

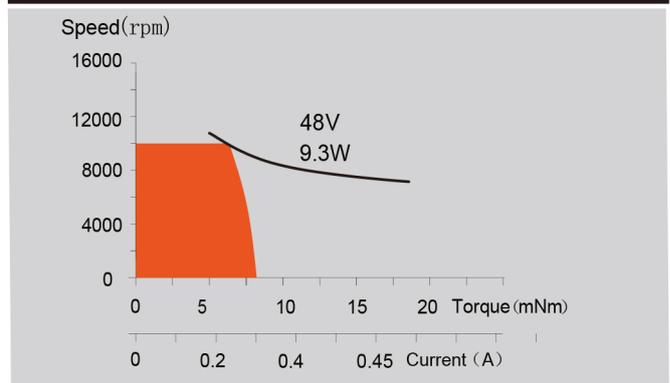
Motor Data

	Motor model			SBR224112B-02	SBR224124B-02	SBR224136B-02	SBR224148B-02
1	Nominal voltage	V	V	12	24	36	48
2	No load speed	rpm	Wnl	10200	11000	11000	11250
3	No load current	mA	InI	513	235	160	120
4	Nominal speed	rpm	Wc	8500	9100	9100	9300
5	Nominal torque	mNm	Tc	9	10.6	10.6	9.5
6	Nominal current	A	Ic	0.96	0.57	0.38	0.27
7	Output power	W	Pc	8	10.15	10.18	9.3
8	Stall torque	mNm	Tmax	30	41.4	41.5	34.9
9	Stall current	A	Imax	3.18	2.22	1.49	0.98
10	Max. efficiency	%	ηmax	70	74	74	72
11	Terminal resistance	Ω	Rt	3.77	10.8	24.2	49.2
12	Terminal inductance	L	mH	1.5	3.9	8.5	18.2
13	Torque constant	mNm / A	Kt	9.42	18.63	27.89	35.73
14	Speed constant	rpm / V	Kn	1013	513	342	267
15	Speed torque gradient	rpm / mNm	Δn / ΔT	187.6	174.4	172	201.9

Specifications

1	ambient temperature	Ta	-20~+65 °C
2	max. winding temperature	Tcoilmax	+85 °C
3	max. speed	Nmax	13700 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	79 g
8	Max. axial load (dynamic)		3.5N
9	Max. force for press fits (static)		60N
10	Max. radial load, 4 mm from flange		16N

Operating Range



Terminal definitions

