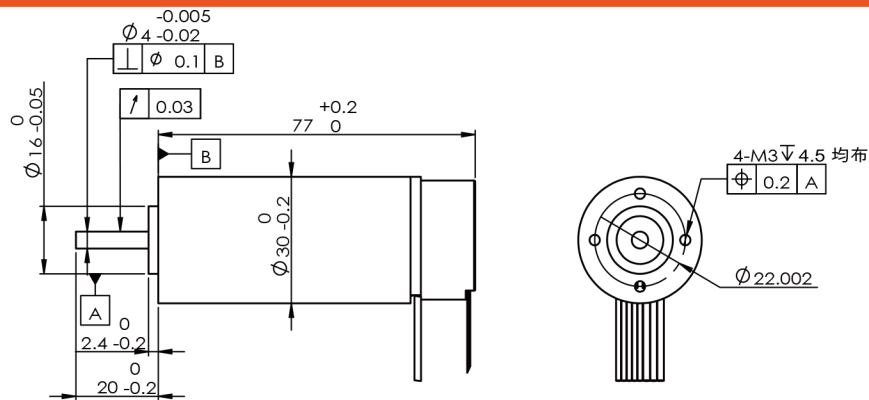




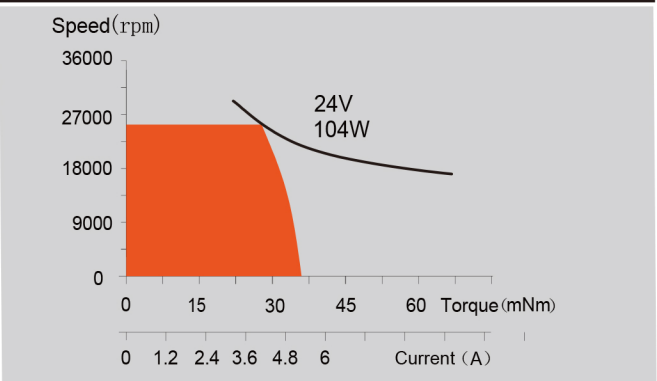
Motor Data

Motor model			SBRS307724B	SBRS307736B	SBRS307748B	
1	Nominal voltage	V	V	24	36	48
2	No load speed	rpm	Wnl	28700	29300	30000
3	No load current	mA	InI	<220	<120	<100
4	Nominal speed	rpm	Wc	24940	27060	27000
5	Nominal torque	mNm	Tc	39.8	38.6	41
6	Nominal current	A	Ic	5	3.3	2.7
7	Output power	W	Pc	104	109.4	116
8	Stall torque	mNm	Tmax	798	702	608
9	Stall current	A	Imax	100	60	40
10	Max. efficiency	%	ηmax	86.7	92	89
11	Terminal resistance	Ω	Rt	0.27	0.6	1.2
12	Terminal inductance	L	mH	0.07	0.169	0.26
13	Torque constant	mNm / A	Kt	7.96	11.7	15.2
14	Speed constant	rpm / V	Kn	1198.8	815.5	628.2
15	Speed torque gradient	rpm / mNm	Δn / ΔT	94.5	58	73.2

Specifications

1	ambient temperature	Ta	-20~+65 °C
2	max. winding temperature	Tcoilmax	+85 °C
3	max. speed	Nmax	30000 rpm
4	axial play	Δt	0.05-0.15 mm
5	number of pole pairs	2p	1
6	number of commutator segments		3
7	weight of motor	Wt	287 g
8	Max. axial load (dynamic)		5N
9	Max. force for press fits (static)		98N
10	Max. radial load, 4 mm 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	