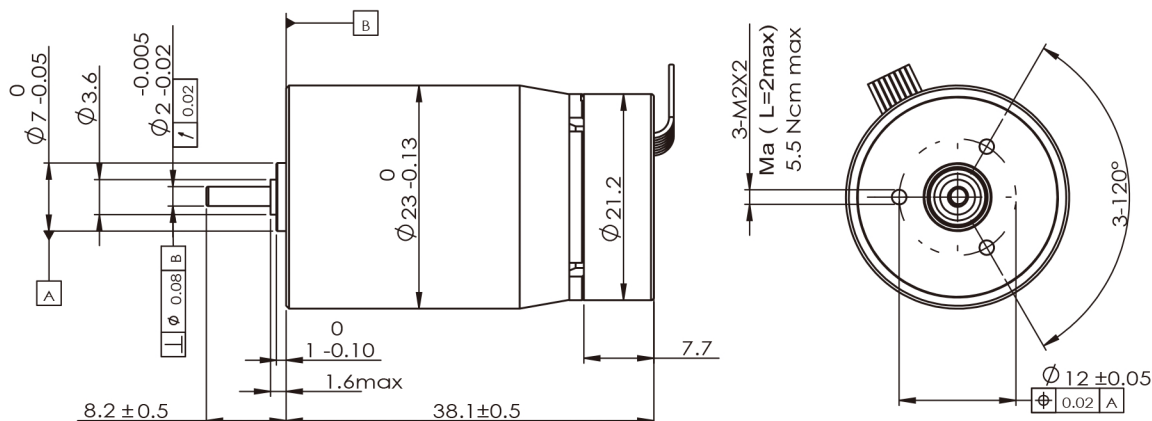




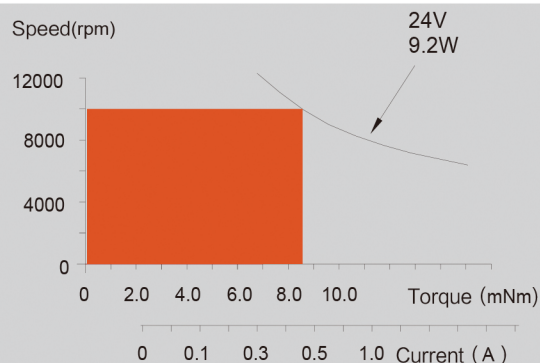
Motor Data

电机型号	Motor model			SR233809B	SR233812B	SR233824B		
1 额定电压	Nominal voltage	V	V	9	12	24		
2 空载转速	No load speed	rpm	Wnl	12500	11000	12150		
3 空载电流	No load current	mA	Inl	35	25	15		
4 额定转速	Nominal speed	rpm	Wc	9200	9450	10000		
5 额定转矩	Nominal torque	mNm	Tc	11.7	9	8.7		
6 额定电流	Nominal current	A	Ic	1.72	0.89	0.48		
7 输出功率	Output power	W	Pc	11.3	8.9	9.2		
8 堵转扭矩	Stall torque	mNm	Tmax	42.8	36.4	33		
9 堵转电流	Stall current	A	I _{max}	6.3	3.6	2		
10 最大效率	Max. efficiency	%	η _{max}	85	80	80		
11 线间电阻	Terminal resistance	Ω	R _t	1.42	3.3	12		
12 力矩系数	Torque constant	mNm / A	K _t	6.8	10.3	18.7		
13 速度常数	Speed constant	rpm / V	K _n	1388	920	506		
14 速度扭矩比	Speed torque gradient	rpm / mNm	Δn / ΔT	282	172	247		
15 线间电感	Terminal inductance	mH	L	0.07	0.18	0.87		
16 转子转动惯量	Rotor inertia	gcm ²	J	4.7	4.7	4.8		

Specifications

1 ambient temperature	T _a	-20~+65°C
2 Max.winding temperature	T _{coilmax}	+85°C
3 Max.speed	N _{max}	16000rpm
4 axial play	Δt	0.05~0.15mm
5 number of pole pairs	p	1
6 number of commutator segments		5
7 weight of motor	W _t	60g
8 Max.axial load(dynamic)		3N
9 Max.force for press fits(static)		45N
10 Max.radial load,4mm from flange		12N

Operating Range



Terminal definitions

Red	Motor +	Magnet Encoder
1	+5V	3 Channel
2	GND	1000CPT
3	Channel A-	
4	Channel A+	
5	Channel B-	
6	Channel B+	
7	Channel Z-	
8	Channel Z+	
Black	Motor -	