

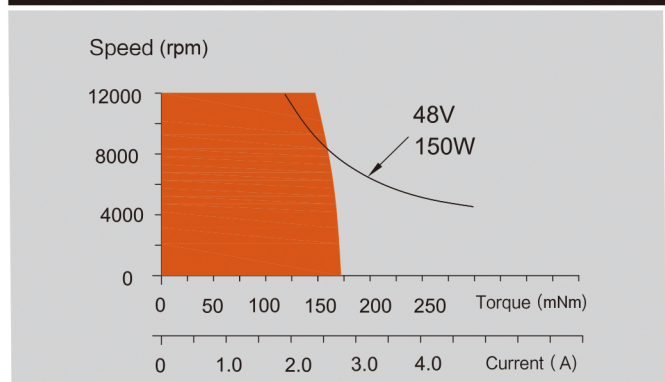
Motor Data

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	Wnl	7600	7960	6500
3 空载电流	No load current	mA	InI	230	110	70
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	2.65
7 输出功率	Output power	W	Pc	131	137	105
8 堵转转矩	Stall torque	mNm	Tmax	2037	1246	1094
9 堵转电流	Stall current	A	Imax	68.6	21.7	12.3
10 最大效率	Max. efficiency	%	η_{max}	91	88	84
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	70.2
13 速度常数	Speed constant	rpm / V	Kn	321	166	136
14 速度转矩比	Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	3.3	5.1	5.8
15 线间电感	Terminal inductance	mH	L	0.096	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 T_a -30~+100°C
- 2 Max.winding temperature $T_{coilmax}$ +155°C
- 3 Max.speed N_{max} 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 W_t 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

Diagram of the SMJ Modular System components:

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

MINDONG MECHANISM 32