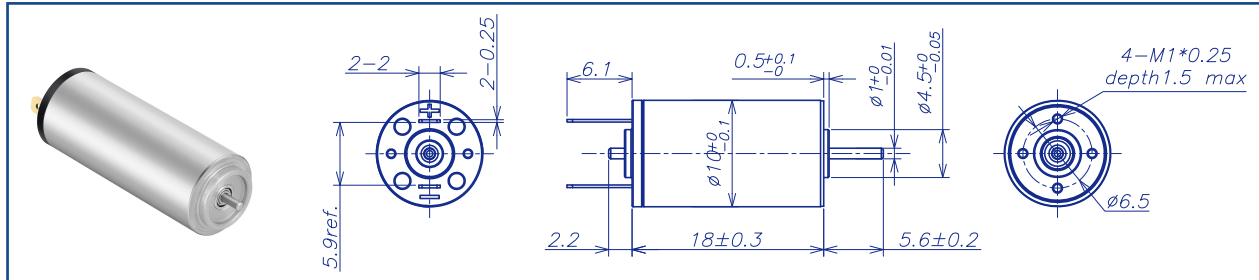


AM-CL1018MAE SERIES



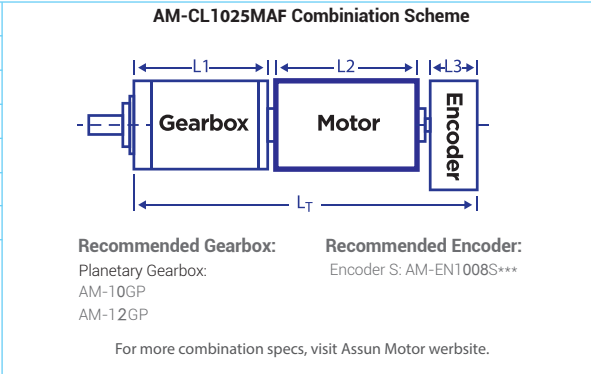
Motor Model		Precious metal brush				Ball bearings		
		0113	0313	0413	0613	0913	1212	
Nominal voltage	V	1.5	3	4.5	6	9	12	
No load speed	±12% rpm	11500	12900	12500	12500	12500	12400	
No load current	Max 150% mA	82	43	27	20	12	10	
Recommend limit for continuous operating	Max cont. torque	mN.m	0.91	0.92	0.92	0.91	0.9	
	Rated speed	rpm	4430	4590	4170	4000	4830	
	Rated current	mA	900	500	310	220	150	
	Rated power	W	1.3	1.3	1.3	1.3	1.3	
Starting current	mA	1300	740	460	330	210	160	
Stall torque	mN.m	1.4	1.5	1.4	1.35	1.3	1.3	
Maximum power output	W	2.64	2.64	5.4	4.3	4.8	2.64	
Maximum efficiency	%	58	58	58	57	56	56	
Terminal resistance	±12% Ω	1.0	4.0	9.7	17.5	41.5	74.5	
Inductance	(1KHZ) mH	0.01	0.05	0.12	0.21	0.18	0.86	
Mechanical time constant	ms	7.24	7.19	7.21	7.22	7.27	7.26	
Moment of inertia	gcm ²	0.077	0.077	0.076	0.073	0.071	0.071	
Torque constant	mN.m/A	1.07	2.07	3.2	4.27	6.4	8.53	
Speed constant	rpm/V	8950	4600	2980	2240	1490	1120	
Speed/ torque gradient	rpm/mN.m	9030	8970	9060	9400	9750	9830	
Weight	g	7	7	7	7	7	7	

ADDITIONAL INFORMATION

Motor thermal resistance:	37.6K/W	Motor thermal time constant:	156S
Axial (dynamic):	0.5 N	Radial (5mm from mounting face):	1.5 N
Press-fit force (static):	0.5 N	Max allowable screw depth into flange:	1.2mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play	Preset
Maximum winding temperature:	155°C	Ambient temperature range:	-40 to 85°C
Standard rear shaft diameter:	1 mm	Standard rear shaft length "L":	0/2.2 mm

Total Length (Gearbox and Motor): L _T =L1+L2+ L3				
L1:10GP	L1:12GP		L2:CL10	L3: EN10S
6.8	15.4		25.2	8
10	19.6			
13.2	23.8			
16.4	28			
19.6	32.2			

Remarks: Client can choose gearbox and encoder to match with this motor. Some combinations are listed here for reference.



Motor data tested at 25°C. Motor operation exceeding continuous limits will reduce life or result in damage. At elevated ambient temperatures, load current must be reduced.

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