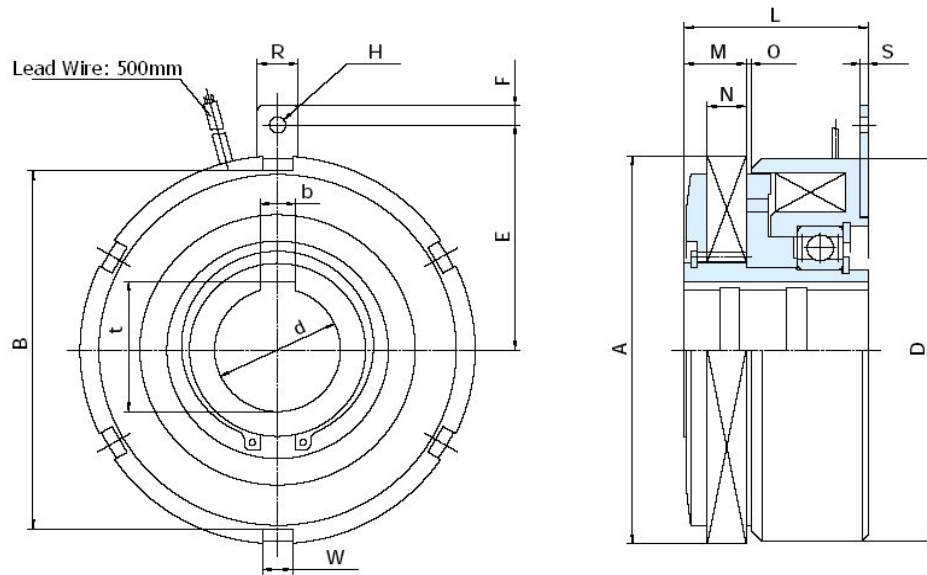


MDC

Dry-Type Multiple-Disk EM Clutch

Types: 1.2, 2.5, 5, 10, 20

[EM: Electromagnet]



MDC		1.2	2.5	5	10	20
Dynamic Torque [ft-lbs / N-m]		8.9 / 12	18 / 25	37 / 50	74 / 100	148 / 200
Static Torque [ft-lbs / N-m]		13 / 17	26 / 35	52 / 71	103 / 140	207 / 281
Coil (20°C)	Voltage [DC-V]	24				
	Current [A]	0.48	0.71	0.91	1.5	1.9
	Resistance [Ω]	49.5	34	26.4	16	12.8
	Wattage [W]	12	17	22	36	45
Armature Pull-In Time [ms]		36	50	60	80	110
Torque Build-Up Time [ms]		80	130	150	160	240
Torque Decay Time [ms]		34	38	50	63	120
Max Allowable Speed [rpm]		1400	1200	1000	850	700
Moment of Inertia (J) [kg-cm ²]	Hub	3	6	14	34	61
	Outer Disc	0.5	1	2	7	13
Total Energy Until Life [J]		2.5×10^7	3.7×10^7	5.8×10^7	12.3×10^7	16.0×10^7
Max Work Rate [W]		7	11	23	42	65
Bore [mm]	dH7	20	25	30	40	50
Key Way [mm]	bE9	6	8	8	12	14
	t+0.2/-0	21.7	26.7	32	42.5	52.5
	A	80	95	112	132	157
Dimensions [mm]	B	73	87.5	103	122	145
	D	78	93	110	130	155
	E	47	57	63	80	91
	F	6	6	6	8	8
	H	5.5	5.5	5.5	6.5	6.5
	L	45	49	57	63	73
	M	13.5	14.8	17.7	22	24.5
	N	8.5	9.3	10.2	14.2	15.4
	O	2	2	1.5	2	2
	R	12	14	14	16	16
	S	2	2.3	2.3	3	3
	W	8	10	10	12	12
	W (Qty)	6	6	6	6	6
Weight [lbs / kg]		3.1 / 1.4	4.4 / 2.0	6.6 / 3.0	11 / 5	17 / 8
Coupling		UN1.2	UN2.5	UN5	UN10	UN20

[Included parts & accessories : surge protector]

[1" = 25.4mm]

Ogura Industrial
100 Randolph Rd.
Somerset, NJ 08875

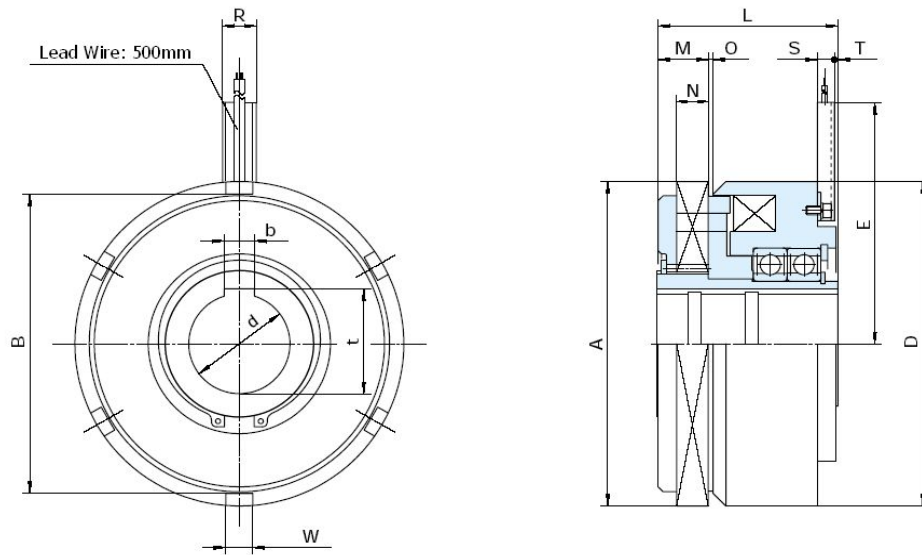
www.ogura-clutch.com
info@ogura-clutch.com
(732) 271-7361

MDC

Dry-Type Multiple-Disk EM Clutch

Types: 40, 80, 160, 250, 320, 450, 600

[EM: Electromagnet]

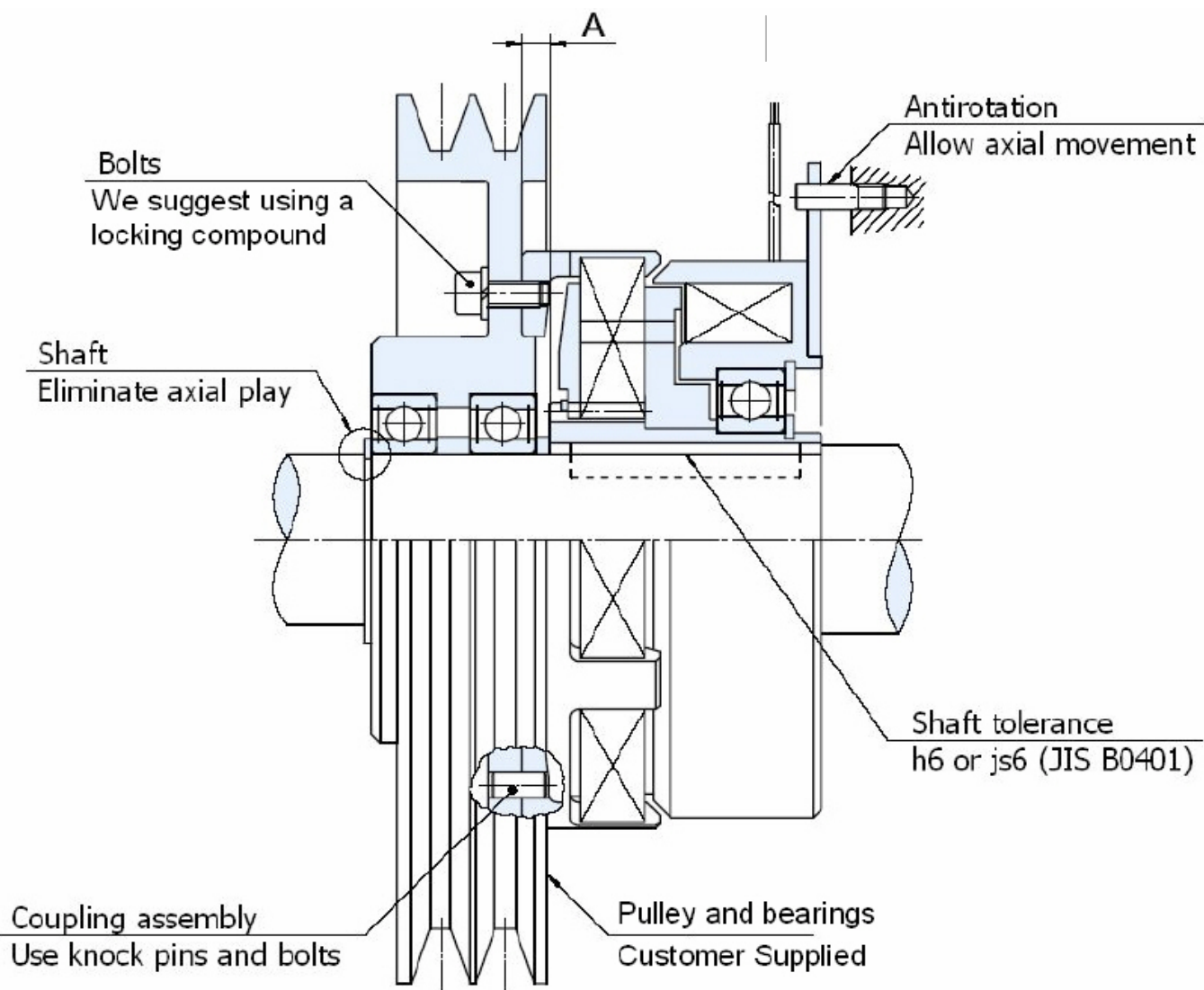


MDC		40	80	160	250	320	450	600
Dynamic Torque [ft-lbs / N-m]		295 / 400	590 / 800	1180 / 1600	1844 / 2500	2360 / 3200	3319 / 4500	4425 / 6000
Static Torque [ft-lbs / N-m]		413 / 560	826 / 1120	1652 / 2240	2581 / 3499	3304 / 4480	4647 / 6300	6196 / 8400
Coil (20°C)	Voltage [DC-V]	24						
	Current [A]	2	2.5	3.7	4.6	5.1	7.3	6.2
	Resistance [Ω]	12	9.6	6.5	5.2	4.7	3.3	3.9
	Wattage [W]	50	60	90	110	125	175	150
Armature Pull-In Time [ms]		140	220	250	320	380	500	750
Torque Build-Up Time [ms]		290	610	700	810	930	1200	1500
Torque Decay Time [ms]		150	160	160	200	300	450	650
Max Allowable Speed [rpm]		550	450	400	350	300	250	200
Moment of Inertia (J) [kg-cm ²]	Hub	249	715	2070	3580	5400	10500	15500
	Outer Disc	24	97	340	590	930	1700	3800
Total Energy Until Life [J]		25.0 x 10 ⁷	35.0 x 10 ⁷	68.3 x 10 ⁷	88.3 x 10 ⁷	100.0 x 10 ⁷	141.7 x 10 ⁷	160.0 x 10 ⁷
Max Work Rate [W]		97	153	283	450	633	933	1417
Bore [mm]	dH7	60	70	90	100	110	120	140
Key Way [mm]	bE9	18	20	25	28	28	32	35
	t+0.2/-0	63	75	95	106.5	119	130	151
Dimensions [mm]	A	195	235	290	325	350	400	440
	B	180	218	265	300	320	363.5	400
	D	195	235	290	324	350	392	428
	E	145	160	200	220	230	250	270
	L	107	135	170	185	210	220	255
	M	30.2	40	49	55	59.7	63	80
	N	18.7	23	30.8	33.5	37.7	36.3	53
	O	3	4	5	5	10.1	10	10
	R	20	20	25	30	30	30	30
	S	10	10	18	15	15	15	15
	T	2	4	5	11	10	17	17
	W	16	22	30	40	40	50	50
	W (Qty)	6	6	6	6	6	6	8
Weight [lbs / kg]		37 / 17	71 / 32	123 / 56	174 / 79	229 / 104	309 / 140	423 / 192
Coupling		UN40	UN80	UN160	UN250	UN320	UN450	UN600

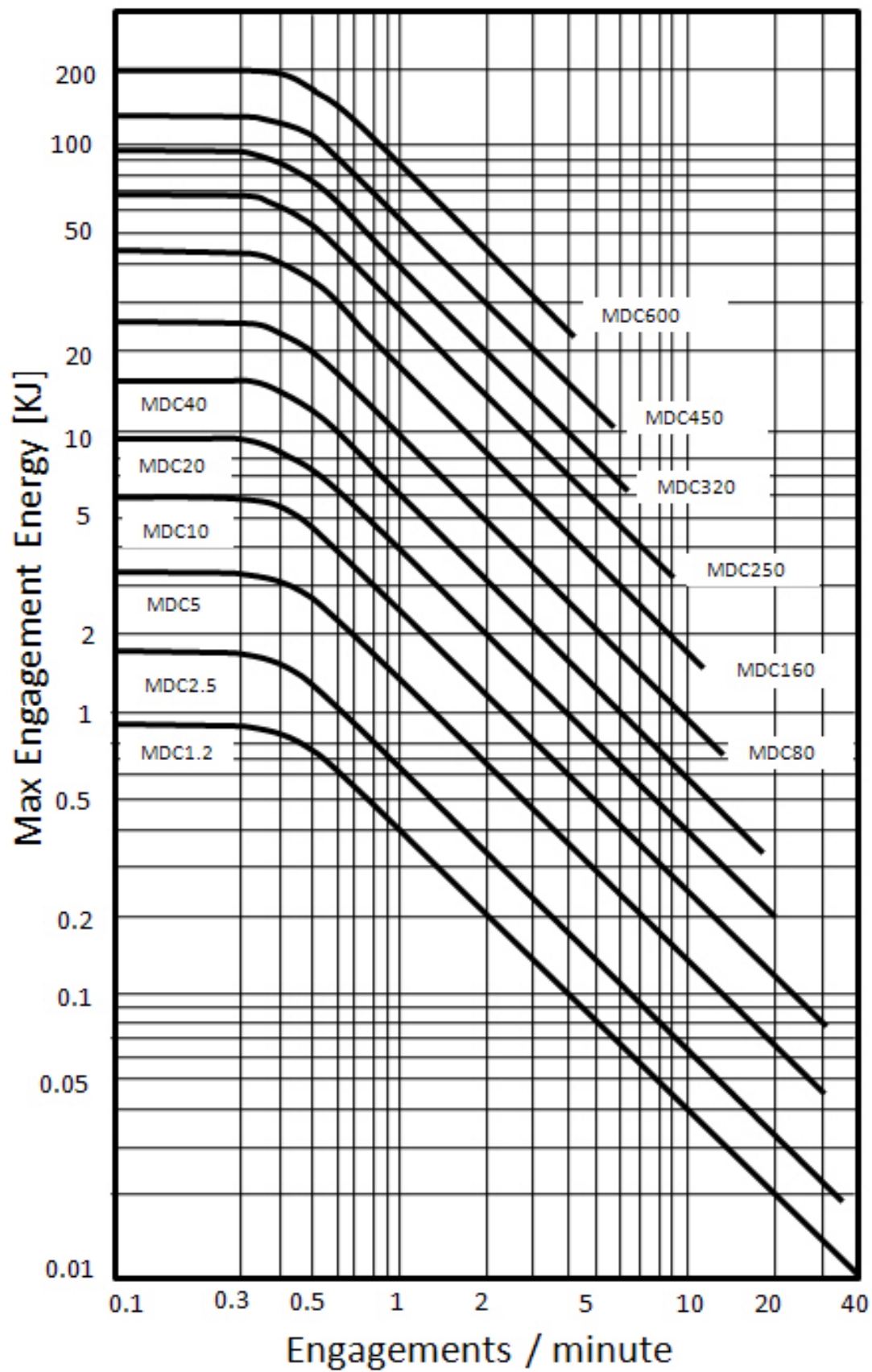
[Included parts & accessories : surge protector]

[1" = 25.4mm]

MDC: TYPICAL INSTALLATION



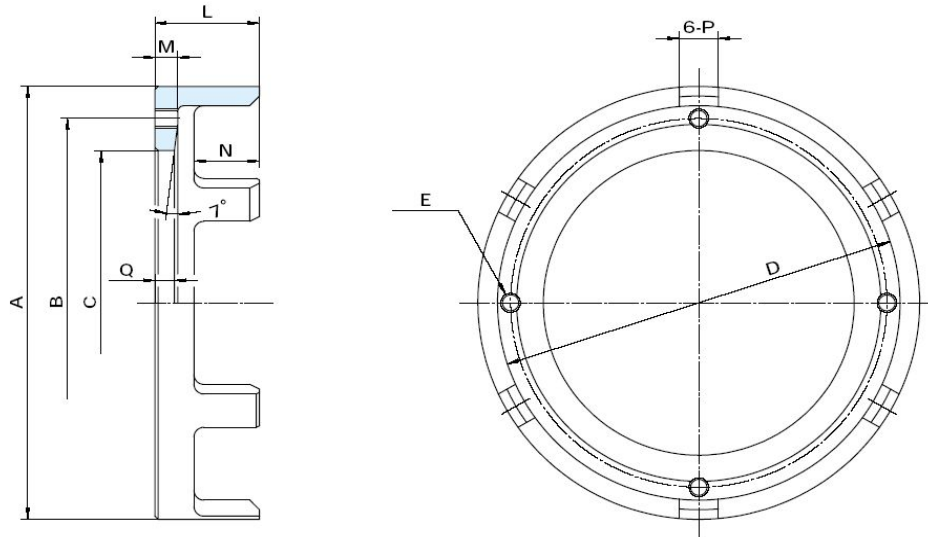
MDC	1.2	2.5	5	10	20	40
Dimension A [mm]	5.5	5.5	6	6.5	9.5	14
MDC	80	160	250	320	450	600
Dimension A [mm]	17	23	25	30	36	36



UN

Coupling for Multiple-Disk Clutch

Types: 1.2, 2.5, 5, 10, 20, 40, 80, 160, 250, 320, 450, 600



UN		1.2	2.5	5	10	20
Moment of Inertia (J) [kg-cm ²]		2.3	5	9.8	23.5	54
Dimensions [mm]	A	82	97	114	135	160
	B	68	80	95	115	135
	CH7	56	65	78	95	115
	D	74	88.5	104	123	146
	E	M5	M6	M6	M6	M8
	E (Qty)	4	4	4	6	6
	L	21.5	23	26	32	38
	M	5.5	6	6.5	7	10
	N	13	15	16	20	22
	P	8	10	10	12	12
	Q	5	5	5.5	6	9
Weight [lbs / kg]		0.33 / 0.15	0.49 / 0.22	0.77 / 0.35	1.1 / 0.5	2.4 / 1.1

UN		40	80	160	250	320	450	600
Moment of Inertia (J) [kg-cm ²]		149	365	1080	2070	3280	8150	10800
Dimensions [mm]	A	198	238	294	330	355	404	444
	B	160	200	240	260	280	320	360
	CH7	135	170	200	220	240	280	310
	D	181.5	220	267.5	304	324	368	404
	E	M10	M12	M16	M16	M18	M20	M20
	E (Qty)	6	6	6	6	6	6	8
	L	48	60	75	82	97	105	122
	M	12	15	20	20	25	30	30
	N	26	34	38	44	52	53	72
	P	16	22	30	40	40	50	50
	Q	10	13	17	17	22	27	27
Weight [lbs / kg]		4.6 / 2.1	6.6 / 3.0	16.0 / 7.3	21 / 9.5	30 / 14	44 / 20	55 / 25

[1 inch = 25.4 mm]