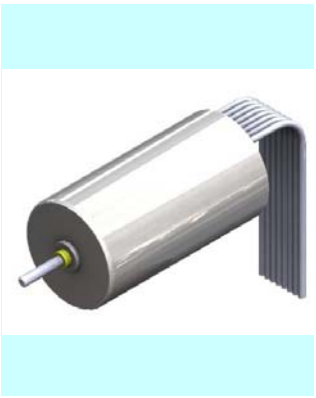
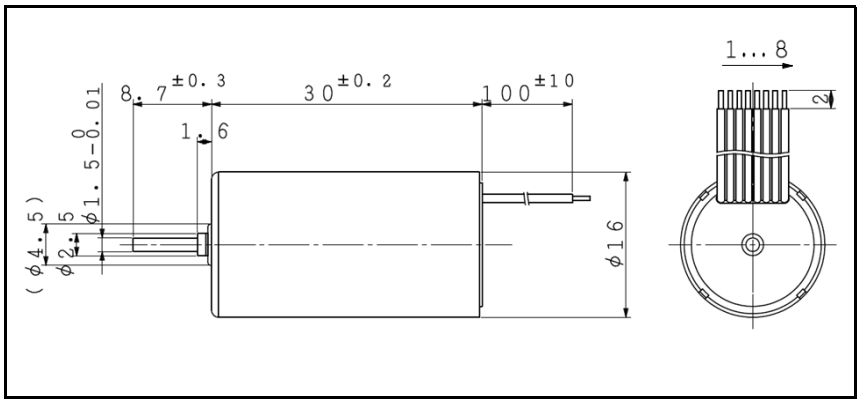
ADAMANT Namiki

DC BRUSHLESS MOTOR SERIES

dyNAMIX

BMS 16-30 φ16 , 2.80 mNm with Hall sensors





For combination with gearhead: SSG15, SPG16

Dimension in mm

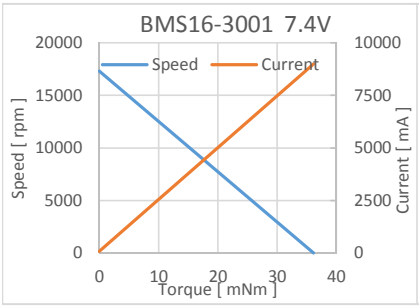
	Ordering number	BMS16-3001	BMS16-3002	BMS16-3009	
1	Nominal voltage	7.4	12.0	24.0	V
2	Rated torque	3.00	2.96	2.83	mNm
3	Rated speed	15900	16300	16200	rpm
4	Rated current	814	510	245	mA
5	No load speed	17300	17800	17800	rpm
6	No load current	74	47	23	mA
7	Stall torque	36.12	35.43	32.60	mNm
8	Stall current	9.00	5.59	2.57	A
9	Output power	16.4	16.5	15.2	W
10	Max. efficiency	83	83	82	%
11	Terminal resistance	0.82	2.15	9.32	Ω
12	Friction torque	0.30	0.30	0.30	mNm
13	Back-EMF constant	0.424	0.669	1.338	mV/rpm
14	Torque constant	4.05	6.39	12.78	mNm/A
15	Slope of N-T curve	479	502	545	rpm/mNm
16	Mechanical time constant	2.95	3.09	3.36	ms
17	Rotor inertia	0.59	0.59	0.59	gcm^2
18	Max. torque	18.06	17.71	16.30	mNm

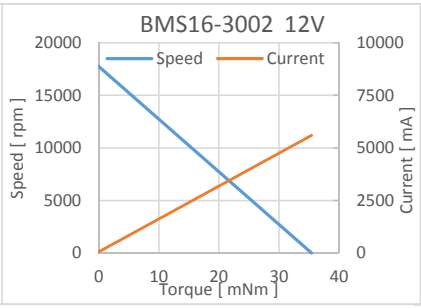
	Mechanical data		
19	Shaft radial play	0.015	mm
20	Shaft axial play	0.23	mm
21	Max. shaft radial load	0.27 (3.7 mm)	N
22	Max. shaft axial load	0.1	N
23	Max. shaft axial load at standstill	10	N
	Environmental specifications		
24	Operating temperature	-20 ~ 80	℃
25	Max. coil temperature	90	℃
	Other specifications		
26	Weight	42	g

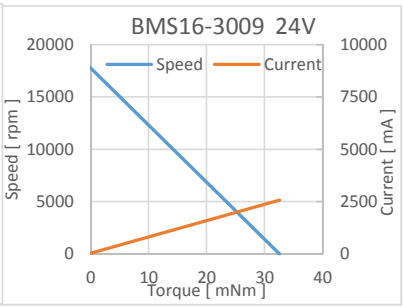
Electrical connections

#1	Lw	Motor winding W
#2	Lv	Motor winding V
#3	Lu	Motor winding U
#4	Vdd	Input voltage 3.0V
#5	Gnd	GND
#6	Hw	Hall sensor output W
#7	Hv	Hall sensor output V
#8	Hu	Hall sensor output U

*The characteristics are measured with our test driver.







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