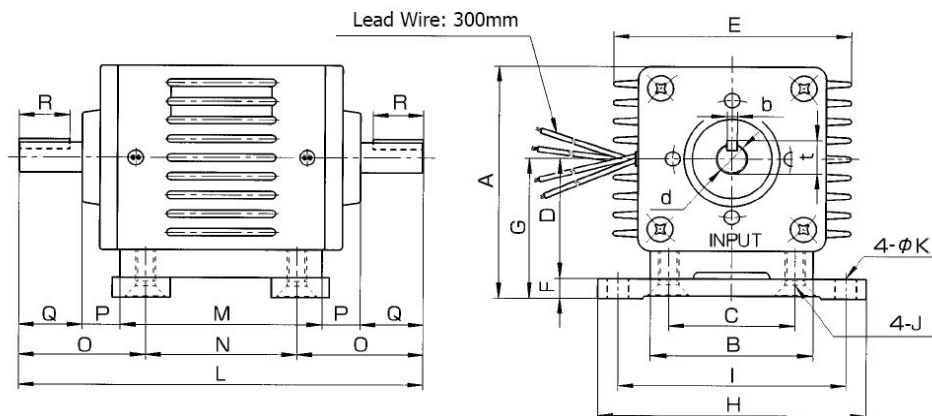


MP

Micro EM Clutch/Brake Unit

Types: 5, 10, 20, 40, 80

[EM: Electromagnet]



MP		5	10	20	40	80
Static Torque [in-lbs / N-m]		4.4 / 0.5	8.9 / 1	18 / 2	35 / 4	71 / 8
Coil (20°C)	Voltage [DC-V]	0.75	1.05	1.4	1.65	2.4
	Current [A]	5*				
	Resistance [Ω]	0.15	0.21	0.28	0.33	0.48
	Wattage [W]	3.8	5.3	7	8.3	12
Max Work Rate [W]		3.8	4.8	5.7	8.2	14
Max Allowable Speed [rpm]		2000	2000	2000	1500	1500
Max Overhanging Load ¹ [lbs / N]		21 / 92	43 / 190	56 / 250	76 / 340	81 / 360
Moment of Inertia (J) [kg-cm ²]	Input	0.068	0.148	0.29	0.718	1.3
	Output	0.125	0.2	0.45	0.8	2
Max Wear Volume [cm ³]		0.57	0.75	1.2	2.2	3.7
Max Work Rate [W]		3.8	4.8	5.7	8.2	14
Bore [mm]	dh7	6	8	10	12	15
Key Way [mm]	bh8	2	2.5	4	4	5
	t+0/-0.15	6.9	8.9	11.5	13.5	17
Dimensions [mm]	A	61.5	69	77	93	105
	B	42	48	55	64	75
	C	32	35	40	50	60
	D	30.5	35	40	48	55
	E	64	74	84	94	104
	F	5	5	5	8	8
	G	35.5	40	45	56	63
	H	72	84	90	106	120
	I	62	70	78	90	100
	J	M5	M6	M6	M8	M8
	K	5.5	6.5	6.5	8.5	8.5
	L	100	124	139	166	194
	M	50	62	69	80	86
	N	40	45	50	60	70
	O	30	39.5	44.5	53	62
	P	9	11	12	13	14
	Q	16	20	23	30	40
	R	14	18	20	20	35
Weight [lbs / kg]		1.2 / 0.5	2 / 0.9	3.3 / 1.5	4.6 / 2.1	6.4 / 2.9

[Note 1 : At shaft midpoint; based on 600rpm/6000hr application]

[1" = 25.4mm]

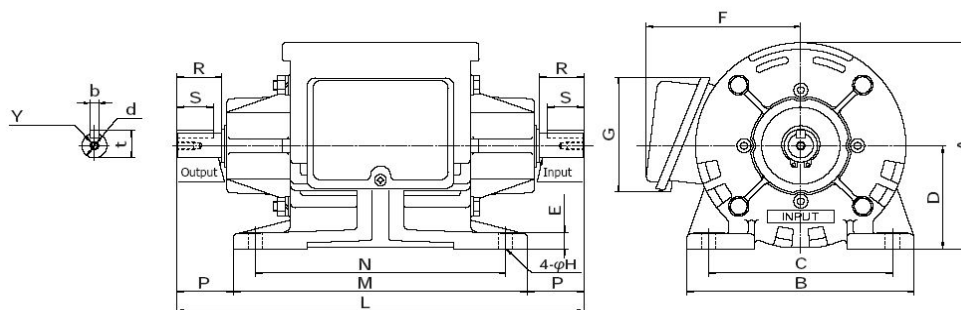
* Coil voltage varies per unit size. A special power supply is required because of the special low voltage coils that are used to achieve over-excitation in these units.

MP

EM Clutch/Brake Unit

Types: 120, 250, 500

[EM: Electromagnet]



MP		120	250	500
Static Torque [in-lbs / N-m]		106 / 12	221 / 25	443 / 50
Coil (20°C)	Voltage [DC-V]	5.04	5.15	5.22
	Current [A]	3*	5*	6*
	Resistance [Ω]	1.68	1.03	0.87
	Wattage [W]	15	25	30
Max Work Rate [W]		23	38	49
Max Allowable Speed [rpm]		1500	1000	1000
Max Overhanging Load ¹ [lbs / N]		173 / 770	173 / 770	225 / 1000
Moment of Inertia (J) [kg-cm ²]	Input	3.5	9.25	24.2
	Output	6.25	16.7	49
Max Wear Volume [cm ³]		6	11	22.5
Max Work Rate [W]		23	38	49
Bore [mm]	dh7	15	20	25
Key Way [mm]	bh8	5	5	7
	t+0/-0.20	17	22	28
Dimensions [mm]	A	126	157	197
	B	136	156	190
	C	110	130	160
	D	63	80	102
	E	10	12	15
	F	98	112	130
	G	71	71	71
	H	8.5	8.5	11
	L	244	277	320
	M	176	191	220
	N	150	165	190
	P	34	43	50
	R	27	36	45
	S	22	31	40
	Y	M5-10	M6-12	M8-16
Weight [lbs / kg]		11 / 5	18 / 8	33 / 15

[Note 1 : At shaft midpoint; based on 600rpm/10000hr application]

[1" = 25.4mm]

* Coil voltage varies per unit size. A special power supply is required because of the special low voltage coils that are used to achieve over-excitation in these units.

MP: TORQUE CHARACTERISTIC

