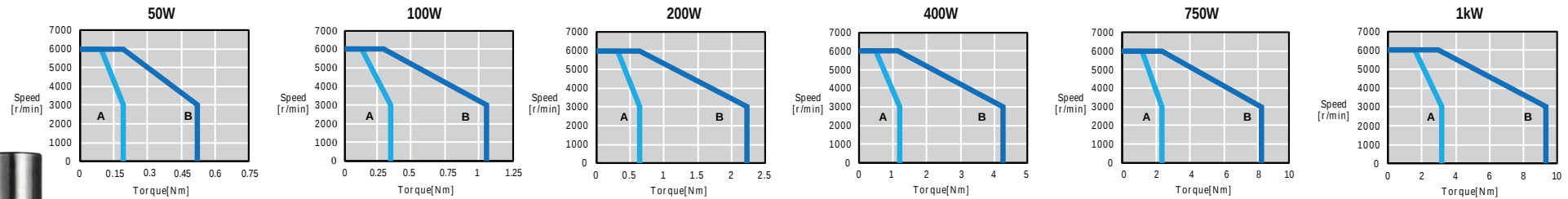


MXL Motors

Low Inertia High Speed (MXL) Servo Motors



A: Continuous Working Area B: Repeatedly Working Area

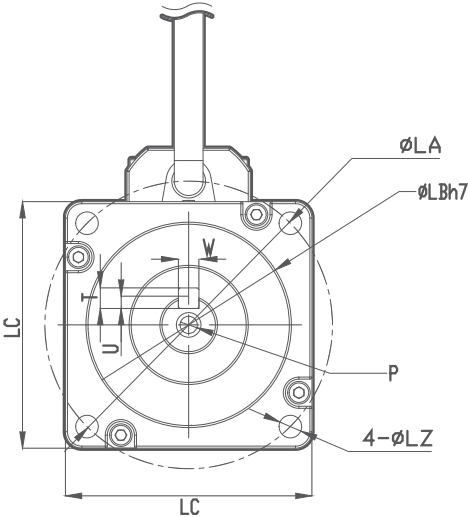
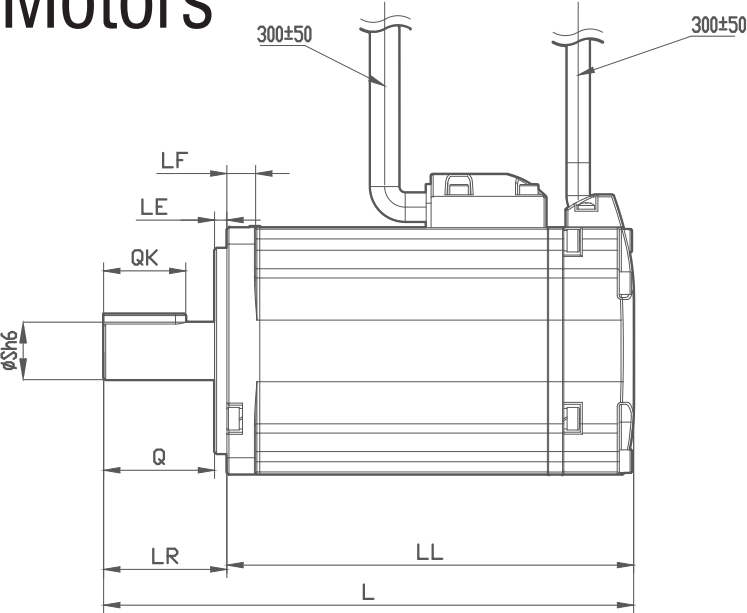


- Choose motor to match the load and dynamics, inertia, brake / no brake
- 20-bit Incremental or 23-bit Absolute high performance encoders
- IP65 rated
- Oil seal as standard
- 200V ac supply Voltage

Servo Motor Detail		50W	100W	200W	400W	750W	1kW
Rated Output	kW	0.05	0.1	0.2	0.4	0.75	1
Rated Torque	N·m	0.159	0.318	0.63	1.27	2.39	3.18
Instantaneous Peak Torque	N·m	0.557	1.11	2.21	4.45	8.37	9.55
Rated Current	Arms	0.9	1.1	1.5	2.9	5.1	6.9
Instantaneous Max current	Arms	3.3	4.0	5.8	11.5	19.5	21.0
Rated Speed	r/min	3000					
Max. Speed	r/min	6000					
Rotor Moment of Inertia	×10 ⁻⁴ kg·m ²	0.023 (0.0268)	0.0428 (0.0465)	0.147 (0.179)	0.244 (0.276)	0.909 (1.07)	1.14 (1.30)
Weight	kg	0.368 (0.588)	0.491 (0.696)	0.9 (1.3)	1.3 (1.7)	2.6 (3.2)	3.1 (3.8)
Brake Rated Voltage		DC24V±10%					
Brake Rated Power	W	4.0		7.4		9.6	
Brake Rated Torque	Nm	0.32		1.5		3.2	
Encoder		20-bit Incremental Encoder 1048576 P/R; 23-bit Absolute Encoder 8388608P/R					
Insulation Class		F					
Ambient Temperature		0 ~ +40°C (No freezing)					
Ambient Humidity		20%~80% RH (No condensing)					
Vibration		Vibration: Dynamic ≤49m/s ² 5G; Static ≤24.5m/s ² ; Shock:≤98m/s ² (10G)					
Enclosure		Totally Enclosed, Self-cooled, IP65					

Note: The data inside parenthesis represents the values with brake.

MXL
Motors



POWER	MXL-	L	LL	Flange Side							S	Threaded hole x Depth	Key				
				LR	LE	LF	LC	LA	LB	LZ			QK	W	T	U	Q
50W	A5A0430L	87.5 (121)	62.5 (96)	25	2.5	5	40	46	30	4.3	8	M3X6	14	3	3	1.8	22.5
100W	01A0430L	103.5 (137)	78.5 (112)	25	2.5	5	40	46	30	4.3	8	M3X6	14	3	3	1.8	22.5
200W	02A0630L	108 (137)	78 (107)	30	3	7	60	70	50	5.5	14	M5X12	20	5	5	3	27
400W	04A0630L	129 (158)	99 (128)	30	3	7	60	70	50	5.5	14	M5X12	20	5	5	3	27
750W	08A0830L	141 (184)	111 (144)	40	3	8	80	90	70	6.6	19	M6X12	25	6	6	3.5	37
1kW	10A0830L	155 (198)	125 (158)	40	3	8	80	90	70	6.6	19	M6X12	25	6	6	3.5	37
200W	02A0630F	126.5 (155.5)	96.5 (125.5)	30	3	7	60	70	50	5.5	14	M5X12	20	5	5	3	27
400W	04A0630F	147.5 (176.5)	117.5 (146.5)	30	3	7	60	70	50	5.5	14	M5X12	20	5	5	3	27
750W	08A0830F	169.5 (202.5)	129.5 (162.5)	40	3	8	80	90	70	6.6	19	M6X12	25	6	6	3.5	37
1kW	10A0830F	183.5 (216.5)	143.5 (176.5)	40	3	8	80	90	70	6.6	19	M6X12	25	6	6	3.5	37

Note: Numbers inside parentheses represents the values with brake.

MXL	-	Rated Power	Supply Voltage	Flange	Rated Speed	Encoder	Revision	Shaft End	Option Parts	Connector Type
A5	50W	A	200VAC	04 40mm	30 3000 RPM	F 20-bit inc	A -	2 With key	2 With oil seal	2 Water proof
01	100W			06 60mm		L 23-bit abs			4 With oil seal	
02	200W			08 80mm					With brake	
04	400W									
08	750W									
10	1kW									