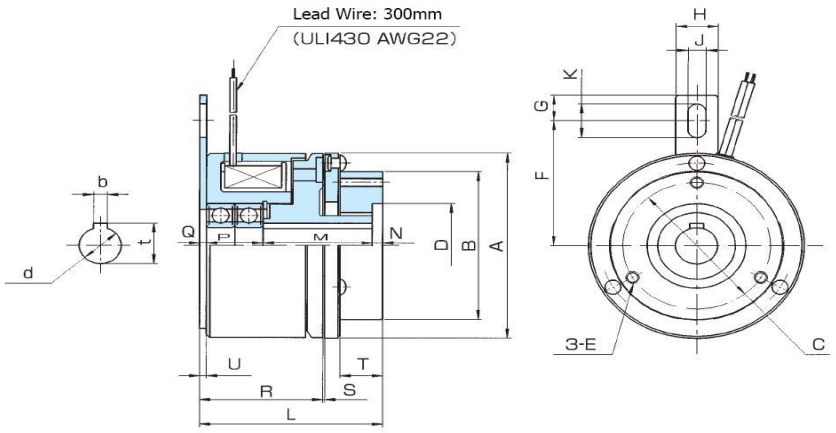
AMC

Micro EM Clutch

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

[EM: Electromagnet]



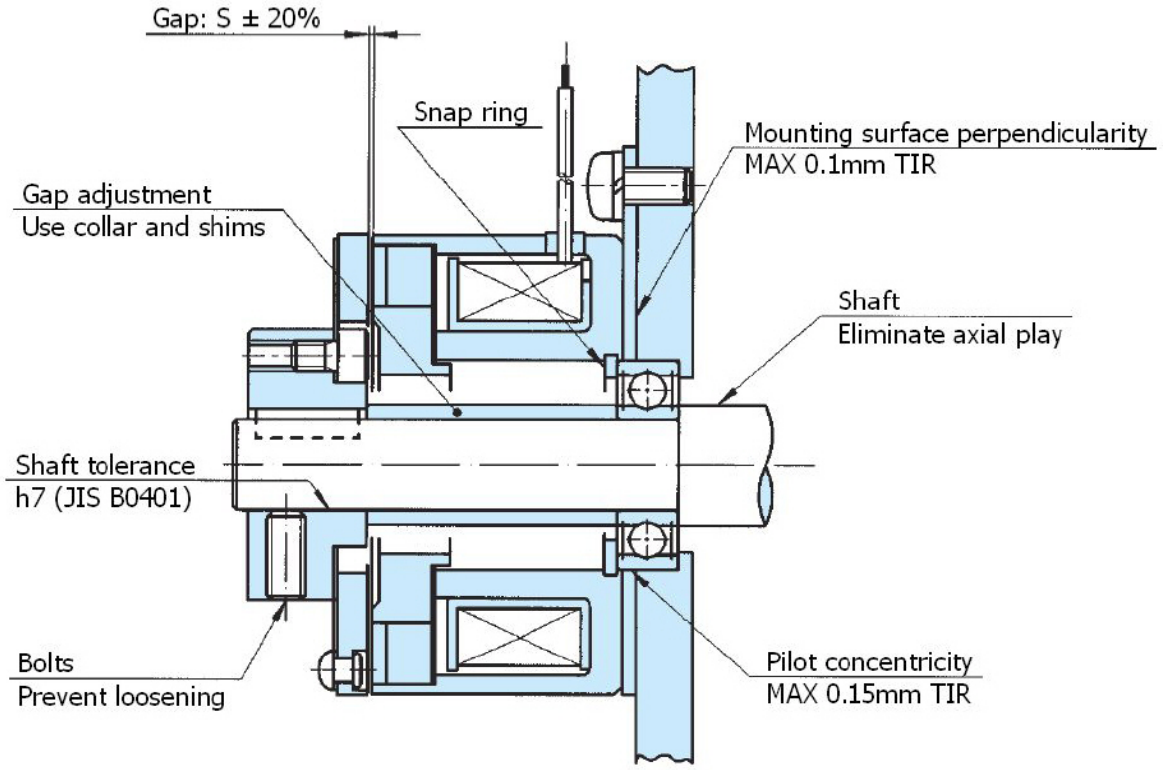
AMC		2.5	5	10	20	40	80
Static Torque [in-lbs / N-m]		2.2 / 0.25	4.4 / 0.5	8.9 / 1	18 / 2	35 / 4	71 / 8
Coil (20°C)	Voltage [DC-V]	24					
	Current [A]	0.13	0.17	0.25	0.26	0.38	0.48
	Resistance [Ω]	192	144	96	94	64	50
	Wattage [W]	3	4	6	6.1	9	11.5
	Time Constant [ms]	5	8	11	13	26	33
Armature	Pull-In Time [ms]	11	12	18	20	35	39
	Release Time [ms]	16	20	25	25	45	48
Torque Build-Up Time [ms]		15	17	27	35	55	60
Max Allowable Speed [rpm]		3600	3600	3600	3600	3600	3600
Moment of Inertia (J) [kg-cm²]	Rotor	0.048	0.075	0.145	0.29	0.715	1.26
	Armature	0.04	0.06	0.128	0.26	0.618	1.22
Max Air Gap Until Adustment [mm]		0.4	0.45	0.55	0.6	0.7	0.7
Total Energy Until Adjustment [J]		2.8×10^6	4.5×10^6	7.5×10^6	1.2×10^7	1.8×10^7	2.7×10^7
Total Energy Until Life [J]		8.7×10^6	1.4×10^7	2.3×10^7	3.8×10^7	5.8×10^7	8.5×10^7
Max Work Rate [W]		18	20	26	30	40	55
Bore [mm]	d_{H7}	6	6	8	10	12	15
Key Way [mm]	b_{E9}	2	2	2.5	4	4	5
	$t_{+0.1/-0}$	6.9	6.9	8.9	11.5	13.5	17
Dimensions [mm]	A	35	40	46	51	61	70
	B	26.5	26.5	35	44	49	54
	C	22	22	30	38	42	46
	D_{H8}	15	15	22	26	28	32
	E	M3	M3	M3	M4	M4	M4
	F	28.5	28.5	36	38	41.5	41.5
	G	6.5	6.5	7	7	8.5	8.5
	H	8	8	10	10	12	12
	J	3.2	3.2	4.2	4.2	5.2	5.2
	K	7.5	7.5	9.5	9.5	11.2	11.2
	L	32.6	32.6	40.9	45.1	52	54
	M	19	19	22.3	24.5	31	31
	N	2	2	2.5	3	3	3
	P	10	10	14	16	16	18
	Q	1.6	1.6	2.1	1.6	2	2
	R	22.4	22.4	28.1	30.6	35	36
	S	0.2	0.2	0.25	0.25	0.3	0.3
	T	7.3	7.3	9.8	9.5	12.2	12.1
	U	1.6	1.6	1.6	1.6	2	2
Recommended Hub Bearing		696ZZ	696ZZ	608ZZ	6000ZZ	6001ZZ	6002ZZ
Weight [lbs / kg]		0.31 / 0.14	0.41 / 0.19	0.66 / 0.30	0.9 / 0.4	1.6 / 0.7	2.3 / 1.1

[1" = 25.4mm]

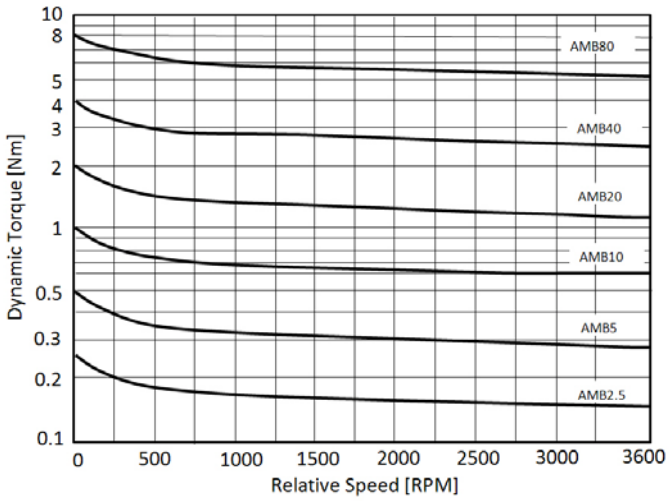
Ogura Industrial Corp.
100 Randolph Rd.
Somerset, NJ 08875

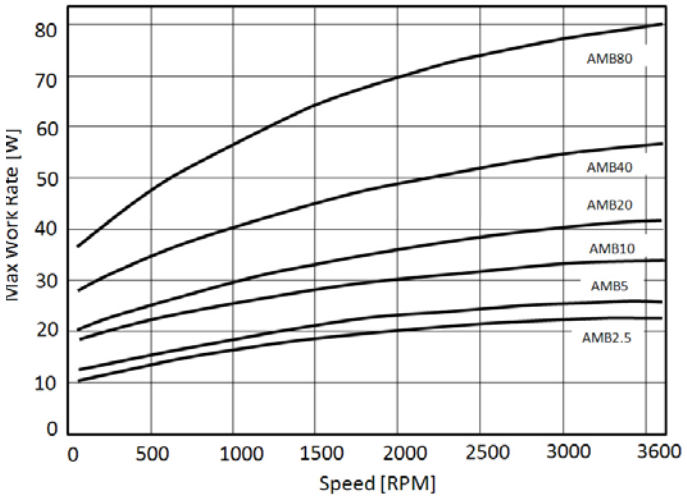
www.ogura-clutch.com
info@ogura-clutch.com
(732) 271 - 7361

AMB: TYPICAL INSTALLATION



AMB: TORQUE CHARACTERISTIC & MAX WORK RATE





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