

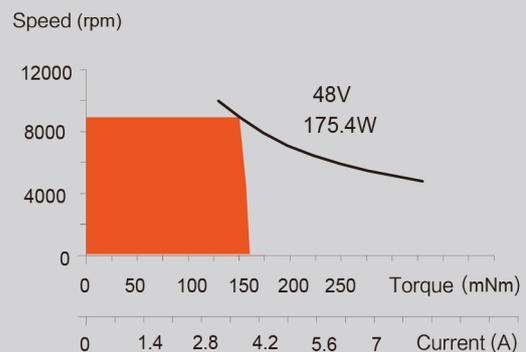
Motor Data

Motor model			BR407124B	BR407148B		
1 Nominal voltage	V	V	24	48		
2 No load speed	rpm	Wnl	11100	11000		
3 No load current	mA	InI	350	150		
4 Nominal speed	rpm	Wc	10290	9800		
5 Nominal torque	mNm	Tc	140	170		
6 Nominal current	A	Ic	6.74	3.94		
7 Output power	W	Pc	150	175.4		
8 Stall torque	mNm	Tmax	2076.2	2325.7		
9 Stall current	A	Imax	100	53.93		
10 Max. efficiency	%	η_{max}	93.3	93		
11 Terminal resistance	Ω	Rt	0.24	0.89		
12 Terminal inductance	L	mH	0.3	0.5		
13 Torque constant	mNm / A	Kt	20.76	43.12		
14 Speed constant	rpm / V	Kn	460	221.4		
15 Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	5.04	4.4		

Specifications

1 ambient temperature	Ta	-20~+65 °C
2 max. winding temperature	Tcoilmax	+85 °C
3 max. speed	Nmax	12210rpm
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	574 g
8 Max. axial load (dynamic)		8N
9 Max. force for press fits (static)		211N
10 Max. radial load, 4 mm from flange		80N

Operating Range



Terminal definitions

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