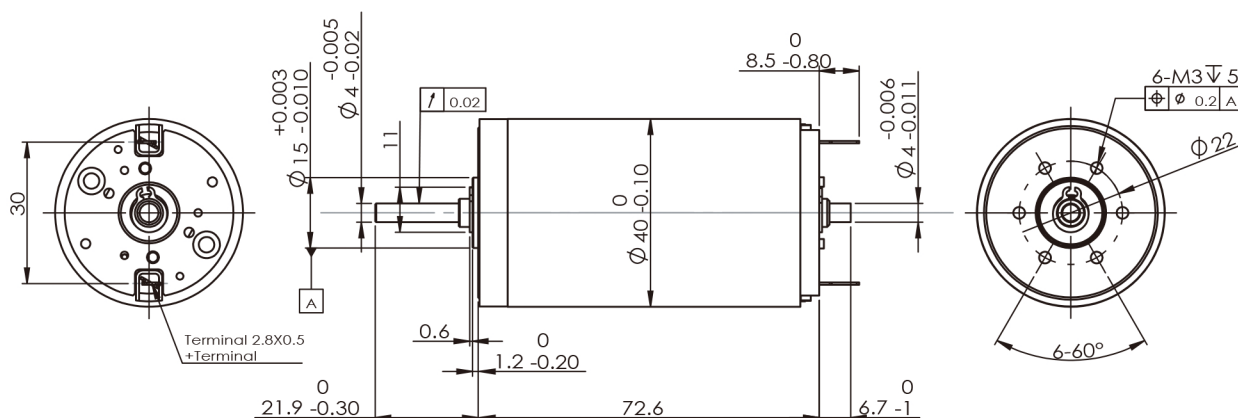




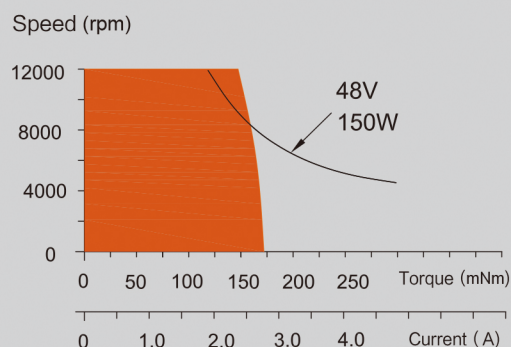
Motor Data

电机型号	Motor model			DR407124GK	DR407148GK-01	DR407148GK-02		
1 额定电压	Nominal voltage	V	V	24	48	48		
2 空载转速	No load speed	rpm	WnI	7600	7960	6500		
3 空载电流	No load current	mA	InI	250	141	174		
4 额定转速	Nominal speed	rpm	Wc	7000	7000	5400		
5 额定转矩	Nominal torque	mNm	Tc	180	187	186		
6 额定电流	Nominal current	A	Ic	6.06	3.26	2.67		
7 输出功率	Output power	W	Pc	131	137	106		
8 堵转转矩	Stall torque	mNm	Tmax	2037	1246	1087		
9 堵转电流	Stall current	A	Imax	68.6	21.7	15.6		
10 最大效率	Max. efficiency	%	η_{max}	80	88	83		
11 线间电阻	Terminal resistance	Ω	Rt	0.35	1.7	3.08		
12 力矩系数	Torque constant	mNm / A	Kt	29.7	57.4	69.73		
13 速度常数	Speed constant	rpm / V	Kn	321	166	137		
14 速度扭矩比	Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	3.3	5.1	5.7		
15 线间电感	Terminal inductance	mH	L	0.18	0.496	0.84		
16 转子转动惯量	Rotor inertia	gcm ²	J	142.6	137.8	129		

Specifications

1 ambient temperature	Ta	-30~+100℃
2 Max.winding temperature	Tcoilmax	+155℃
3 Max.speed	Nmax	12000rpm
4 axial play	Δt	0.05~0.15mm
5 number of pole pairs	p	1
6 number of commutator segments		13
7 weight of motor	Wt	480 g
8 Max.axial load(dynamic)		5.6N
9 Max.force for press fits(static)		110N
10 Max.radial load,4mm from flange		28N

Operating Range



SMJ Modular System

Planetary Gearhead	Encoder HEDS_5540
Type P42H	500 CPT
Diameter $\phi 42$	3 channels
Torque 0.578~15N·m	see page 34
See page 40	