

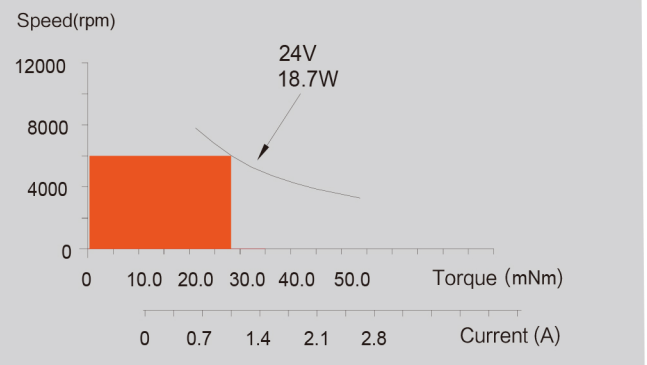
Motor Data

	Motor model		DR234709B	DR234712B	DR234724B-01	DR234724B-02	DR234736B	DR234748B
1	Nominal voltage	V	9	12	24	24	36	48
2	No load speed	rpm	7370	11500	7570	11000	11500	11000
3	No load current	mA	<40	<80	<18	<40	<20	<15
4	Nominal speed	rpm	6160	10000	6350	9860	10000	9528
5	Nominal torque	mNm	17	20.5	28.1	26.7	25	25
6	Nominal current	A	1.46	2.06	0.93	1.29	0.83	0.6
7	Output power	W	11	22.2	18.7	27.5	26.2	25
8	Stall torque	mNm	101	195	126.8	243.1	190	183
9	Stall current	A	8.74	19.7	4.2	11.7	6.4	4.4
10	Max. efficiency	%	83	80	80	80	86	86
11	Terminal resistance	$\Omega$	1.03	0.61	5.7	2.05	5.65	10.88
12	Torque constant	mNm / A	11.6	9.9	30.2	20.7	29.8	41.5
13	Speed constant	rpm / V	823	962	315	460	320	230
14	Speed torque gradient	rpm / mNm	71.2	57	43.4	44	59	59
15	Terminal inductance	mH	0.11	0.25	0.45	1.07	2.6	4.4
16	Rotor inertia	gcm <sup>2</sup>	9.7	9.4	9.4	9.4	9.4	9.4

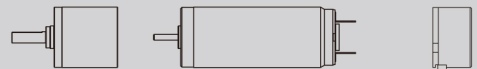
Specifications

1	ambient temperature	Ta	-20~+65 °C
2	max. winding temperature	Tcoilmax	+125 °C
3	max. speed	Nmax	12650 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	95 g
8	Max. axial load (dynamic)		3N
9	Max. force for press fits (static)		45N
10	Max. radial load, 4 mm from flange		12N

Operating Range



SMJ Modular System



Planetary Gearhead  
 Model number P22H  
 Outside Diameter  $\phi 22$   
 Torque 0.021~1.2N·m  
 See page 49

Encoder  
 1000 CPT  
 3 Channels  
 see page 46