

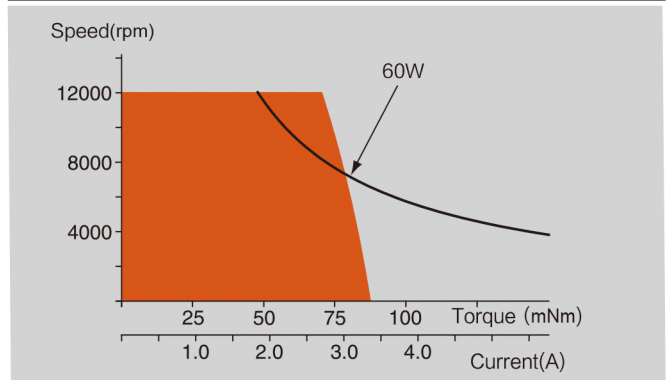
Motor Data

电机型号	Motor model			DR306812G	DR306818G	DR306824G	DR306848G
1 额定电压	Nominal voltage	V	V	12	18	24	48
2 空载转速	No load speed	rpm	Wnl	7900	8270	8380	8490
3 空载电流	No load current	mA	InI	350	260	150	100
4 额定转速	Nominal speed	rpm	Wc	7470	7560	7600	7690
5 额定转矩	Nominal torque	mNm	Tc	51.6	75.5	85.6	89.7
6 额定电流	Nominal current	A	Ic	3.58	3.67	3.15	1.66
7 输出功率	Output power	W	Pc	40	60	68	72
8 堵转扭矩	Stall torque	mNm	Tmax	865.2	805	669	918.9
9 堵转电流	Stall current	A	Imax	60	39.1	24.6	17.08
10 最大效率	Max. efficiency	%	ηmax	90	86	90	88
11 线间电阻	Terminal resistance	Ω	Rt	0.2	0.46	0.71	2.81
12 力矩系数	Torque constant	mNm / A	Kt	14.4	20.6	27.2	53.8
13 速度常数	Speed constant	rpm / V	Kn	663	463	349	177.5
14 速度扭矩比	Speed torque gradient	rpm / mNm	Δn / ΔT	8.3	9.4	9.1	8.9
15 线间电感	Terminal inductance	mH	L	0.036	0.039	0.138	0.588
16 转子转动惯量	Rotor inertia	gcm ²	J	34.4	36.1	34.2	35.2

Specifications

- | | | |
|------------------------------------|----------|-------------|
| 1 ambient temperature | Ta | -30~+100°C |
| 2 Max.winding temperature | Tcoilmax | +125°C |
| 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 | 260 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 P32H	500 CPT
Diameter φ32	3 channels
Torque 0.16~6N·m	see page 34
See page 38	