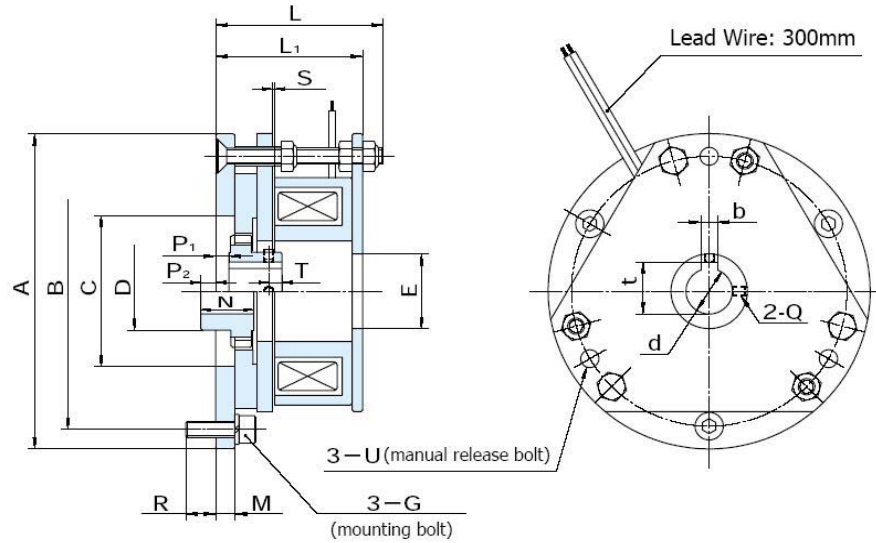


MNB

EM Spring-Applied Brake

Types: 0.2, 0.4, 0.8

[EM: Electromagnet]



MNB		0.2G	0.2K	0.4G	0.4K	0.8G	0.8K
Static Torque [ft-lbs / N-m]		1.5 / 2		3 / 4		5.9 / 8	
Coil (20°C)	Voltage [DC-V]	24	90	24	90	24	90
	Current [A]	0.56	0.15	0.65	0.17	0.8	0.22
	Resistance [Ω]	43	600	37	520	30	410
	Wattage [W]	13.5	13.5	15.5	15.5	19	20
Armature	Pull-In Time [ms]	35	35	40	40	60	25 ¹
	Release Time [ms]	30	30	30	30	30	30 ¹
Max Allowable Speed [rpm]		4000		4000		3500	
Moment of Inertia (J) [kg-cm ²]		0.3		0.4		1.3	
Max Air Gap Until Adjustment [mm]		0.6		0.6		0.6	
Max Energy Until Adjustment [J]		1.7 x 10 ⁷		2.7 x 10 ⁷		4.0 x 10 ⁷	
Max Energy Until Life [J]		4.0 x 10 ⁷		6.0 x 10 ⁷		9.0 x 10 ⁷	
Max Work Rate [W]		41		57		98	
Bore [mm]	dH7	12		14		19	
Key Way [mm]	bE9	4		5		5	
	t+0.15/-0	13.5		16		21	
Dimensions [mm]	A	85		97		120	
	B	74		85		108	
	C	44		46.5		68	
	D	24		24		32	
	E	20		23		40	
	G	M5		M5		M5	
	L	50.5		50.5		55.5	
	L1	43.5		44.3		49.1	
	M	4.7		5.7		5.7	
	N	16		16		25	
	P1	2.8		4		4	
	P2	5.7		4.5		11	
	Q	M3		M3		M4	
	R	7.8		8.8		8.8	
	S	0.1~0.35		0.1~0.35		0.1~0.35	
	T	4		4		7	
	U	M4-35		M5-35		M5-40	
Weight [lbs / kg]		1.8 / 0.8		2.2 / 1.0		3.3 / 1.5	

[Included parts & accessories : bolts, washers, surge protector]

[1" = 25.4mm]

[Note 1 : OFS 220 power supply]

Ogura Industrial Corp.
100 Randolph Rd.
Somerset, NJ 08875

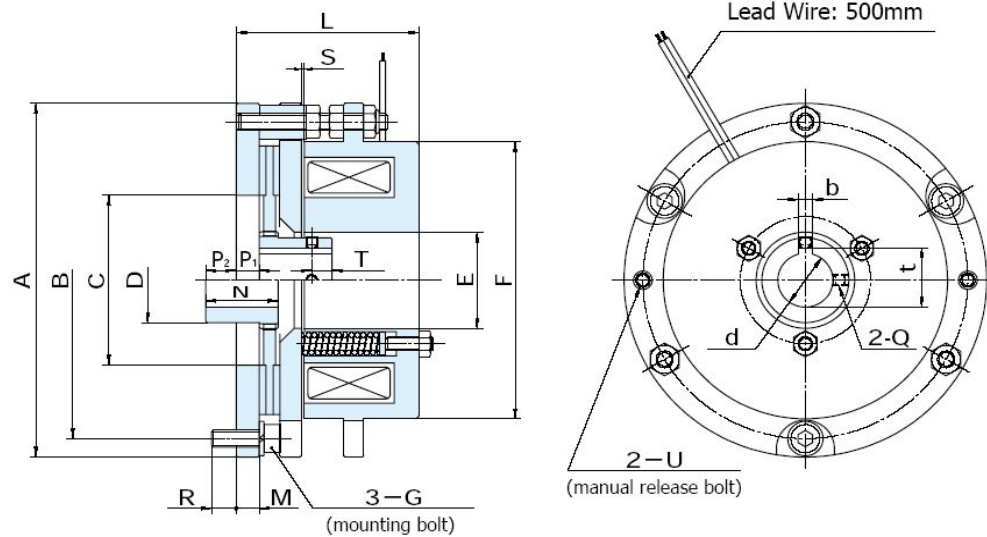
www.ogura-clutch.com
info@ogura-clutch.com
(732) 271-7361

MNB

EM Spring-Applied Brake

Types: 1.2, 2.5, 5, 10, 20, 40, 80

[EM: Electromagnet]



MNB		1.2G	1.2K	2.5G	2.5K	5G	5K	10G	10K	20J	20K	40J	40K	80J	80K
Static Torque [ft-lbs / N-m]		8.9 / 12	18 / 25	37 / 50	74 / 100	148 / 200	295 / 400	590 / 800							
Coil (20°C)	Voltage [DC-V]	24	90	24	90	24	90	24	90	72	90	72	90	72	90
	Current [A]	1	0.26	1.6	0.39	1.74	0.47	2.2	0.58	0.58	0.97	1.1	1.3	1.4	1.8
	Resistance [Ω]	24	350	15	230	14	190	11	150	150	74	82	55	62	40
	Wattage [W]	24	23	39	35	42	42	53	53	53	70	98	94	130	130
Armature	Pull-In Time [ms]	80	40 ¹	100	45 ¹	120	60 ¹	180	90 ¹	120 ¹	90 ²	160	120 ²	200	160 ²
	Release Time [ms]	70	70 ¹	100	100 ¹	120	120 ¹	160	160 ¹	180 ¹	100 ²	220	140 ²	230	150 ²
Max Allowable Speed [rpm]		3500	3000	3000	2500	2500	2000	2000							
Moment of Inertia (J) [kg-cm ²]		3	6	14.5	25	60	170	503							
Max Air Gap Until Adjustment [mm]		0.8	0.8	0.8	0.8	1	1.2	1.2							
Max Energy Until Adjustment [J]		7.2 x 10 ⁷	1.0 x 10 ⁸	1.4 x 10 ⁸	1.6 x 10 ⁸	3.0 x 10 ⁸	5.6 x 10 ⁸	7.0 x 10 ⁸							
Max Energy Until Life [J]		2.0 x 10 ⁸	3.4 x 10 ⁸	4.8 x 10 ⁸	7.9 x 10 ⁸	1.2 x 10 ⁹	2.2 x 10 ⁹	3.2 x 10 ⁹							
Max Work Rate [W]		123	147	245	327	490	590	700							
Bore [mm]	dH7	19	24	28	32	42	55	65							
Key Way [mm]	bE9	5	7	7	10	12	16	18							
	t+0.15/-0	21	27	31	35.5	45.5	60	71							
	Ah9	125	145	165	190	230	275	340							
Dimensions [mm]	B	112	130	150	170	210	250	305							
	CH9	60	75	85	95	125	150	180							
	D	30	38	45	52	65	80	95							
	E	34	44	54	60	70	90	105							
	F	98	116	134	152	186	220	270							
	G	M6	M6	M6	M8	M8	M12	M16							
	L	63	72	78	88	98	125	145							
	L ³	63	72	78	88	98	143	167							
	M	8	9	10	11	12	15	18							
	N	25	30	35	40	50	60	70							
	P ₁	8	9	10	11	12	15	18							
	P ₂	10.5	13	16	18	27	31	33							
	Q	M4	M5	M6	M6	M8	M8	M8							
	R	8.5	9.5	8.5	12	11	17	23							
	S	0.1~0.35	0.1~0.35	0.1~0.35	0.2~0.45	0.2~0.45	0.2~0.45	0.3~0.55							
	T	7	10	10	15	15	28	30							
	U	M5-28	M6-30	M6-35	M8-40	M10-45	M12-85	M12-95							
Weight [lbs / kg]		7.3 / 3.3	11 / 5	16 / 7	24 / 11	41 / 19	77 / 35	137 / 62							

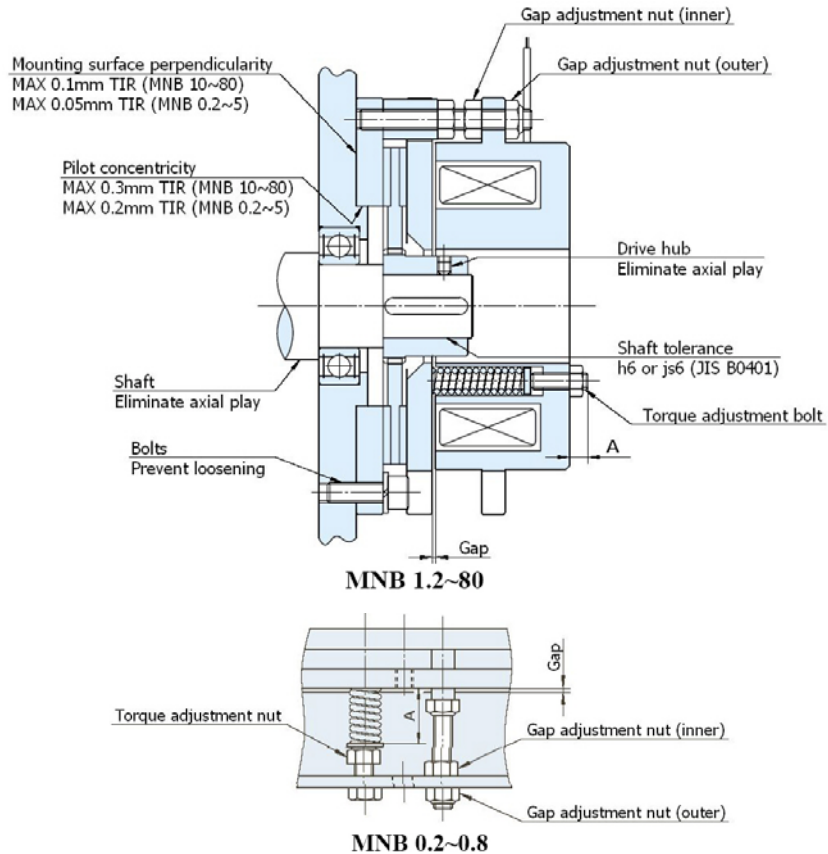
[Note 1 : OFS 220 power supply]

[Note 2 : OHP 18H power supply]

[Note 3 : Total height including gap adjustment bolt]

[1 inch = 25.4 mm]

MNB: TYPICAL INSTALLATION



MNB	0.2	0.4	0.8	1.2	2.5	5	10	20	40	80
Normal Air Gap [mm]	0.1~0.35						0.2~0.45			0.3~0.55
Max Air Gap [mm]	0.6			0.8			1	1.2		
Dimension A	Torque [ft-lbs / Nm]									
15.5	1.5 / 2	3 / 4								
16	1.2 / 1.6	2.4 / 3.2								
16.5	0.9 / 1.2	1.8 / 2.4								
20.5			5.9 / 8							
20.9			4.7 / 6.4							
21.3			3.5 / 4.8							
5				8.9 / 12						
6				7.0 / 9.5	18 / 25	37 / 50	74 / 100			
7										
8					15 / 20	30 / 40	59 / 80	148 / 200		
10					11 / 15	22 / 30	44 / 60	118 / 160		
12								89 / 120		
14									295 / 400	590 / 800
16									258 / 350	
17										516 / 700
18									221 / 300	
20										443 / 600

MNB: TORQUE CHARACTERISTIC

