

	电机型号	Motor model			BR407124B	BR407148B		
1	额定电压	Nominal voltage	V	V	24	48		
2	空载转速	No load speed	rpm	Wnl	11100	10600		
3	空载电流	No load current	mA	InI	350	150		
4	额定转速	Nominal speed	rpm	Wc	10290	9800		
5	额定转矩	Nominal torque	mNm	Tc	140	170		
6	额定电流	Nominal current	A	Ic	6.74	3.94		
7	输出功率	Output power	W	Pc	150	175.4		
8	堵转扭矩	Stall torque	mNm	Tmax	2076.2	2325.7		
9	堵转电流	Stall current	A	Imax	100	53.93		
10	最大效率	Max. efficiency	%	ηmax	93.3	93		
11	线间电阻	Terminal resistance	Ω	Rt	0.24	0.89		
12	线圈电感	Terminal inductance	L	mH	0.3	0.5		
13	力矩系数	Torque constant	mNm / A	Kt	20.76	43.12		
14	速度常数	Speed constant	rpm / V	Kn	460	221.4		
15	速度扭矩比	Speed torque gradient	rpm / mNm	Δn / ΔT	5.04	4.4		

1	ambient temperature	Ta	-20~+65°C
2	Max.winding temperature	Tcoilmax	+85°C
3	Max.speed	Nmax	11100rpm
4	axial play	Δt	0.05~0.15mm
5	number of pole pairs	p	1
6	number of commutator segments		3
7	weight of motor	Wt	574g
8	Max.axial load(dynamic)		8N
9	Max.force for press fits(static)		211N
10	Max.radial load,4mm from flange		80N

Speed (rpm)

12000

8000

4000

0

0 50 100 150 200 250 Torque (mNm)

0 1.4 2.8 4.2 5.6 7 Current (A)

48V
166.2W

1 +5V
2 GND
3 Hall3
4 Hall2
5 Hall1

Green U
Black V
Red W