



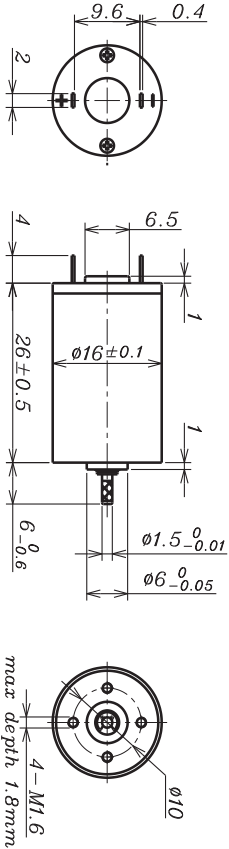
# DC Coreless Motor AM-CL1626MA Series

**ASSUN MOTOR**

2015 edition. Specifications are subject to change without notice.

## PRECIOUS METAL BRUSH

## BALL BEARING



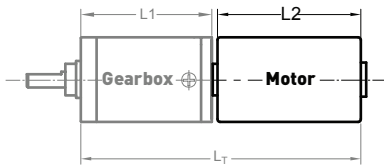
MOTOR MODEL		0109	0308	0310	0608	0610	1210	1212	2414
<b>NOMINAL VOLTAGE</b>	<b>V</b>	1.5	3.0	3.0	6.0	6.0	12.0	12.0	24.0
<b>NO LOAD SPEED ±12%</b>	<b>rpm</b>	9350	8256	10340	8129	10544	10691	12075	14306
<b>NO LOAD CURRENT Max 150%</b>	<b>mA</b>	68	25	25	10	18	10	9.2	12
	<b>mN.m</b>	1.2	2.5	2.1	2.7	1.8	2.5	2.3	2.2
Recommend Limit for Continuous Operating	<b>rpm</b>	8117	5736	8594	6001	9134	8426	10247	12476
	<b>mA</b>	850	750	800	400	350	250	250	150
	<b>W</b>	1.0	1.5	1.9	1.7	1.7	2.2	2.4	2.9
<b>STARTING CURRENT</b>	<b>mA</b>	6000	2400	4615	1500	2500	1143	1600	1091
<b>STALL TORQUE</b>	<b>mN.m</b>	9	8	13	10	13	12	15	17
<b>MAXIMUM POWER OUTPUT</b>	<b>W</b>	2.2	1.8	3.4	2.2	3.7	3.4	4.7	6.4
<b>MAXIMUM EFFICIENCY</b>	<b>%</b>	80	81	86	84	84	82	85	80
<b>TERMINAL RESISTANCE PHASE TO PHASE ±12%</b>	<b>Ω</b>	0.25	1.25	0.65	4.0	2.4	10.5	7.5	22
<b>INDUCTANCE (1kHz)</b>	<b>mH</b>	0.03	0.031	0.16	0.15	0.095	0.4	0.29	0.85
<b>MECHANICAL TIME CONSTANT</b>	<b>ms</b>	14.2	12.7	10.3	9.8	9.9	11.2	10.1	10.5
<b>MOMENT OF INERTIA</b>	<b>gcm<sup>2</sup></b>	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
<b>TORQUE CONSTANT</b>	<b>mN.m/A</b>	1.5	3.4	2.8	7.0	5.4	10.6	9.4	15.8
<b>SPEED CONSTANT</b>	<b>rpm/V</b>	63053	2781	3465	1364	1770	899	1012	603
<b>SPEED/TORQUE GRADIENT</b>	<b>rpm/mN.m</b>	1041	1012	817	779	787	888	804	837
<b>WEIGHT</b>	<b>g</b>	22.6	22.4	22.4	22.4	22.4	22.1	22.2	22.4

## ADDITIONAL INFORMATION

MAXIMUM ROLLING BEARING LOADS

<b>AXIAL (DYNAMIX)</b>	3.4 N	<b>RADIAL ( 5MM FROM HEAD FACE)</b>	2.6 N
<b>PRESS-FIT FORCE</b>	36N	<b>L: MAX ALLOWABLE SCREW DEPTH INTO FLANGE</b>	1.8 mm
<b>MAXIMUM RADIAL PLAY</b>	≤0.02mm	<b>AXIAL PLAY:</b>	PRESET
<b>MAXIMUM WINDING TEMPERATURE</b>	85°C	<b>AMBIENT TEMPERATURE RANGE:</b>	-30 to 65°C

## AM-CL1626MA COMBINATION SCHEME



Recommend Gearbox:  
Planetary Gearbox:  
AM-16P

**TOTAL LENGTH (GEARBOX AND MOTOR):  $L_T = L_1 + L_2 + L_3$**

L1:16P	L2:CL16	L3
17.9	26.0	
21.8		
25.2		
28.6		
32.0		

For more gearbox specs, see Assun Motor website.

## REMARKS

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

Motor Data Tested at 25°. Motor Operation exceeds continuous limits of operating range will compromise the life of the device.

**ASSUN MOTOR**

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