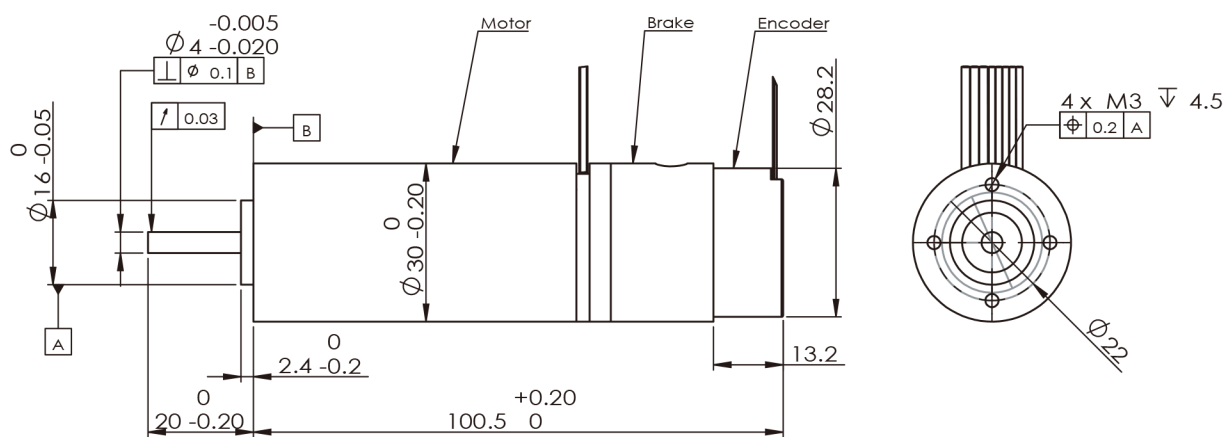




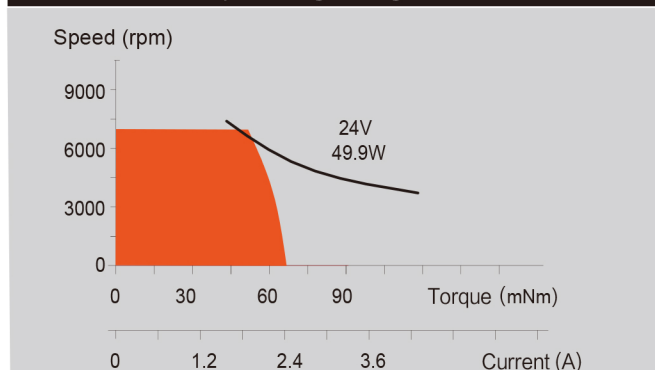
电机参数 Motor Data

电机型号	Motor model			SBR3010124Z-02	SBR3010124Z-03	SBR3010136Z-02	SBR3010136Z-03	SBR3010148Z-02	SBR3010148Z-03
1 额定电压	Nominal voltage	V	V	24	24	36	36	48	48
2 空载转速	No load speed	rpm	WnI	7200	7900	8400	8700	6900	7200
3 空载电流	No load current	mA	InI	<400	<400	<300	<350	<200	<200
4 额定转速	Nominal speed	rpm	Wc	6600	7200	7700	8000	6300	6600
5 额定转矩	Nominal torque	mNm	Tc	72	72	70	70	71	70
6 额定电流	Nominal current	A	Ic	2.3	2.52	1.74	1.8	1.09	1.12
7 输出功率	Output power	W	Pc	49.9	54.4	56.6	59.0	47.5	48.1
8 堵转扭矩	Stall torque	mNm	Tmax	751	713.7	724	763.5	789.9	666.3
9 堵转电流	Stall current	A	Imax	24	25	18	19.7	12.1	10.7
10 最大效率	Max. efficiency	%	η_{max}	90.4	90	90.3	91	91	89
11 线间电阻	Terminal resistance	Ω	Rt	1	0.96	2	1.83	3.97	4.5
12 线圈电感	Terminal inductance	L	mH	0.26	0.38	0.72	0.91	1	1.3
13 力矩系数	Torque constant	mNm / A	Kt	31.3	28.55	40.24	38.81	65.33	62.47
14 速度常数	Speed constant	rpm / V	Kn	305.08	334.5	237.2	246.0	146.17	152.87
15 速度扭矩比	Speed torque gradier	rpm / mNm	$\Delta n / \Delta T$	8.05	9.47	9.76	9.35	7.25	9.05

特性参数 Specifications

1 环境温度 ambient temperature	Ta	-20~+65 °C
2 最大允许线圈温度 max. winding temperature	Tcoilmax	+85 °C
3 最大允许速度 max. speed	Nmax	9240 rpm
4 轴向窜动 axial play	Δt	0.05-0.15 mm
5 极对数 number of pole pairs	2p	1
6 换向器片数 number of commutator segments		3
7 马达重量 weight of motor	Wt	346g
8 最大轴向载荷 (动态) Max. axial load (dynamic)		5N
9 最大允许安装力 (静态) Max. force for press fits (static)		98N
10 最大径向载荷 (离法兰4mm处) Max. radial load, 4 mm from flange		25N

电机运行范围 Operating Range



接线定义 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	