

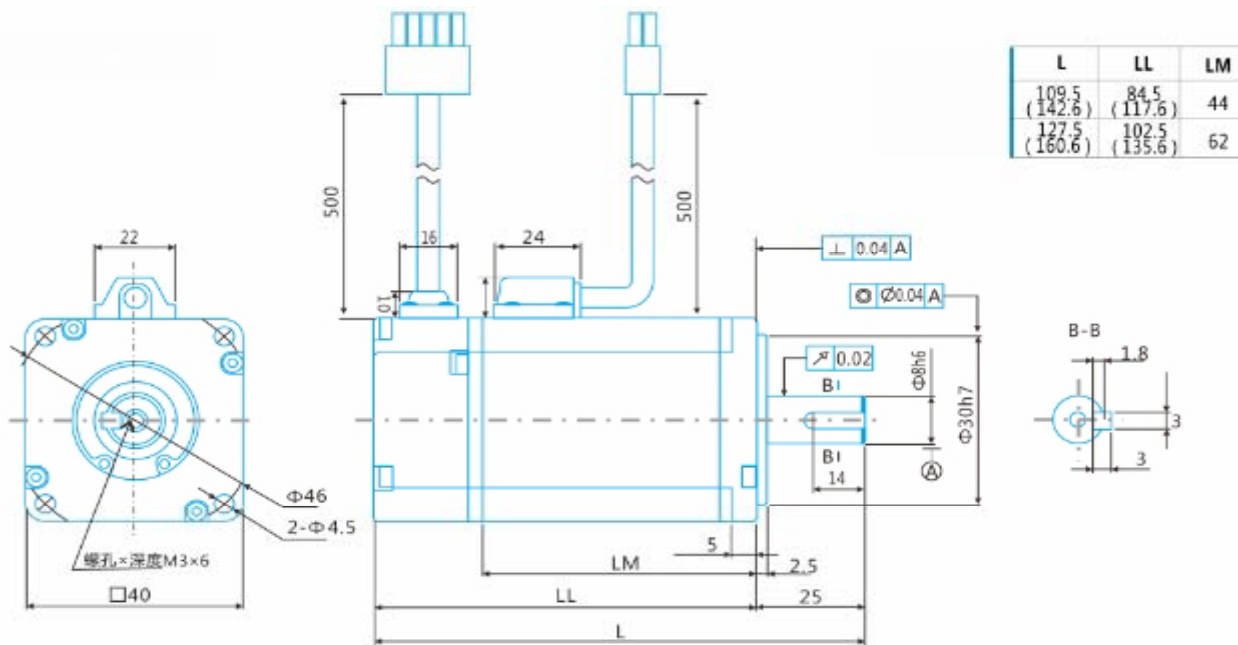
AC Servo Motors size: 40mm power:50W-100W

Long Life and Highly Reliable
 Compact Size with High Power Density
 Size: 40mm
 Feedback device :2500p/rev incremental encoder
 Motor can customize orintegrated driver
 Different winding and mechanical modification
 IP65
 Rated voltage 320VDC and 220VAC



BYSM40

Dimensions



General Feature

Insulation Class	Class B (130°C)																	
Safety Grade	IP64																	
Operating Environment	Temperature: -20°C ~ +50°C Humidity: under<90% (No Dewing)																	
Storage Environment	Temperature: -30°C ~ +60°C Humidity: under<90% (No Dewing)																	
Winding Connector	Winding Wires			U			V			W			PE					
	Pin No.			1			2			3			4					
Encoder Connector	Signal Wires			5V	0V	B+	Z-	U+	Z+	U-	A+	V+	W+	V-	A-	B-	W-	PE
	Pin No.			2	3	4	5	6	7	8	9	10	11	12	13	14	15	1

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AC Servo Motors size: 40mm power:50W-100W

Motor Type	BYSM40—530	BYSM40—1030
Rated power Pn (W)	50	100
Rated torque Tn (Nm)	0.16	0.32
Rated speed nn(rpm)	3000	3000
Rated current In(A)	0.7	1.2
DC Link Voltage UDC(V)	320	320
Maximum torque Tm(Nm)	0.48	0.96
Maximum current Im(A)	2.1	3.6
Standstill torque Ts(Nm)	0.176	0.352
Standstill current Is(A)	0.77	1.32
Voltage constant Ke (V/krpm)	16	16
Torque constant Kt (Nm/A)	0.265	0.265
Resistance line-line RL (Ω)	16.6	5.53
Inductance line-line LL (m H)	14	6
Electrical time constant τ_e (ms)	0.84	1.08
Mechanical time constant τ_m (ms)	1.28	0.86
Rotor moment of inertia Jm (kgcm ²)	0.031	0.059
Pole number	8	8
Max. voltage rising du/dt (kV/μs)	8	8
Insulation class	F	F
Max. radial force Fr (N)	120	120
Max. axial force Fa (N)	60	60
Weight (Kg)	0.5	0.73
Feedback device	2500p/rev incremental encoder	
Temperature sensor	n.a.	
Cooling method	Totally enclosed non-ventilated	
Protection level	IP64	
Environmental conditions	Temperature	-20℃~40℃
	Humidity	Below 90%RH (No dewing)
	Environment	Far away active gas, combustible gas, oil drop, ash.
	Installation altitude	Up to 1000m: rated power Above 1000m: 1.5% power Decreasing per 100m,max.4000m
Rating conditions	Mounting	Aluminum flange 175*200*10mm
	Temperature	60K housing temperature ring at 40℃ ambient