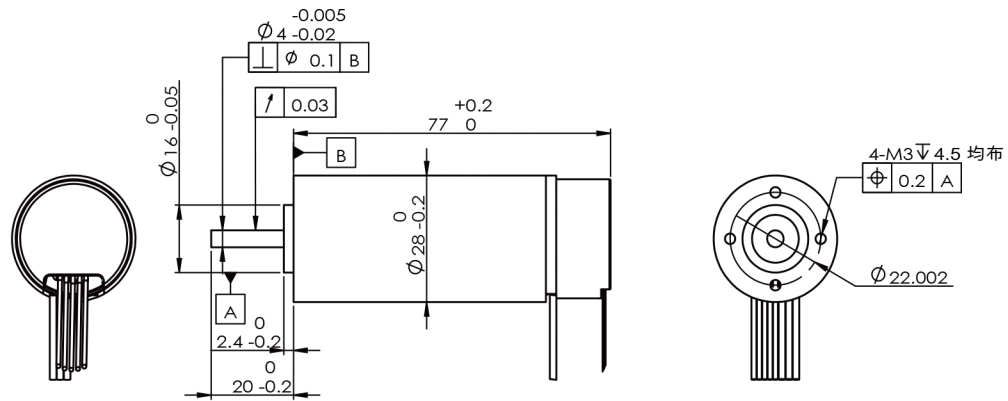




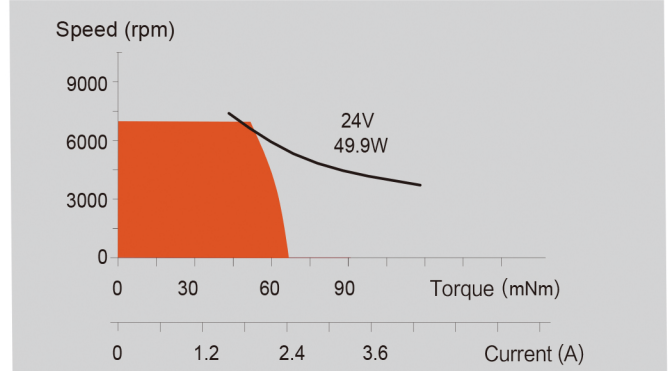
Motor Data

电机型号	Motor model			SBR287724B-02	SBR287736B-02	SBR287748B-02	
1 额定电压	Nominal voltage	V	V	24	36	48	
2 空载转速	No load speed	rpm	Wnl	7200	8400	6900	
3 空载电流	No load current	mA	InI	<400	<300	<200	
4 额定转速	Nominal speed	rpm	Wc	6600	7700	6300	
5 额定转矩	Nominal torque	mNm	Tc	72	70	71	
6 额定电流	Nominal current	A	Ic	2.3	1.74	1.09	
7 输出功率	Output power	W	Pc	49.9	56.6	47.5	
8 堵转扭矩	Stall torque	mNm	Tmax	751	724	789.9	
9 堵转电流	Stall current	A	I _{max}	24	18	12.1	
10 最大效率	Max. efficiency	%	η _{max}	90.4	90.3	91	
11 线间电阻	Terminal resistance	Ω	R _t	1	2	3.97	
12 线圈电感	Terminal inductance	L	mH	0.26	0.72	1	
13 力矩系数	Torque constant	mNm / A	K _t	31.3	40.24	65.33	
14 速度常数	Speed constant	rpm / V	K _n	305.08	237.2	146.17	
15 速度扭矩比	Speed torque gradier	rpm / mNm	Δn / ΔT	8.05	9.76	7.25	

Specifications

1 ambient temperature	T _a	-20~+65°C
2 Max.winding temperature	T _{coilmax}	+85°C
3 Max.speed	N _{max}	8400rpm
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	W _t	306g
8 Max.axial load(dynamic)		5N
9 Max.force for press fits(static)		98N
10 Max.radial load,4mm from flange		25N

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	