

	电机型号	Motor model			BR304724B			
1	额定电压	Nominal voltage	V	V	24			
2	空载转速	No load speed	rpm	Wnl	8530			
3	空载电流	No load current	mA	InI	<290			
4	额定转速	Nominal speed	rpm	Wc	7150			
5	额定转矩	Nominal torque	mNm	Tc	39			
6	额定电流	Nominal current	A	Ic	1.5			
7	输出功率	Output power	W	Pc	29.3			
8	堵转扭矩	Stall torque	mNm	Tmax	207			
9	堵转电流	Stall current	A	Imax	8			
10	最大效率	Max. efficiency	%	ηmax	81			
11	线间电阻	Terminal resistance	Ω	Rt	3			
12	线圈电感	Terminal inductance	L	mH	0.5			
13	力矩系数	Torque constant	mNm / A	Kt	25.89			
14	速度常数	Speed constant	rpm / V	Kn	368.79			
15	速度扭矩比	Speed torque gradient	rpm / mNm	Δn / ΔT	34.5			

1	ambient temperature	Ta	-20~+65°C
2	Max.winding temperature	Tcoilmax	+85°C
3	Max.speed	Nmax	9400rpm
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	190g
8	Max.axial load(dynamic)		5N
9	Max.force for press fits(static)		98N
10	Max.radial load,4mm from flange		25N

The graph displays the operating characteristics of a 24V 29.3W motor. The vertical axis represents Speed in rpm, with major ticks at 0, 3000, 6000, and 9000. The top horizontal axis represents Torque in mNm, with major ticks at 0, 15, 30, 45, and 60. The bottom horizontal axis represents Current in Amperes (A), with major ticks at 0, 0.6, 1.2, 1.8, and 2.4. An orange shaded region indicates the constant speed operating range, where speed is approximately 7500 rpm and torque ranges from 0 to about 30 mNm. A black curve represents the motor's speed-torque characteristic, showing a decrease in speed as torque increases beyond the constant speed region.

Torque (mNm)	Current (A)	Speed (rpm)
0	0.0	7500
15	0.6	7500
30	1.2	7500
45	1.8	6000
60	2.4	5000

Terminal definitions

