

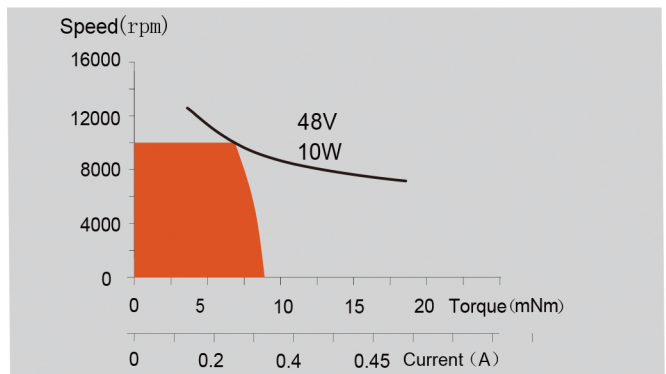
Motor Data

电机型号	Motor model			SBR224112B-02	SBR224124B-02	SBR224136B-02	SBR224148B-02
1 额定电压	Nominal voltage	V	V	12	24	36	48
2 空载转速	No load speed	rpm	Wnl	11700	12500	12500	12750
3 空载电流	No load current	mA	InI	513	235	160	120
4 额定转速	Nominal speed	rpm	Wc	9148	9912	9940	10000
5 额定转矩	Nominal torque	mNm	Tc	9	10.6	10.6	9.5
6 额定电流	Nominal current	A	Ic	1.1	0.65	0.43	0.3
7 输出功率	Output power	W	Pc	8.6	11	11	10
8 堵转转矩	Stall torque	mNm	Tmax	26.2	36.4	36.5	30.8
9 堵转电流	Stall current	A	Imax	3.18	2.22	1.49	0.98
10 最大效率	Max. efficiency	%	η_{max}	65.6	70.9	71	69.1
11 线间电阻	Terminal resistance	Ω	Rt	3.77	10.8	24.2	49.2
12 线圈电感	Terminal inductance	L	mH	1.5	3.9	8.5	18.2
13 力矩系数	Torque constant	mNm / A	Kt	8.22	16.4	24.54	31.53
14 速度常数	Speed constant	rpm / V	Kn	1162	582	389	303
15 速度转矩比	Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	283.6	244.2	241.5	284.4

Specifications

1 ambient temperature	Ta	-20~+65°C
2 Max.winding temperature	Tcoilmax	+85°C
3 Max.speed	Nmax	12750rpm
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	79g
8 Max.axial load(dynamic)		3.5N
9 Max.force for press fits(static)		60N
10 Max.radial load,4mm from flange		16N

Operating Range



Terminal definitions

Green	U	1 +5V	Magnet Encoder 3 Channel 1000CPT
Black	V	2 GND	
Red	W	3 Channel A-	
		4 Channel A+	
		5 Channel B-	
		6 Channel B+	
		7 Channel Z-	
		8 Channel Z+	
		9 Hall3	
		10 Hall2	
		11 Hall1	