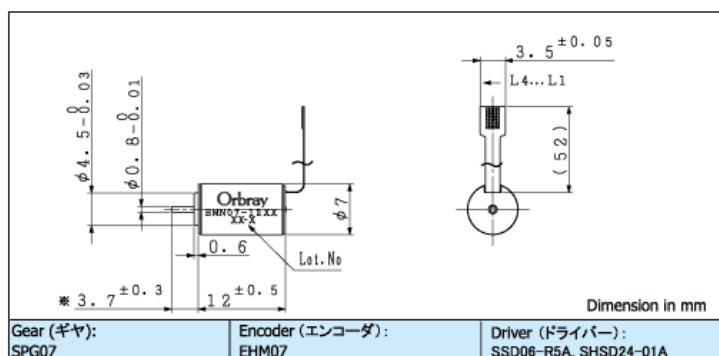


Sensorless, Sleeve bearing Brushless Motor.



*Refer to [here](#) for connection spec.



BMN07-12 Specifications

		Brushless Motor BMN07-1207	Brushless Motor BMN07-1218	
1	Normal voltage	3.0	5.0	V
2	No load speed	21300	22300	rpm
3	No load current	120	78	mA
4	Stall torque	0.30	0.30	mNm
5	Stall current	430	280	mA
6	Output power	0.2	0.2	W
7	Max efficiency	22	22	%
8	Terminal resistance	6.93	18.14	Ω
9	Rated torque	0.06	0.06	mNm
10	Rated speed	17100	17900	rpm
11	Rated current	182	117	mA
12	Friction torque	0.12	0.12	mNm

		Brushless Motor BMN07-1207	Brushless Motor BMN07-1218	
13	Back-EMF constant	0.102	0.161	mV/rpm
14	Torque constant	0.97	1.54	mNm/A
15	Slope of N-T curve	70205	73297	rpm/mNm
16	Mechanical time constant	7.34	7.66	ms
17	Rotor inertia	0.01	0.01	gcm ²
18	Max torque	0.15	0.15	mNm

*BMN07-12 is a [Brushless Motor](#) with a diameter of 7 mm and length of 12 mm.

* How to read the model number (motor only) 「 BMN xx - yy zz 」

BMN…[Brushless Motor](#) standard series(Sensorless)、xx…Diameter(mm)、yy…Length(mm)、zz…Terminal resistance (Ω, approximate value)

Mechanical data

19	Shaft raddial play	0.015	mm
20	Shaft axial play	0.23	mm
21	Max shaft radial load	0.27 (3.7mm*)	N
22	Max shaft axial load	0.1	N
23	Max shaft axial load at standstill	4.9	N
24	Operating temperature	-20~80	°C
25	Max coil temperature	90	°C
26	Weight	3.8	g

*measured at () mm from flange

Environmental data

#1	Lu	Motor winding U
#2	Lv	Motor winding V
#3	COM	-
#4	Lw	Motor winding W

Sensored version available as option.

