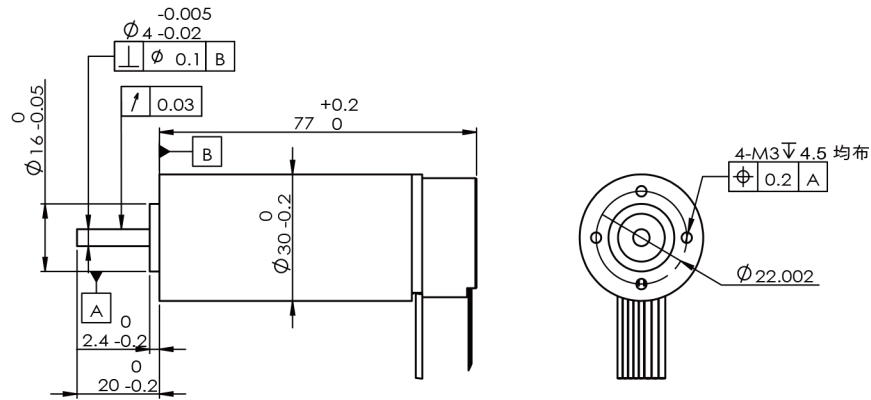




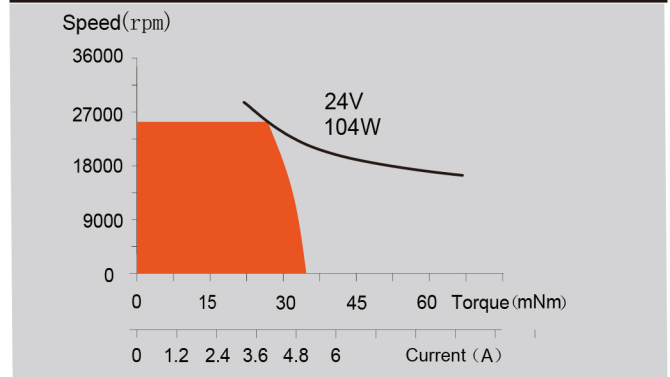
电机参数 Motor Data

电机型号	Motor model			SBR307724B	SBR307736B	SBR307748B	
1 额定电压	Nominal voltage	V	V	24	36	48	
2 空载转速	No load speed	rpm	Wnl	28700	29300	30000	
3 空载电流	No load current	mA	InI	<220	<120	<100	
4 额定转速	Nominal speed	rpm	Wc	24940	27060	27000	
5 额定转矩	Nominal torque	mNm	Tc	39.8	38.6	41	
6 额定电流	Nominal current	A	Ic	5	3.3	2.7	
7 输出功率	Output power	W	Pc	104	109.4	116	
8 堵转扭矩	Stall torque	mNm	Tmax	798	702	608	
9 堵转电流	Stall current	A	I _{max}	100	60	40	
10 最大效率	Max. efficiency	%	η _{max}	86.7	92	89	
11 线间电阻	Terminal resistance	Ω	R _t	0.27	0.6	1.2	
12 线圈电感	Terminal inductance	L	mH	0.07	0.169	0.26	
13 力矩系数	Torque constant	mNm / A	K _t	7.96	11.7	15.2	
14 速度常数	Speed constant	rpm / V	K _n	1198.8	815.5	628.2	
15 速度扭矩比	Speed torque gradient	rpm / mNm	Δn / ΔT	94.5	58	73.2	

特性参数 Specifications

1 环境温度 ambient temperature	T _a	-20~+65 °C
2 最大允许线圈温度 max. winding temperature	T _{coilmax}	+85 °C
3 最大允许速度 max. speed	N _{max}	30000rpm
4 轴向窜动 axial play	Δt	0.05-0.15 mm
5 极对数 number of pole pairs	2p	1
6 换向器片数 number of commutator segments		3
7 马达重量 weight of motor	W _t	287g
8 最大轴向载荷 (动态) Max. axial load (dynamic)		5N
9 最大允许安装力 (静态) Max. force for press fits (static)		98N
10 最大径向载荷 (离法兰4mm处) Max. radial load, 4 mm from flange		25N

电机运行范围 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	