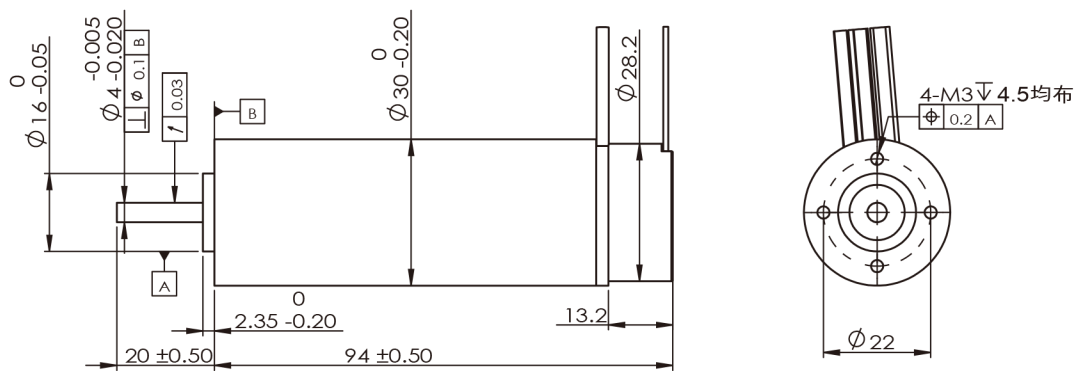
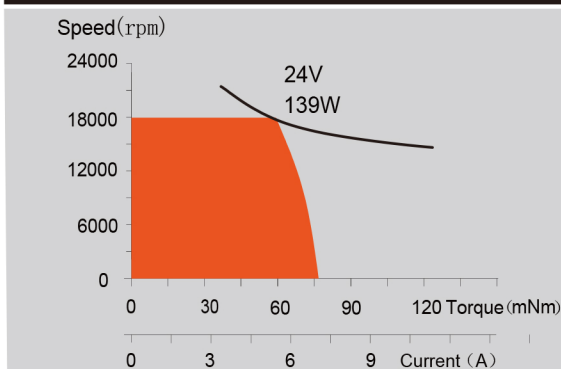



Motor Data

Motor model			SBRS309424B	SBRS309436B	SBRS309448B
1 Nominal voltage	V	V	24	36	48
2 No load speed	rpm	WnI	22300	33900	32860
3 No load current	mA	InI	<260	<390	<350
4 Nominal speed	rpm	Wc	20000	30000	31300
5 Nominal torque	mNm	Tc	66.6	56.7	62.6
6 Nominal current	A	Ic	6.5	5.6	4.5
7 Output power	W	Pc	139	178	205
8 Stall torque	mNm	Tmax	1365.8	2025.4	1964.4
9 Stall current	A	Imax	133.3	200	141.2
10 Max. efficiency	%	ηmax	86	83	88
11 Terminal resistance	Ω	Rt	0.18	0.18	0.34
12 Terminal inductance	L	mH	0.2	0.2	0.27
13 Torque constant	mNm / A	Kt	10.24	10.13	13.91
14 Speed constant	rpm / V	Kn	932.2	942.9	686.3
15 Speed torque gradient	rpm / mNm	Δn / ΔT	35	68.4	24.9

Specifications

1 ambient temperature	Ta	-20~+65 °C
2 max. winding temperature	Tcoilmax	+85 °C
3 max. speed	Nmax	33900rpm
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	360 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	