

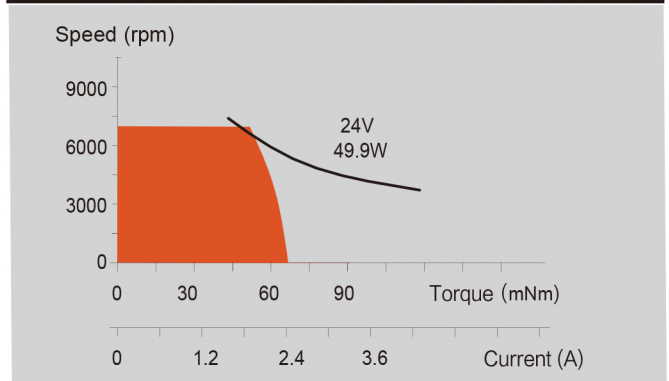
Motor Data

电机型号	Motor model			SBR307724B-02	SBR307736B-02	SBR307748B-02
1 额定电压	Nominal voltage	V	V	24	36	48
2 空载转速	No load speed	rpm	Wnl	7200	8400	6900
3 空载电流	No load current	mA	InI	<400	<300	<200
4 额定转速	Nominal speed	rpm	Wc	6600	7700	6300
5 额定转矩	Nominal torque	mNm	Tc	72	70	71
6 额定电流	Nominal current	A	Ic	2.3	1.74	1.09
7 输出功率	Output power	W	Pc	49.9	56.6	47.5
8 堵转扭矩	Stall torque	mNm	Tmax	751	724	789.9
9 堵转电流	Stall current	A	Imax	24	18	12.1
10 最大效率	Max. efficiency	%	ηmax	90.4	90.3	91
11 线间电阻	Terminal resistance	Ω	Rt	1	2	3.97
12 线圈电感	Terminal inductance	L	mH	0.26	0.72	1
13 力矩系数	Torque constant	mNm / A	Kt	31.3	40.24	65.33
14 速度常数	Speed constant	rpm / V	Kn	305.08	237.2	146.17
15 速度扭矩比	Speed torque gradier	rpm / mNm	Δn / ΔT	8.05	9.76	7.25

Specifications

- 1 ambient temperature Ta -20~+65°C
- 2 Max.winding temperature Tcoilmax +85°C
- 3 Max.speed Nmax 8400rpm
- 4 axial play Δt 0.05~0.15mm
- 5 number of pole pairs p 1
- 6 number of commutator segments 3
- 7 weight of motor Wt 306g
- 8 Max.axial load(dynamic) 5N
- 9 Max.force for press fits(static) 98N
- 10 Max.radial load,4mm from flange 25N

Operating Range



Terminal definitions

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