

PLSM40 ULTRA-MINI DC SERVO MOTOR



Maximum Speed

4000/6000rpm

Rated Torque

0.16/0.32N.m

IP Grade

IP54/IP65

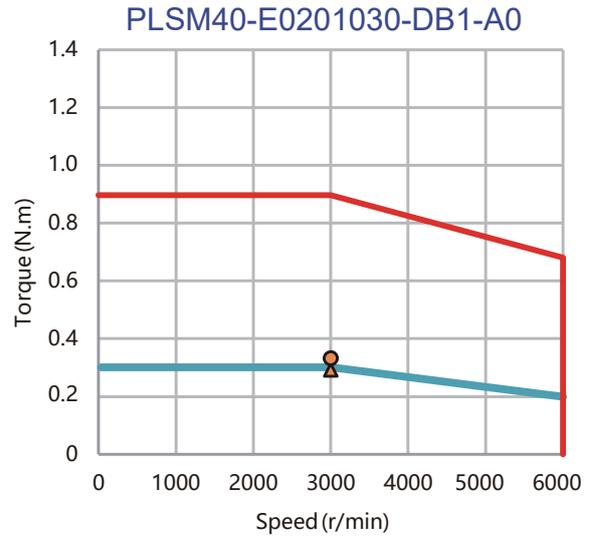
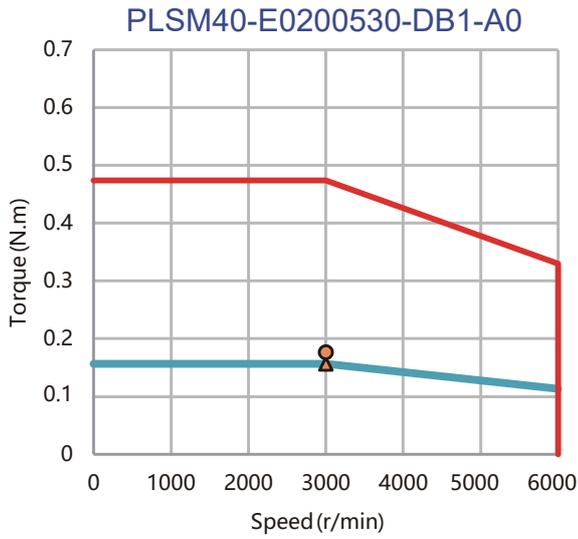
Rated Power

50/100W

Electrical Specifications

Model	PLSM40-E0200530-DB1-A0								PLSM40-E0201030-DB1-A0								
Rated Power(W)	50								100								
Rated Voltage(V)	DC24								DC24								
Rated Current(A)	3.2								5.5								
Rated Torque(N.m)	0.16								0.32								
Rated Speed(r/min)	3000								3000								
Peak Current(A)	9.6								16.5								
Peak Torque(N.m)	0.48								0.96								
Peak Speed(r/min)	4000/6000								4000/6000								
Voltage Constant(V/1000r/min)	3.02								3.20								
Torque Coefficient(N.m/A)	0.05								0.06								
Line-line Resistance(Ω)	1.28								0.82								
Line-line Inductance(mH)	1.03								0.52								
Rotor Inertia($\text{kg.m}^2 \times 10^{-4}$)	0.035								0.069								
Number of Pole Pairs	5																
Encoder Resolution	2500CPR/ Single-turn absolute value 17 bits/ Multi-turn absolute value 17 bits																
Insulation Class	Class F																
Protection Class	IP54/IP65																
Environment	Ambient Temperature:-20-50°C /Ambient Humidity~90%(No Frosting Condition)																
Winding Socket	Winding Wire	U				V				W				PE			
	Socket Number	1				2				3				4			
Encoder Socket (Absolute Type)	Signal Pin Definition	PE		5V		0V		SD+		SD-		VB+		VB-			
	Male Pin Number	1		2		3		4		5		6		7			
Encoder Socket (Incremental Type)	Signal Pin Definition	GND	Vcc	W+	V+	U+	Z+	B+	A+	/	/	/	/	Z-	B-	A-	
	Male Pin Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

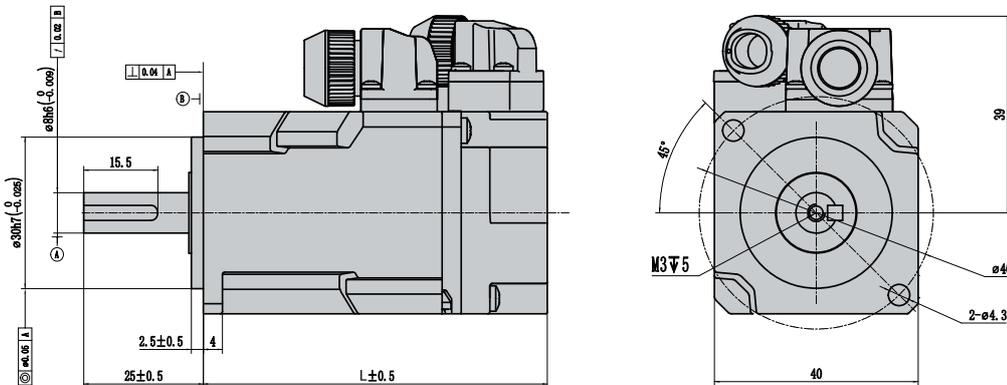
Characteristic Curve



Dimensions

Motor Length	50W	100W
L Without Brake (mm)	57.5	72
L With Brake (mm)	88.5	103

• Without Brake



• With Brake

