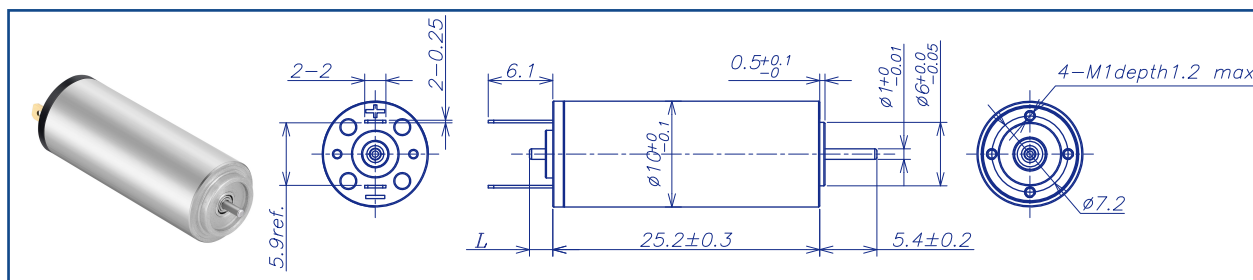


AM-CL1025MAE SERIES



		Precious metal brush				Ball bearings		
Motor Model			0112	0312	0412	0612	0912	1212
Nominal voltage	V		1.5	3	4.5	6	9	12
No load speed	±12% rpm		11500	12100	11900	12100	11900	12500
No load current	Max 150% mA		70	38	25	19	12	10
Recommend limit for continuous operating	Max cont. torque	mN.m	1	2	2.1	1.9	2	2.1
	Rated speed	rpm	9100	6830	7010	6540	6680	6050
	Rated current	mA	920	920	640	430	300	205
	Rated power	W	1	2	2.2	1.9	2	1.3
Starting current	mA		4200	2000	1500	930	680	458
Stall torque	mN.m		5.1	4.8	4.5	4.5	4.5	5.1
Maximum power output	W		1.5	3.1	3.3	2.9	3	1.3
Maximum efficiency	%		75	75	77	74	75	81
Terminal resistance	±12% Ω		0.35	1.4	2.8	6.3	13	25.9
Inductance	(1KHZ) mH		0.01	0.02	0.04	0.07	0.18	0.241
Mechanical time constant	ms		3.68	3.57	3.54	3.58	3.56	3.7
Moment of inertia	gcm ²		0.15	0.13	0.15	0.11	0.13	0.14
Torque constant	mN.m/A		1.21	2.31	3.52	4.61	7.04	11.1
Speed constant	rpm/V		7870	4140	2710	2070	1360	1068
Speed/ torque gradient	rpm/mN.m		2300	2590	2240	2880	2550	2450
Weight	g		11	11	11	11	11	11

ADDITIONAL INFORMATION

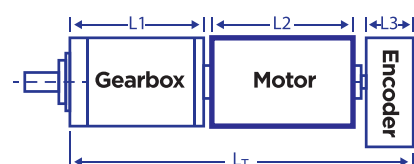
Motor thermal resistance:	36.1K/W	Motor thermal time constant:	151S
Axial (dynamic):	0.5 N	Radial (5mm from mounting face):	1.5 N
Press-fit force (static):	0.5 N	Max allowable screw depth into flange:	1.2mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play	Preset
Maximum winding temperature:	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.

AM-CL1025MAE Combination Scheme



Recommended Gearbox:

Planetary Gearbox:
AM-10GP
AM-12GP

Recommended Encoder:

Encoder S: AM-EN1008S***

For more combination specs, visit Assun Motor website.

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.

Download datasheet: <https://assunmotor.com/documents-download>

Visit Our Website and Online Shop at <https://assunmotor.com> Contact: info@assunmotor.com