

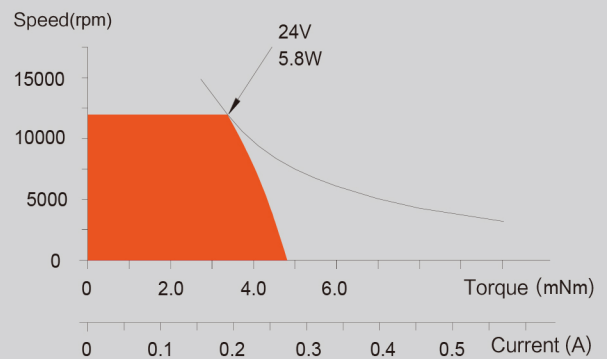
Motor Data

	Motor model			DR164106B	DR164112B	DR164118B	DR164124B	DR164136B	DR164148B
1	Nominal voltage	V	V	6	12	18	24	36	48
2	No load speed	rpm	Wnl	14500	13900	13200	14500	14100	14000
3	No load current	mA	lnl	56	26	36	20	14	12
4	Nominal speed	rpm	Wc	12800	11700	11500	12620	12200	12100
5	Nominal torque	mNm	Tc	2.6	3.9	4.3	4.4	4.3	4.4
6	Nominal current	A	lc	0.66	0.47	0.34	0.28	0.18	0.13
7	Output power	W	Pc	3.5	4.8	5.2	5.8	5.5	5.6
8	Stall torque	mNm	Tmax	21.3	28.3	31.2	31.83	36.3	37.3
9	Stall current	A	lmax	5.45	3.43	2.43	2.03	1.49	1.14
10	Max. efficiency	%	$\eta_{max}$	87.2	84.2	86	86	86.5	86.4
11	Terminal resistance	$\Omega$	Rt	1.1	3.5	7.4	11.8	24.2	42.1
12	Torque constant	mNm / A	Kt	3.91	8.24	12.83	15.65	24.38	32.74
13	Speed constant	rpm / V	Kn	2442	1174	744	610	397	296
14	Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	628.9	492	383	427	389	375
15	Terminal inductance	mH	L	0.034	0.544	0.304	0.63	0.986	1.69
16	Rotor inertia	gcm <sup>2</sup>	J	1.37	1.33	1.28	1.26	1.24	1.2

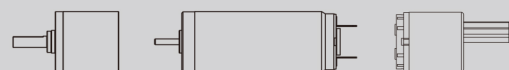
Specifications

1	ambient temperature	Ta	-20~+65 °C
2	max. winding temperature	Tcoilmax	+125 °C
3	max. speed	Nmax	15950 rpm
4	axial play	$\Delta t$	0.05-0.15 mm
5	number of pole pairs	2p	1
6	number of commutator segments		5
7	weight of motor	Wt	40 g
8	Max. axial load (dynamic)		0.8N
9	Max. force for press fits (static)		15N
10	Max. radial load, 4 mm from flange		1.5N

Operating Range



SMJ Modular System



Planetary Gearhead	Encoder
Model number P16H	1000 CPT
Outside Diameter $\phi 16$	3 Channels
Torque 0.01~0.4N·m	see page 45
See page 48	