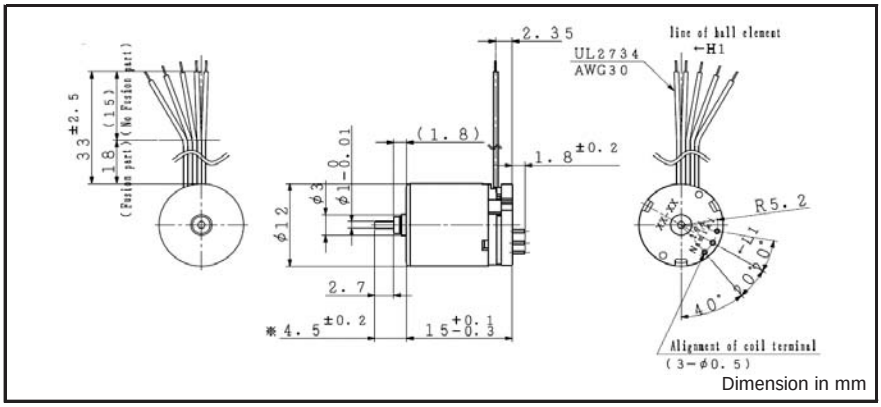
Namiki

dyNAMIX

DC BRUSHLESS MOTOR SERIES

BMS 12-15 ϕ12 , 0.45 mNm with Hall sensors



Dimension in mm

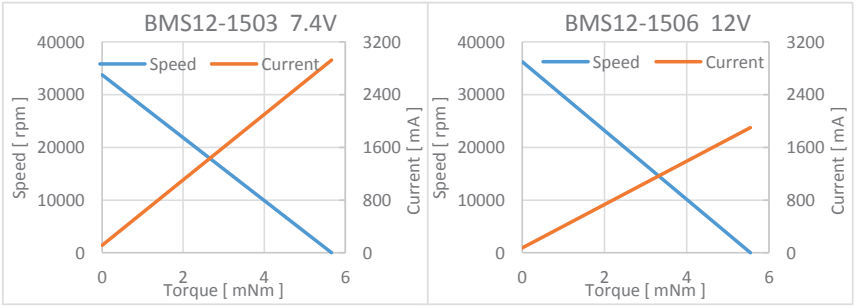
For combination with gearhead: SSG12, SPG12

	Ordering number	BMS12-1503	BMS12-1506	
1	Nominal voltage	7.4	12.0	V
2	Rated torque	0.93	0.92	mNm
3	Rated speed	28200	30300	rpm
4	Rated current	572	376	mA
5	No load speed	33700	36200	rpm
6	No load current	112	74	mA
7	Stall torque	5.66	5.55	mNm
8	Stall current	2.92	1.90	A
9	Output power	5.0	5.3	W
10	Max. efficiency	65	64	%
11	Terminal resistance	2.53	6.31	Ω
12	Friction torque	0.23	0.23	mNm
13	Back-EMF constant	0.211	0.318	mV/rpm
14	Torque constant	2.01	3.04	mNm/A
15	Slope of N-T curve	5960	6530	rpm/mNm
16	Mechanical time constant	5.53	6.06	ms
17	Rotor inertia	0.08	0.08	gcm^2
18	Max. torque	2.83	2.77	mNm

	Mechanical data		
19	Shaft radial play	0.015	mm
20	Shaft axial play	0.23	mm
21	Max. shaft radial load	0.27 (3.7 mm)	N
22	Max. shaft axial load	0.1	N
23	Max. shaft axial load at standstill	20	N
	Environmental specifications		
24	Operating temperature	-20 ~ 80	℃
25	Max. coil temperature	90	℃
	Other specifications		
26	Weight	7.5	g

Electrical connections

H1	Hv	Hall sensor output V
H2	Vdd	Input signal 3.0～5.0V
H3	Gnd	GND
H4	Hw	Hall sensor output W
H5	Hu	Hall sensor output U
L1	Lu	Motor winding U
L2	Lv	Motor winding V
L3	Lw	Motor winding W



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Specifications are subject to change without notice.

NAMIKI GROUP