



ADLEEPPOWER®
SINCE 1974 ISO 9001

Matchservo Motor & D310 Driver



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Intelligent Drive Controller

- The drive provides position, speed and torque for three kinds of basic modes operation.
- Digital I / O output into regulation
- Dual system control by torque and speed
- Internal drive provides 8 segments speed, two-stage acceleration and deceleration control.
- Internal drive 7 segment provides position location and a return HOME mode, eliminate the cumulative amount of error, precise, no need of PC (such as HMI, PLC) control, save costs on PC, and therefore more in line with market demand.
- Applicable to many commonly used control interfaces such as RS485, standard panel, terminal signal control, PLC And human-peer
- Drive provides 24VDC for SENSER require.
- Speed rendering and real output DC10V for external control header
- Drive signals can be output 128 RPM for external control using.
- Position tolerance on high speed, avoid over-current, over-voltage and motor blocked protection against abnormal occurs.

Innovated Matchservo Motor

- Minimize EMI and maintenance free. Low noise.
- Specialized designation to have smooth shaft rotation and improved reliability.
- Light weight and compact size, higher power density, higher torque density and higher efficiency than conventional motors.
- Wide speed range of high-efficiency operation, suitable for the load changes, speed variation operating conditions are generally advantages that conventional motors can't achieve.

D310 Servo Drive Specification

Rated Power.		W	120W	200W	400W
Drive Model No.			D310		
Motor Model No.			MB2-120L/M	MB2-200L/M	MB2-400L/M
Input Voltage		AC	220V±10% 1Ø		
Input Frequency		HZ	50/60		
Rated Output Current		A	L:0.84 / M:0.84	L:1.39 / M:1.39	L:2.60 / M:2.69
Max. Output Current		A	L:2.10 / M:2.10	L:3.40 / M:3.40	L:6.50 / M:6.70
Encoder Type and Resolution			A,B,Z,HU,HV,HW Open Collector. (A,B Phase= 128PPR)		
ACC. DEC. Time			0.1~60.0 Sec.		
Speed Regulation	Load		± 0.3% Below (0~Rated Torque at Rated Speed)		
	Voltage		± 0.3% Below (Source Voltage ± 10%at Rated Speed no Load)		
	Temperature		± 0.3% Below (-10~45°C /32~113°F at Rated Speed no Load)		
Type of Control			Sin PWM		
Mode of Control			1.Speed mode 2.Torque mode 3.Position mode		
Input Signal	Analog Panel		1.Vref, Tref ±10V Analog Input 2.Panel VR 0~5V Analog Input		
	Digital Panel		DI0~DI4 and COM common, Input Impedance 4.7KΩ to common		
Output Signal			DOx Open Collector (x=0~1), External Voltage(48VDC, 50mA below).		
Protection			Overload, Over Current, Over Voltage, Over Heat Encoder Abnormal, Short Circuit		
D310 Dimension		Fig.	D310		



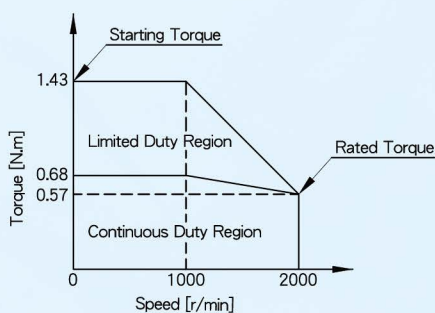
MB2 Servomotor Specification

Rated Power.	W	120W	200W	400W
Servomotor Model No.		MB2-120L/M	MB2-200L/M	MB2-400L/M
Rated Torque	N.m	L:0.57 / M:0.38	L:0.96 / M:0.64	L:1.91 / M:1.27
Max. Toqure	N.m	L:1.43 / M:0.95	L:2.40 / M:1.60	L:4.78 / M:3.18
Rated Current	A	L:0.84 / M:0.84	L:1.39 / M:1.39	L:2.60 / M:2.69
Max. Current	A	L:2.10 / M:2.10	L:3.40 / M:3.40	L:6.50 / M:6.70
Rated Speed	RPM	L:2000 / M:3000		
Torque Constant-KT	N.m/A	L:0.75 / M:0.51	L:0.73 / M:0.53	L:0.88 / M:0.58
Rotor Moment of Inertia	10 ⁻⁴ kgm ²	L:0.27 / M:0.19	L:0.33 / M:0.27	L:0.64 / M:0.64
Mechanical Time Contact	ms	L:3.62 / M:3.37	L:3.44 / M:2.50	L:2.59 / M:1.67
Electric Time Contant	ms	L:4.50 / M:3.46	L:4.12 / M:3.80	L:5.40 / M:4.79
Insulation	Class E			
IP Rating	IP40			
MB Motor Dimension	Fig.	L:1 / M:4	L:2 / M:5	L:3 / M:6

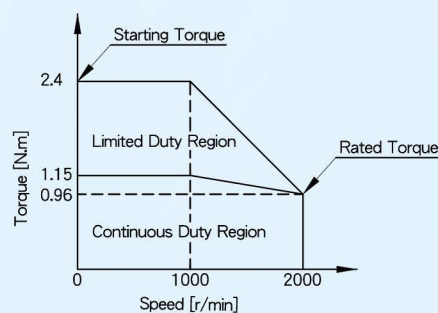


Performance Cure

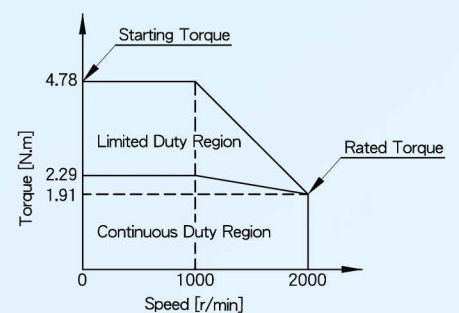
• MB2-120L



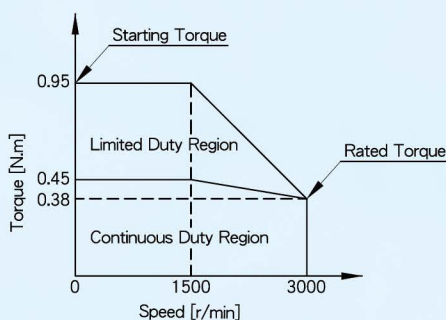
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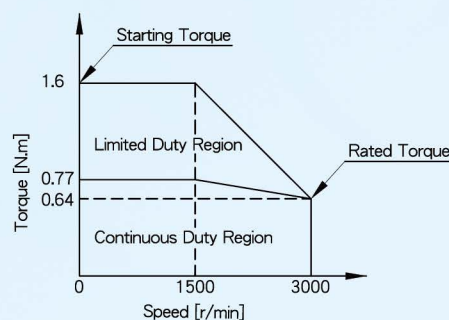
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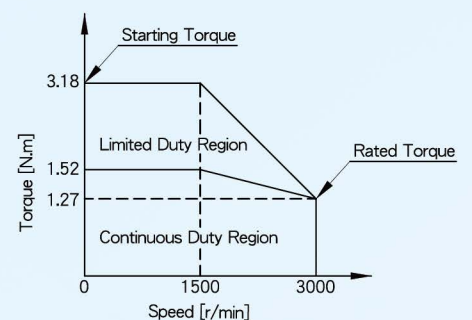
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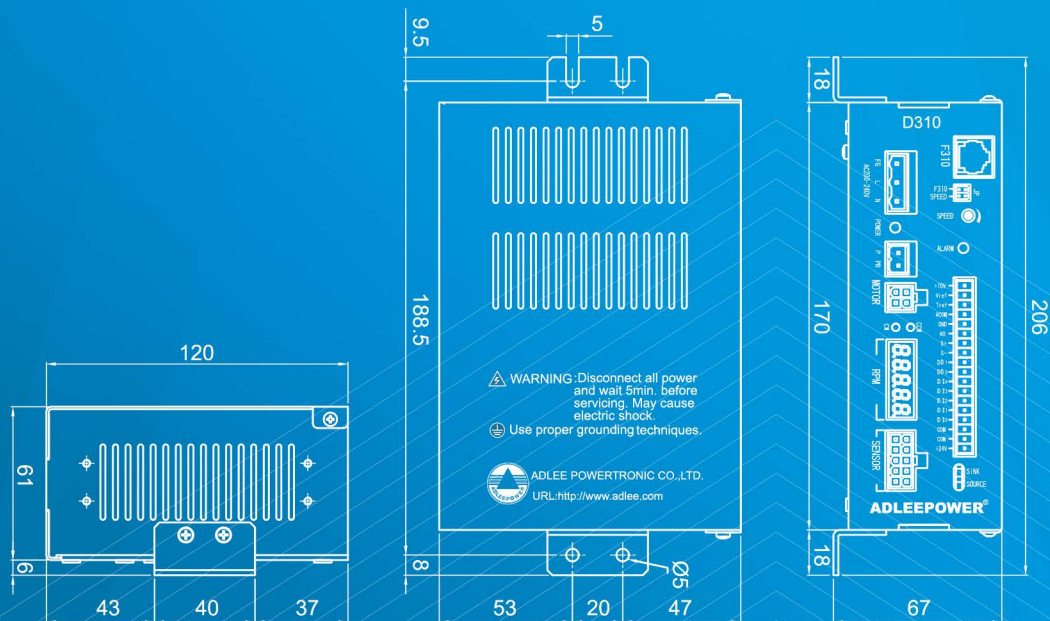
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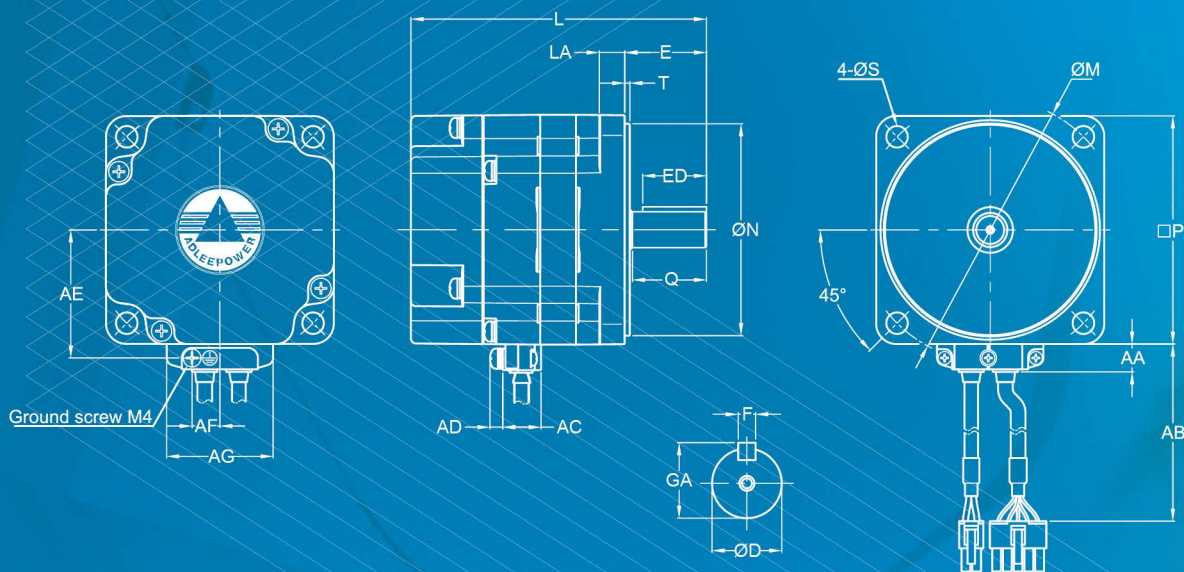
• MB2-400M



D310 Servo Drive Dimensions



MB2 Servomotor Dimensions



UNIT : mm

Fig NO.	□P	ØM	ØS	ØN	T	L	LA	AA	AB	AC	AD	AE	AF	AG	OUTPUT SHAFT END					
															ED	Q	E	ØD	GA	F
1	90	104	8.5	83	2	115.8	10	11	1000	15	5	50.5	11	42	25	29	32	12	13.5	4
2						120.7									25	29	32	14	16	5
3						139.6									25	29	32	12	13.5	4
4						110.9									25	29	32	12	13.5	4
5						115.8									25	29	32	14	16	5
6						139.6									25	29	32	14	16	5



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