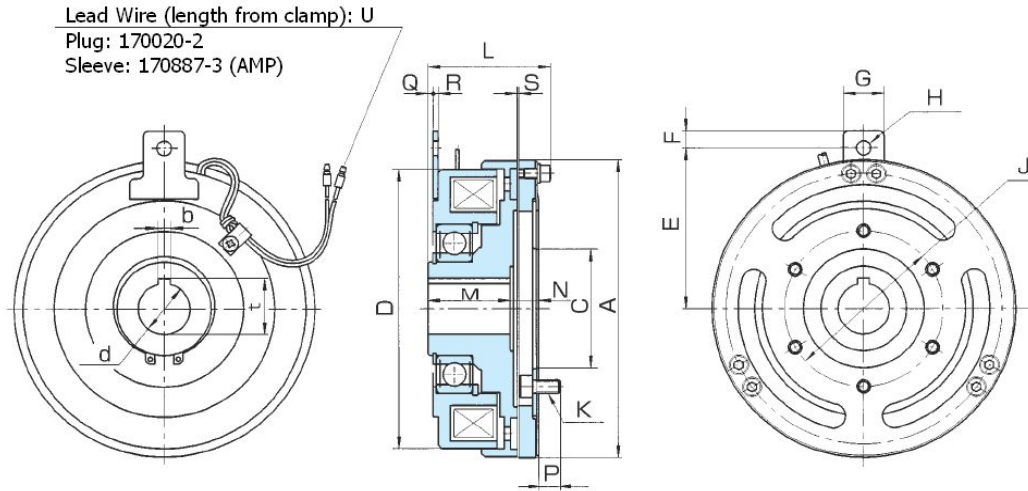


MMC

EM Clutch

Types: 5, 10, 20, 40

[EM: Electromagnet]



MMC		5E	5G	10E	10G	20E	20G	40E	40G
Static Torque [ft-lbs / N-m]		37 / 50		74 / 100		148 / 200		295 / 400	
Coil (20°C)	Voltage [DC-V]	12	24	12	24	12	24	12	24
	Current [A]	2.5	1.26	2.92	1.46	4.17	2.09	5.41	2.7
	Resistance [Ω]	4.8	19	4.11	16.4	2.88	11.5	2.22	8.9
	Wattage [W]	30		35		50		65	
Armature	Pull-In Time [ms]	50		70		80		120	
	Release Time [ms]	90		150		140		160	
Max Allowable Speed [rpm]		4000		3600		3000		3000	
Moment of Inertia (J) [kg-cm ²]	Rotor	22		73		221		550	
	Armature	18		59		143		380	
Max Air Gap Until Adjustment [mm]		1.3		1.3		1.3		1.3	
Total Energy Until Adjustment [J]		13×10^7		20×10^7		28×10^7		40×10^7	
Total Energy Until Life [J]		33×10^7		50×10^7		71×10^7		100×10^7	
Bore [mm]		dH7		25		30		40	
Key Way [mm]	bE9	7		7		10		15	
	t+0.25/-0	28		33		43.5		55	
Dimensions [mm]	A	141		176		221		261	
	CH9	52		70		92		115	
	D	133		165		207.2		243	
	E	80		95		120		140	
	F	6		10		10		12	
	G	16		24		24		28	
	H	5.5		8.5		8.5		10.5	
	J	70		92		118		142	
	K	6xM6-12		6xM8-16		6xM10-20		8xM10-20	
	L	56.1		71.3		79.8		90.2	
	M	35		48		53		65	
	N	15.5		16.5		18		16.2	
	P	9.2		12.3		15.3		15.1	
	Q	2		3.1		3.1		6.8	
	R	2		2.9		2.9		3.2	
	S	0.3~0.5		0.3~0.5		0.4~0.6		0.5~0.7	
	U	400		370		410		380	
Weight [lbs / kg]		7.5 / 3.4		15.0 / 6.8		26.0 / 11.8		43.0 / 19.5	

[Included parts & accessories : bolts, plug 170021-2, sleeve 170889-2 (AMP), surge protector]

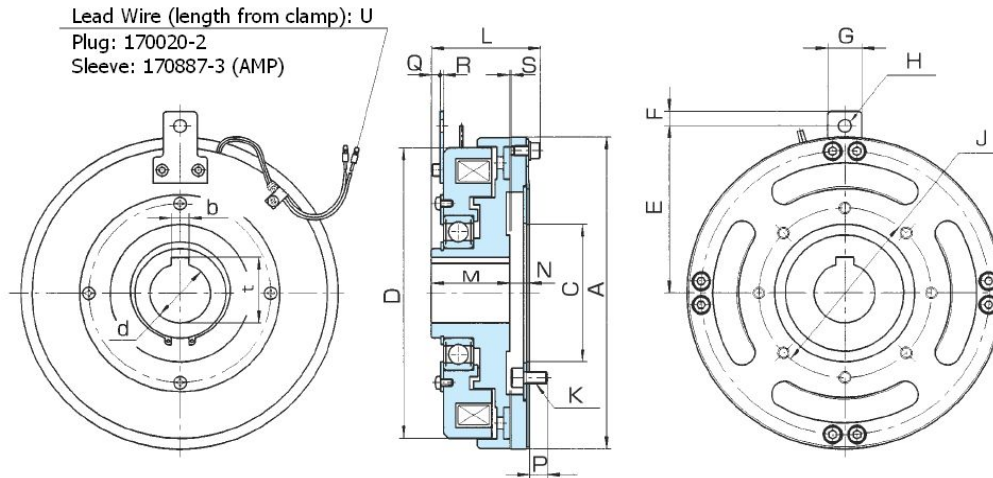
[1" = 25.4mm]

MMC

EM Clutch

Types: 70, 100, 200

[EM: Electromagnet]

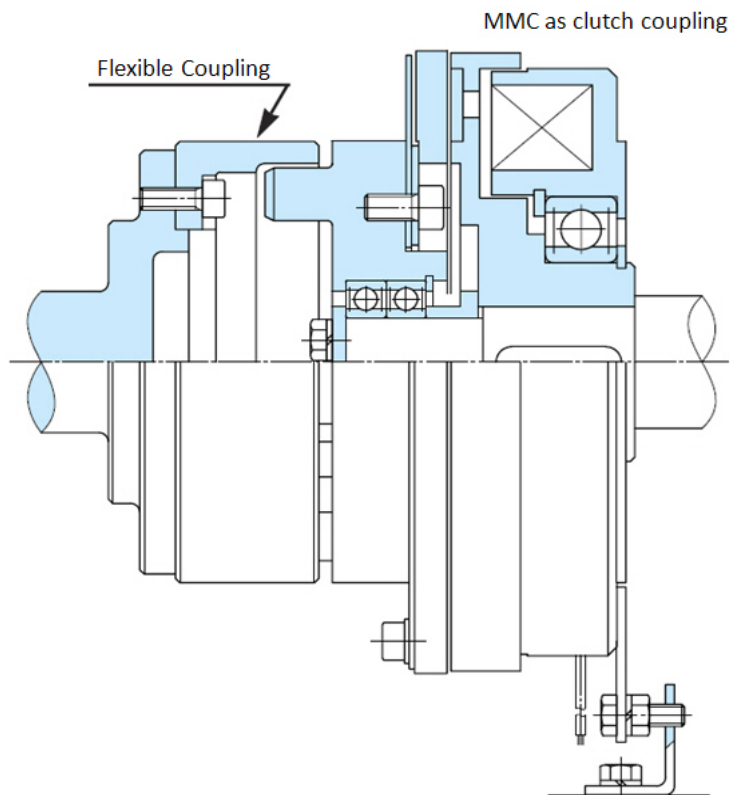
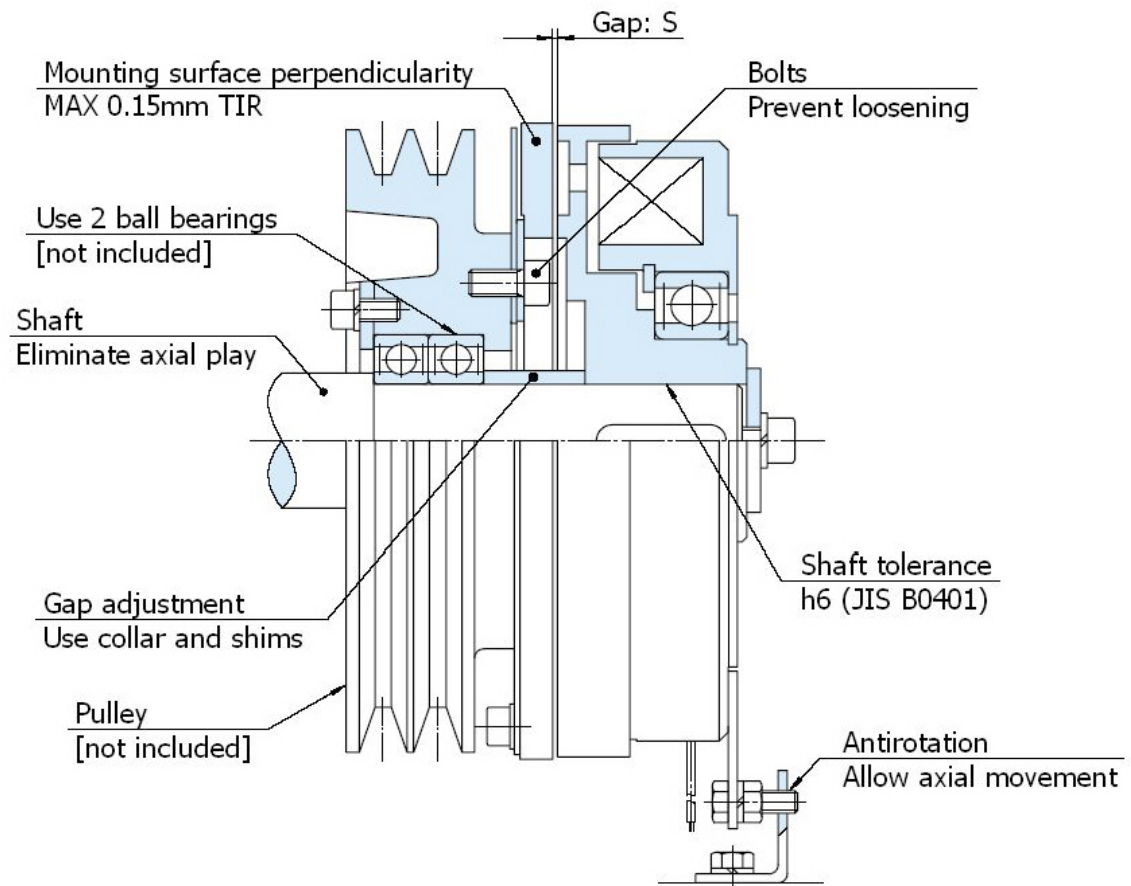


MMC		70E	70G	100E	100G	200G
Static Torque [ft-lbs / N-m]		516 / 700		738 / 1000		1475 / 2000
Coil (20°C)	Voltage [DC-V]	12	24	12	24	24
	Current [A]	7.5	3.75	8.33	4.14	6.15
	Resistance [Ω]	1.6	6.4	1.44	5.8	3.9
	Wattage [W]	90		100		150
Armature	Pull-In Time [ms]	180		200		400
	Release Time [ms]	180		200		400
Max Allowable Speed [rpm]		2500		1800		1600
Moment of Inertia (J) [kg-cm ²]	Rotor	1030		2800		6300
	Armature	980		2100		3800
Max Air Gap Until Adjustment [mm]		1.3		1.6		1.6
Total Energy Until Adjustment [J]		58 x 10 ⁷		80 x 10 ⁷		88 x 10 ⁷
Total Energy Until Life [J]		140 x 10 ⁷		200 x 10 ⁷		220 x 10 ⁷
Bore [mm]		60		70		80
Key Way [mm]	bH7	15		18		20
	t+0.25/-0	65		76		86
Dimensions [mm]	A	316		381		400
	CH9	150		185		185
	D	293		360		375
	E	170		210		220
	F	13		13		13
	G	30		30		40
	H	13		13		13
	J	180		220		220
	K	8xM10-20		8xM12-25		8xM16-30
	L	100.4		111.3		144.1
	M	70		80		102
	N	19		20		28.8
	P	14.8		19.8		26
	Q	2.8		14.8		5
	R	3.2		3.2		5
	S	0.6~0.8		0.7~0.9		0.7~0.9
	U	370		340		300
Weight [lbs / kg]		71 / 32		104 / 47		174 / 79

[Included parts & accessories : bolts, plug 170021-2, sleeve 170889-2 (AMP), surge protector]

[1" = 25.4mm]

MMC: TYPICAL INSTALLATION



MMC: TORQUE CHARACTERISTIC & MAX WORK RATE

