

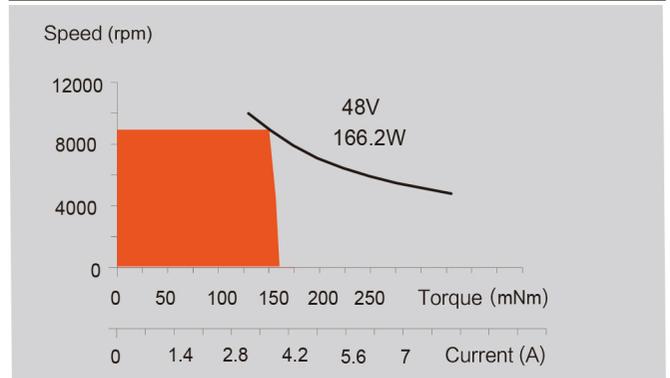
电机参数 Motor Data

电机型号 Motor model				SBR408524B-02	SBR408548B-02		
1	额定电压 Nominal voltage	V	V	24	48		
2	空载转速 No load speed	rpm	Wn1	10000	10000		
3	空载电流 No load current	mA	InI	350	150		
4	额定转速 Nominal speed	rpm	Wc	8250	9300		
5	额定转矩 Nominal torque	mNm	Tc	140	170		
6	额定电流 Nominal current	A	Ic	6.74	3.72		
7	输出功率 Output power	W	Pc	150	166.2		
8	堵转转矩 Stall torque	mNm	Tmax	2076.2	2465.2		
9	堵转电流 Stall current	A	Imax	100	53.93		
10	最大效率 Max. efficiency	%	η_{max}	93.3	93.1		
11	线间电阻 Terminal resistance	Ω	Rt	0.24	0.89		
12	线圈电感 Terminal inductance	L	mH	0.3	0.5		
13	力矩系数 Torque constant	mNm / A	Kt	20.76	45.71		
14	速度常数 Speed constant	rpm / V	Kn	460	208.9		
15	速度扭矩比 Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	5.04	3.9		

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	12210rpm
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	578 g
8	最大轴向载荷 (动态) Max. axial load (dynamic)		8N
9	最大允许安装力 (静态) Max. force for press fits (static)		211N
10	最大径向载荷 (离法兰4mm处) Max. radial load, 4 mm from flange		80N

电机运行范围 Operating Range



接线定义 Terminal definitions

Green	U	1	+5V	Magnet Encoder
Black	V	2	GND	
Red	W	3	Channel A-	3 Channel 1000CPT
		4	Channel A+	
		5	Channel B-	
		6	Channel B+	
		7	Channel Z-	
		8	Channel Z+	
		9	Hall3	
		10	Hall2	
		11	Hall1	