



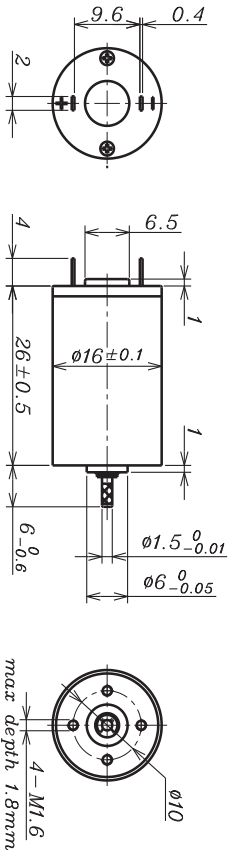
DC Coreless Motor AM-CL1626MA Series

ASSUN MOTOR

2015 edition. Specifications are subject to change without notice.

PRECIOUS METAL BRUSH

BALL BEARING



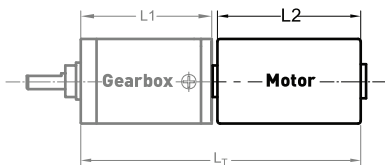
MOTOR MODEL		0109	0308	0310	0608	0610	1210	1212	2414
NOMINAL VOLTAGE	V	1.5	3.0	3.0	6.0	6.0	12.0	12.0	24.0
NO LOAD SPEED ±12%	rpm	9350	8256	10340	8129	10544	10691	12075	14306
NO LOAD CURRENT Max 150%	mA	68	25	25	10	18	10	9.2	12
	mN.m	1.2	2.5	2.1	2.7	1.8	2.5	2.3	2.2
Recommend Limit for Continuous Operating	rpm	8117	5736	8594	6001	9134	8426	10247	12476
	mA	850	750	800	400	350	250	250	150
	W	1.0	1.5	1.9	1.7	1.7	2.2	2.4	2.9
STARTING CURRENT	mA	6000	2400	4615	1500	2500	1143	1600	1091
STALL TORQUE	mN.m	9	8	13	10	13	12	15	17
MAXIMUM POWER OUTPUT	W	2.2	1.8	3.4	2.2	3.7	3.4	4.7	6.4
MAXIMUM EFFICIENCY	%	80	81	86	84	84	82	85	80
TERMINAL RESISTANCE PHASE TO PHASE ±12%	Ω	0.25	1.25	0.65	4.0	2.4	10.5	7.5	22
INDUCTANCE (1kHz)	mH	0.03	0.031	0.16	0.15	0.095	0.4	0.29	0.85
MECHANICAL TIME CONSTANT	ms	14.2	12.7	10.3	9.8	9.9	11.2	10.1	10.5
MOMENT OF INERTIA	gcm²	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
TORQUE CONSTANT	mN.m/A	1.5	3.4	2.8	7.0	5.4	10.6	9.4	15.8
SPEED CONSTANT	rpm/V	63053	2781	3465	1364	1770	899	1012	603
SPEED/TORQUE GRADIENT	rpm/mN.m	1041	1012	817	779	787	888	804	837
WEIGHT	g	22.6	22.4	22.4	22.4	22.4	22.1	22.2	22.4

ADDITIONAL INFORMATION

MAXIMUM ROLLING BEARING LOADS

AXIAL (DYNAMIX)	3.4 N	RADIAL (5MM FROM HEAD FACE)	2.6 N
PRESS-FIT FORCE	36N	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°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.

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