

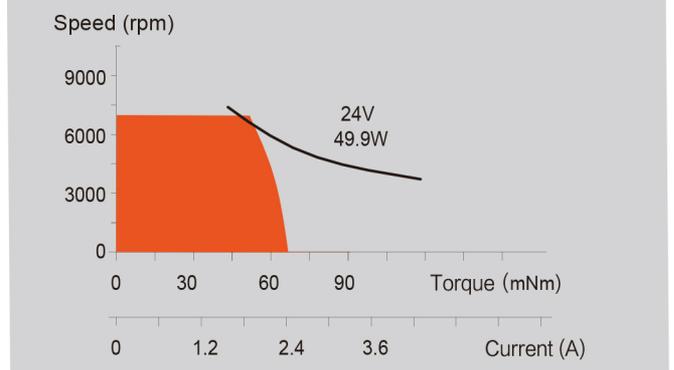
Motor Data

Motor model			SBR307724B-02	SBR307736B-02	SBR307748B-02		
1 Nominal voltage	V	V	24	36	48		
2 No load speed	rpm	Wnl	7200	8400	6900		
3 No load current	mA	InI	<400	<300	<200		
4 Nominal speed	rpm	Wc	6600	7700	6300		
5 Nominal torque	mNm	Tc	72	70	71		
6 Nominal current	A	Ic	2.3	1.74	1.09		
7 Output power	W	Pc	49.9	56.6	47.5		
8 Stall torque	mNm	Tmax	751	724	789.9		
9 Stall current	A	Imax	24	18	12.1		
10 Max. efficiency	%	ηmax	90.4	90.3	91		
11 Terminal resistance	Ω	Rt	1	2	3.97		
12 Terminal inductance	L	mH	0.26	0.72	1		
13 Torque constant	mNm / A	Kt	31.3	40.24	65.33		
14 Speed constant	rpm / V	Kn	305.08	237.2	146.17		
15 Speed torque gradient	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	9240 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	306 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

