PLSP40 DC Servo Motor
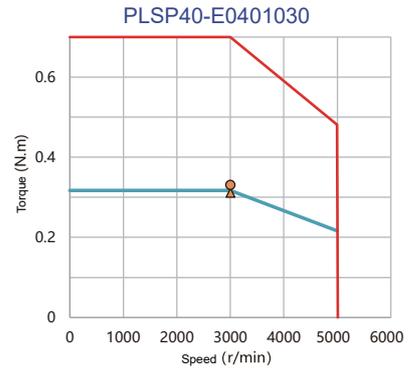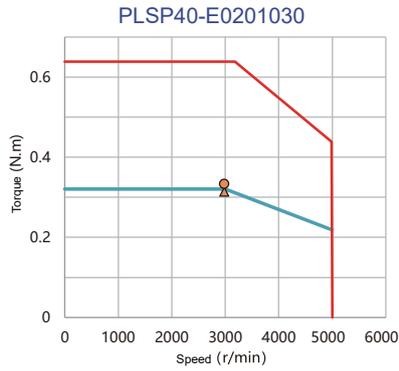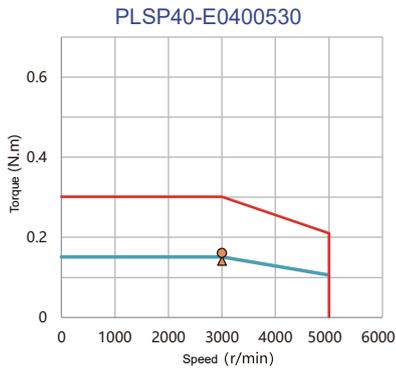

Specifications

Model	PLSP40-E0400530	PLSP40-E0201030	PLSP40-E0401030
Rated Voltage(V)	48	24	48
Rated Power(W)	50	100	100
Rated Torque(N.m)	0.15	0.32	0.32
Maximum Torque(N.m)	0.30	0.64	0.70
Rated Speed(r/min)	3000	3000	3000
Peak Speed (Rpm)	5000	5000	5000
Rated Current (A)	1.5	7.5	3.5
Rotor Inertia (Kg.m²×10⁻⁴)	0.021	0.035	0.035
Torque Coefficient(N.m/A)	0.1	0.04	0.09
Electrical Time Constant (MS)	1.11	4.59	4.3
Line Resistance (Ω)	6.75	0.32	0.95
Line Inductance (MH)	7.5	1.47	4.1
Line Back EMF Constant (V/krpm)	9.2	3.2	6.3
Weight(kg)	0.4	0.5	0.5
Number of Pole Pairs	4 (5 Pairs Of Poles Are Optional)		
Encoder Resolution (CPR)	2500CPR(Absolute encoder available)		
Insulation Class	Class F		
Protection Class	IP65 (IP67 Optional)		
Environment	Ambient Temperature:-20-50℃/Ambient Humidity~90%(No Frosting Condition)		

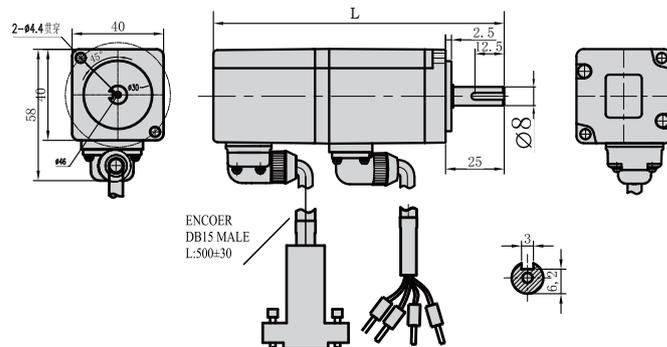| Winding Socket	Winding Wire	U		V		W		PE							
	Socket Number	1		2		3		4							
Encoder Socket (Absolute Type)	Signal Pin Definition	PE	5V	0V	SD+	SD-	VB+	VB-							
	Male Pin Number	1	2	3	4	5	6	7							
Encoder Socket (Incremental Type)	Signal Pin Definition	Shield	5V	0V	B+	Z-	U+	Z+	U-	A+	V+	W+	V-	A-	B-	W-
	Male Pin Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Characteristic Curve

PLSP40-E0400530

PLSP40-E0201030

PLSP40-E0401030

Dimensions

Motor Length	50W	100W
L Without Brake (mm)	109	124
L With Brake (mm)	124	161

Without Brake

ENCOER
DB15 MALE
L:500±30

With Brake

ENCOER
DB15 MALE
L:500±30

L:500±30