5Times
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 Constant **		(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 operating when the motor installed on aluminum heat sink.

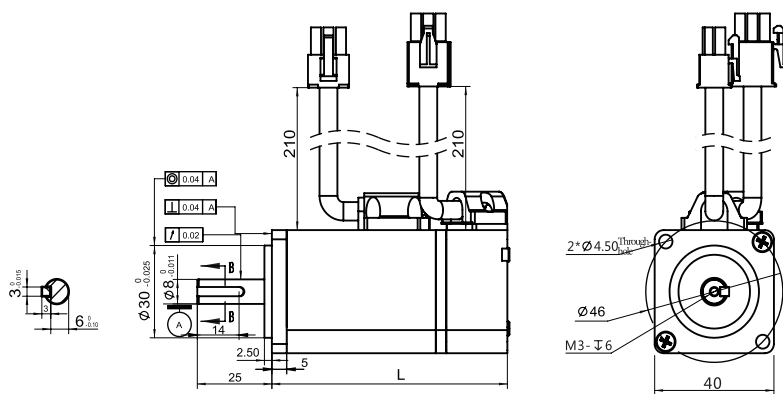
The heat sink size is 400x400x20mm.

** :The values are from winding temperature is 20°C.

Dimension

■ 40 Servo Motor Dimension (Unit:mm)

Motor Drawing



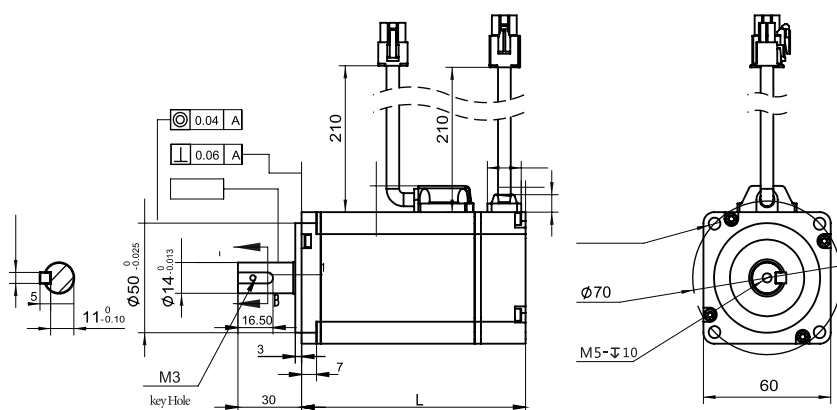
Parameter Data

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

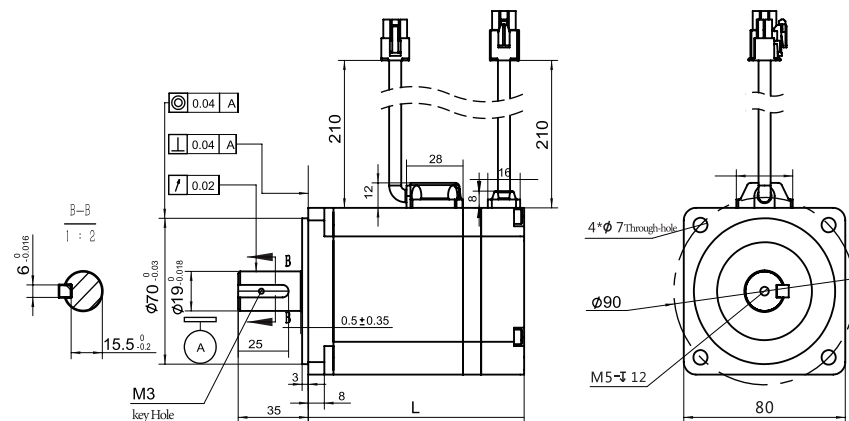
60Flange

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

Dimension

■ 80 Servo Motor Dimension (Unit: mm)

Motor Drawing



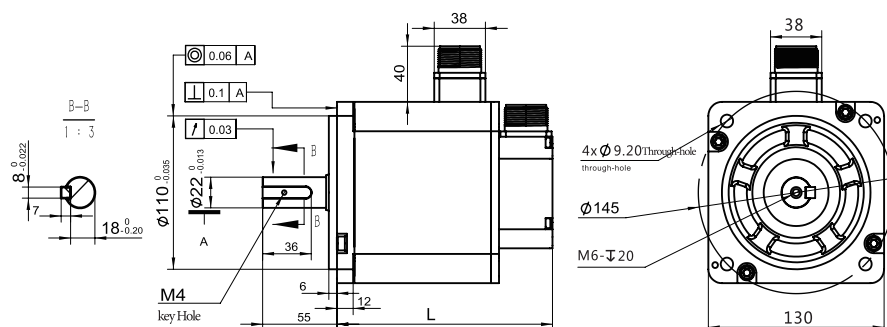
Parameter Data

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