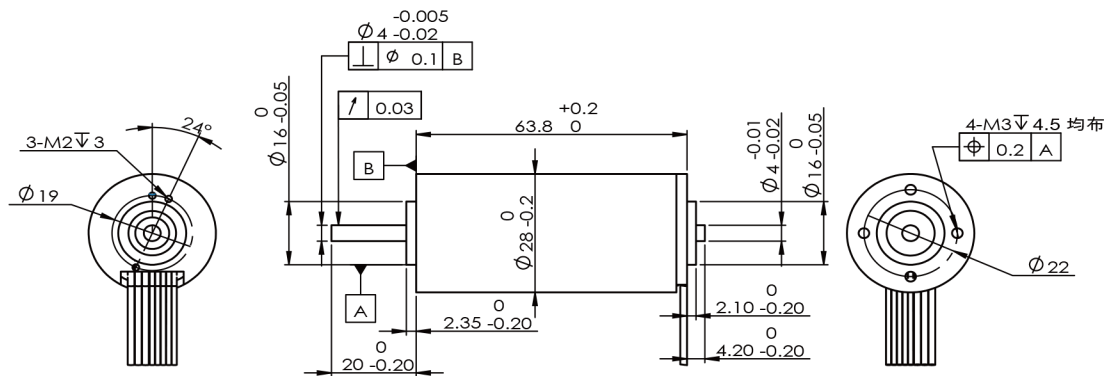




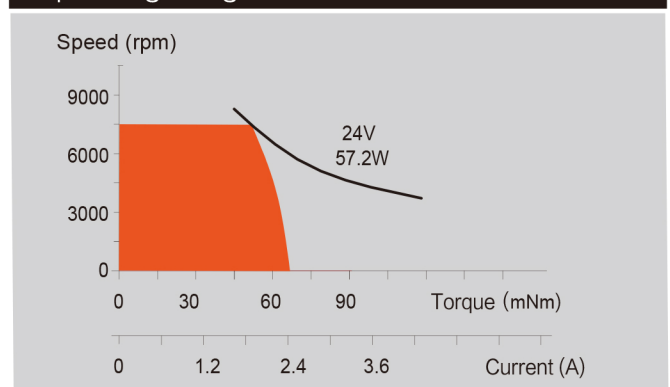
Motor Data

Motor model			BR286424B	BR286424B-03	BR286436B	BR286436B-03	BR286448B	BR286448B-03
1 Nominal voltage	V	V	24	24	36	36	48	48
2 No load speed	rpm	Wnl	8400	9250	9510	9900	8040	8400
3 No load current	mA	InI	<400	<400	<300	<350	<200	<200
4 Nominal speed	rpm	Wc	7500	8300	8600	9000	7300	7500
5 Nominal torque	mNm	Tc	72	72	70	70	71	70
6 Nominal current	A	Ic	2.68	2.95	1.97	2.05	1.27	1.31
7 Output power	W	Pc	57.2	62.5	63.1	66.2	54.4	55.1
8 Stall torque	mNm	Tmax	643.9	609.5	639.8	671	677.9	571.1
9 Stall current	A	Imax	24	25	18	19.7	12.1	10.67
10 Max. efficiency	%	ηmax	89	88	89	90	90	88
11 Terminal resistance	Ω	Rt	1	0.96	2	1.83	3.97	4.5
12 Terminal inductance	L	mH	0.26	0.38	0.72	0.91	1	1.3
13 Torque constant	mNm / A	Kt	26.83	24.38	35.55	34.11	56.07	53.54
14 Speed constant	rpm / V	Kn	355.9	391.7	268.6	280.0	170.3	178.3
15 Speed torque gradient	rpm / mNm	Δn / ΔT	11.3	13.33	12.8	12.46	10.2	12.7

Specifications

1 ambient temperature	Ta	-20~+65 °C
2 max. winding temperature	Tcoilmax	+85 °C
3 max. speed	Nmax	10461 rpm
4 axial play	Δ t	0.05-0.15 mm
5 number of pole pairs	2p	1
6 number of commutator segments		3
7 weight of motor	Wt	302 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

1	+5V
2	GND
3	Hall3
4	Hall2
5	Hall1
Green	U
Black	V
Red	W