

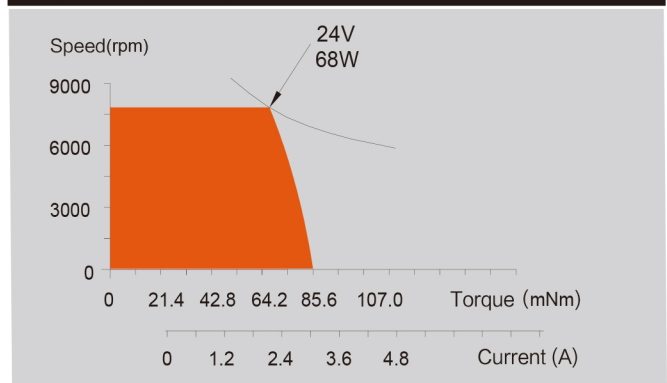
Motor Data

	Motor model			DR306812G	DR306824G	DR306836G	DR306848G
1	Nominal voltage	V	V	12	24	36	48
2	No load speed	rpm	Wnl	7900	8380	8500	8490
3	No load current	mA	InI	350	170	150	100
4	Nominal speed	rpm	Wc	7470	7600	7500	7690
5	Nominal torque	mNm	Tc	51.6	85.6	86.6	89.7
6	Nominal current	A	Ic	3.58	3.15	2.17	1.66
7	Output power	W	Pc	40	68	69	72
8	Stall torque	mNm	Tmax	865.2	669	781	918.9
9	Stall current	A	Imax	60	24.6	19.6	17.08
10	Max. efficiency	%	ηmax	90	80	85	88
11	Terminal resistance	Ω	Rt	0.2	0.71	1.84	2.81
12	Torque constant	mNm / A	Kt	14.4	27.2	39.9	53.8
13	Speed constant	rpm / V	Kn	663	349	239	177.5
14	Speed torque gradient	rpm / mNm	Δn / ΔT	8.3	9.1	11	8.9
15	Terminal inductance	mH	L	0.036	0.23	0.48	0.588
16	Rotor inertia	gcm ²	J	34.4	34.2	34.2	35.2

Specifications

1	ambient temperature	Ta	-20~+65 °C
2	max. winding temperature	Tcoilmax	+125 °C
3	max. speed	Nmax	9350 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	260 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 P32H
 Outside Diameter φ32
 Torque 0.16~6N·m
 See page 50

Encoder
 1000 CPT
 3 Channels
 see page 46
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