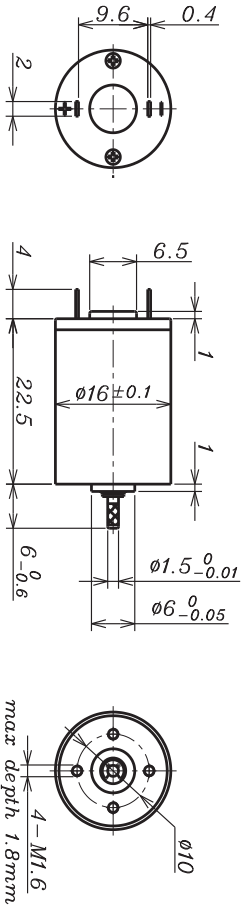




DC Coreless Motor AM-CL1623MA Series

ASSUN MOTOR

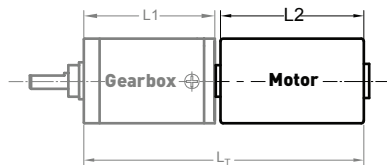
2015 edition. Specifications are subject to change without notice.



		PRECIOUS METAL BRUSH			BALL BEARING			
MOTOR MODEL		0109	0108	0310	0308	0610	0608	1212
NOMINAL VOLTAGE	V	1.5	1.5	3	3	6	6	12
NO LOAD SPEED ±12%	rpm	9100	7850	10130	7690	9875	7574	12440
NO LOAD CURRENT Max 150%	mA	60	55	35	23	22	18	14
	mN.m	1.2	1.3	1.9	2.1	2.2	2.1	2.1
Recommend Limit for Continuous Operating	rpm	7596	6106	7674	5142	7202	4861	9839
	mA	850	800	700	600	400	300	250
	W	1.0	0.9	1.5	1.1	1.6	1.1	2.2
STARTING CURRENT	mA	4839	3409	2778	1765	1418	805	1143
STALL TORQUE	mN.m	7	6	8	6	8	6	10
MAXIMUM POWER OUTPUT	W	1.8	1.2	2.0	1.3	2.1	1.2	3.3
MAXIMUM EFFICIENCY	%	79	76	79	78	77	75	79
TERMINAL RESISTANCE PHASE TO PHASE ±12%	Ω	0.31	0.44	1.08	1.7	4.23	7.45	10.5
INDUCTANCE (1kHz)	mH	0.001	0.006	0.038	0.058	0.15	0.27	0.41
MECHANICAL TIME CONSTANT	ms	17.6	18.7	19.0	17.2	16.9	17.7	16.9
MOMENT OF INERTIA	gcm²	1.37	1.37	1.37	1.37	1.37	1.37	1.33
TORQUE CONSTANT	mN.m/A	1.6	1.8	2.8	3.7	5.7	7.4	9.1
SPEED CONSTANT	rpm/V	6143	5319	3420	2597	1672	1291	1050
SPEED/TORQUE GRADIENT	rpm/mN.m	1225	1304	1323	1201	1238	1301	1211
WEIGHT	g	18.6	18.6	18.6	18.4	18.4	18.4	18.5

ADDITIONAL INFORMATION			
MAXIMUM ROLLING BEARING LOADS			
AXIAL (DYNAMIX)	0.8 N	RADIAL (5MM FROM HEAD FACE)	1.2 N
PRESS-FIT FORCE	26N	L: MAX ALLOWABLE SCREW DEPTH INTO FLANGE	1.8 mm
MAXIMUM RADIAL PLAY	≤0.02mm	AXIAL PLAY:	PRESET
MAXIMUM WINDING TEMPERATURE	85°C	AMBIENT TEMPERATURE RANGE:	-30 to 65°

AM-CL1623MA COMBINATION SCHEME



Recommend Gearbox:
Planetary Gearbox:
AM-16P

TOTAL LENGTH (GEARBOX AND MOTOR): L _T = L ₁ + L ₂ + L ₃		
L1:16P	L2:EN16	L3
17.9	22.50	
21.8		
25.2		
28.6		
32.0		

For more gearbox specs, see Assun Motor website.

REMARKS	
<p>Clients can choose gearbox and encoder to match with this motor. Some combinations are listed here for reference.</p>	<p>Motor Data Tested at 25°. Motor Operation exceeds continuous limits of operating range will compromise the life of the device.</p>