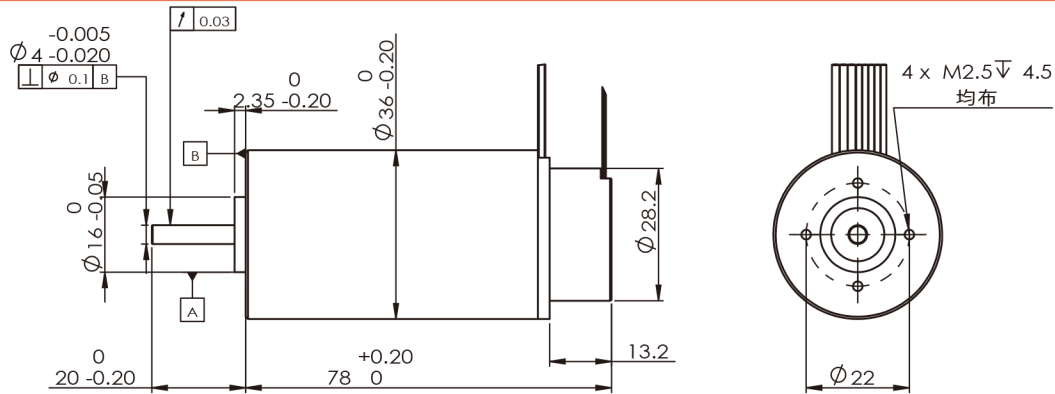




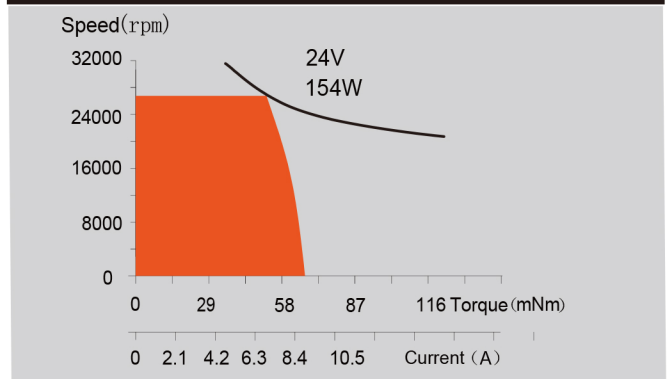
Motor Data

	Motor model			SBRS367824B	SBRS367836B	SBRS367848B	
1	Nominal voltage	V	V	24	36	48	
2	No load speed	rpm	Wnl	31300	31360	31200	
3	No load current	mA	InI	<200	<110	<100	
4	Nominal speed	rpm	Wc	25140	27000	28220	
5	Nominal torque	mNm	Tc	58.4	60	51	
6	Nominal current	A	Ic	8	5.5	3.5	
7	Output power	W	Pc	154	170	151	
8	Stall torque	mNm	Tmax	1251	2072	1130	
9	Stall current	A	Imax	171.4	190.1	77.4	
10	Max. efficiency	%	η_{max}	80	86	90	
11	Terminal resistance	Ω	Rt	0.14	0.33	0.62	
12	Terminal inductance	L	mH	0.042	0.06	0.33	
13	Torque constant	mNm / A	Kt	7.3	10.9	14.6	
14	Speed constant	rpm / V	Kn	1305.6	872	650.8	
15	Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	105.5	72.7	58.4	

Specifications

1	ambient temperature	Ta	-20~+65 °C
2	max. winding temperature	Tcoilmax	+85 °C
3	max. speed	Nmax	31360 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	373 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
Black	V	2	GND	3 Channel
Red	W	3	Channel A-	1000CPT
		4	Channel A+	
		5	Channel B-	
		6	Channel B+	
		7	Channel Z-	
		8	Channel Z+	
		9	Hall3	
		10	Hall2	
		11	Hall1	