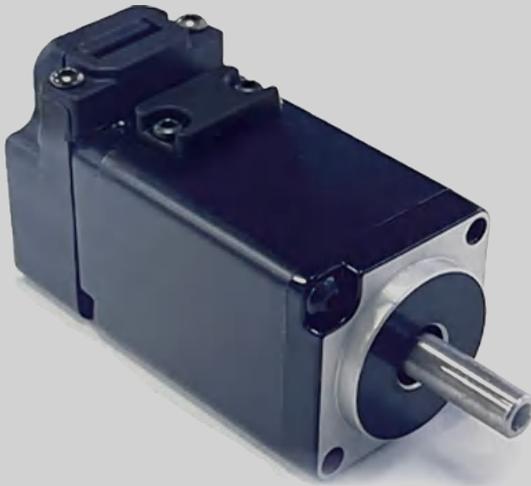


# PLSM25 ULTRA-MINI DC SERVO MOTOR



## Maximum Speed

4000/6000rpm

## Rated Torque

0.105/0.159N.m

## IP Grade

IP50

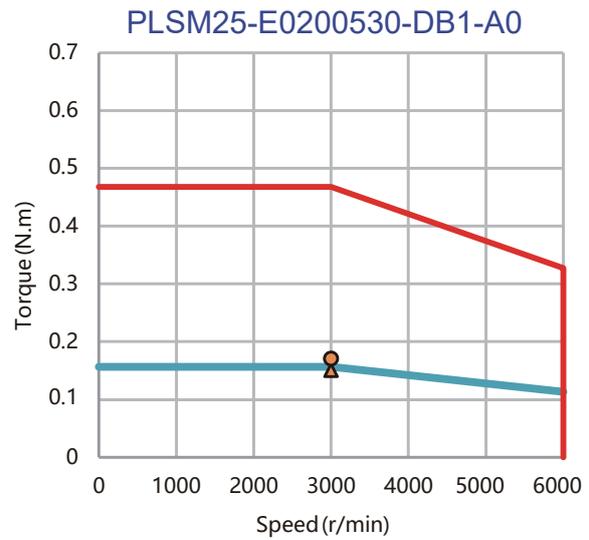
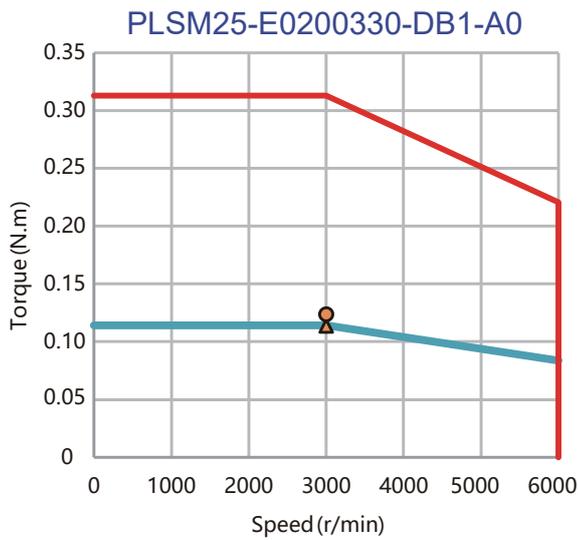
## Rated Power

33/50W

## Electrical Specifications

Model	PLSM25-E0200330-DB1-A0								PLSM25-E0200530-DB1-A0								
Rated Power(W)	33								50								
Rated Voltage(V)	DC24								DC24								
Rated Current(A)	2								2								
Rated Torque(N.m)	0.105								0.159								
Rated Speed(r/min)	3000								3000								
Peak Current(A)	6								6								
Peak Torque(N.m)	0.315								0.478								
Peak Speed(r/min)	4000/6000								4000/6000								
Voltage Constant(V/1000r/min)	3.4								3.7								
Torque Coefficient(N.m/A)	0.0525								0.0796								
Line-line Resistance( $\Omega$ )	3.4								1.95								
Line-line Inductance(mH)	0.83								0.48								
Rotor Inertia( $\text{kg.m}^2 \times 10^{-4}$ )	6.7								11.7								
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	IP50																
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	

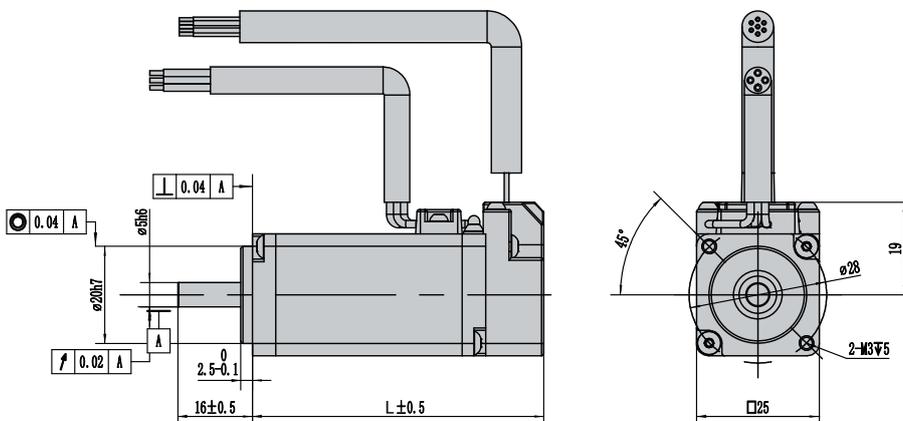
## Characteristic Curve



## Dimensions

Motor Length	33W	50W
L Without Brake (mm)	73.5	90.5
L With Brake (mm)	97	114

### • Without Brake



### • With Brake

