

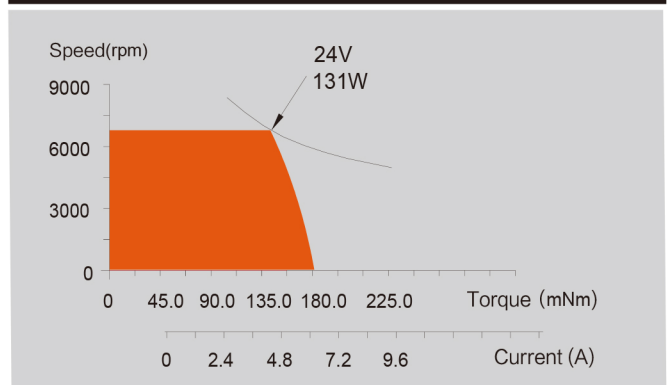
Motor Data

	Motor model			DR407124GK			
1	Nominal voltage	V	V	24			
2	No load speed	rpm	Wnl	7600			
3	No load current	mA	InI	250			
4	Nominal speed	rpm	Wc	6200			
5	Nominal torque	mNm	Tc	180			
6	Nominal current	A	Ic	6.06			
7	Output power	W	Pc	117			
8	Stall torque	mNm	Tmax	957.4			
9	Stall current	A	Imax	32			
10	Max. efficiency	%	η_{max}	81			
11	Terminal resistance	Ω	Rt	0.35			
12	Torque constant	mNm / A	Kt	29.9			
13	Speed constant	rpm / V	Kn	319.16			
14	Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	7.7			
15	Terminal inductance	mH	L	0.18			
16	Rotor inertia	gcm ²	J	142.6			

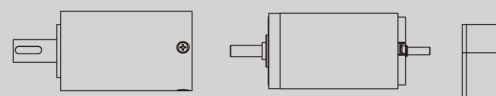
Specifications

1	ambient temperature	Ta	-20~+65 °C
2	max. winding temperature	Tcoilmax	+155 °C
3	max. speed	Nmax	8800 rpm
4	axial play	Δt	0.05-0.15 mm
5	number of pole pairs	2p	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, 4 mm from flange		28N

Operating Range



SMJ Modular System



Planetary Gearhead
 Model number P42H
 Outside Diameter $\phi 42$
 Torque 0.578~15N·m
 See page 52

Encoder
 1000 CPT
 3 Channels
 see page 46