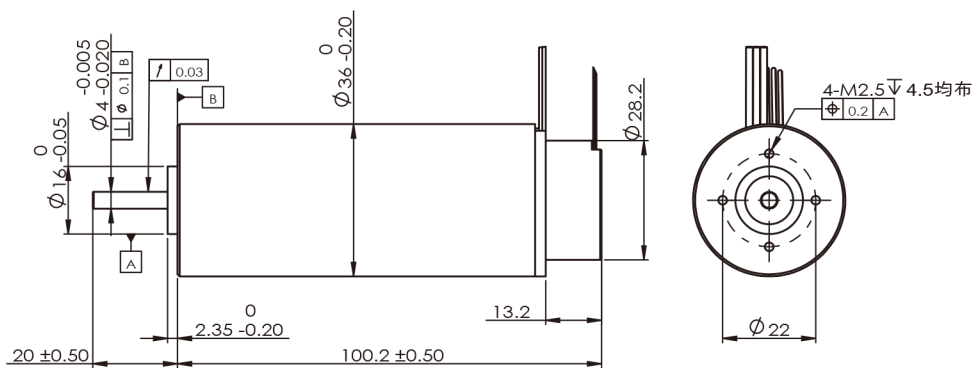
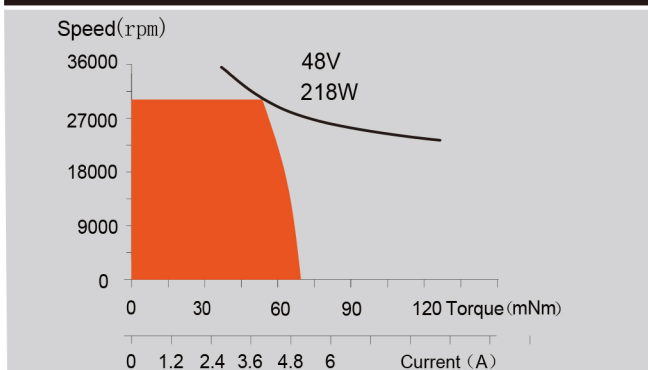



Motor Data

Motor model			SBR3610024B	SBR3610036B	SBR3610048B	
1 Nominal voltage	V	V	24	36	48	
2 No load speed	rpm	Wnl	28780	31600	33000	
3 No load current	mA	InI	<315	<300	<226	
4 Nominal speed	rpm	Wc	25000	28000	30000	
5 Nominal torque	mNm	Tc	83.5	88	69.3	
6 Nominal current	A	Ic	10.5	8.1	5	
7 Output power	W	Pc	219	258	218	
8 Stall torque	mNm	Tmax	2727.8	2058	2080.3	
9 Stall current	A	Imax	342.9	189.5	150	
10 Max. efficiency	%	ηmax	84	85	87	
11 Terminal resistance	Ω	Rt	0.07	0.19	0.32	
12 Terminal inductance	L	mH	0.058	0.117	0.17	
13 Torque constant	mNm / A	Kt	7.96	10.86	13.87	
14 Speed constant	rpm / V	Kn	1200.3	879.2	688.5	
15 Speed torque gradient	rpm / mNm	Δn / ΔT	45.2	40.9	43.3	

Specifications

1 ambient temperature	Ta	-20~+65 °C
2 max. winding temperature	Tcoilmax	+85 °C
3 max. speed	Nmax	33000 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	469 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	