



DC Coreless Motor AM-CL2232GA/B Series

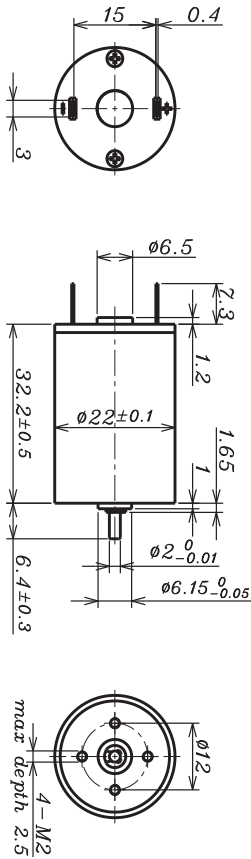
ASSUN MOTOR

2015 edition. Specifications are subject to change without notice.

GRAPHITE BRUSH

BALL BEARING

MOTOR MODEL		0609	0606	1209	1206	2409	2406
NOMINAL VOLTAGE	V	6	6	12	12	24	24
NO LOAD SPEED ±12%	rpm	8622	6285	8683	5735	9183	6132
NO LOAD CURRENT Max 150%	mA	87	51	45	25	26	19
	mN.m	5.0	6.7	7.3	8.4	7.3	8.5
Recommend Limit for Continuous Operating	rpm	7735	5093	7385	4229	7988	4627
	mA	850	800	600	450	320	250
	W	4.1	3.6	5.6	3.7	6.1	4.1
STARTING CURRENT	mA	7500	4918	5556	2752	2330	1412
STALL TORQUE	mN.m	49	36	50	32	56	34
MAXIMUM POWER OUTPUT	W	11.0	5.8	11.3	4.8	13.4	5.5
MAXIMUM EFFICIENCY	%	80	79	80	77	80	74
TERMINAL RESISTANCE PHASE TO PHASE ±12%	Ω	0.8	1.5	3.1	7.3	10.5	25.0
INDUCTANCE (1kHz)	mH	0.36	0.09	0.23	0.44	0.7	1.5
MECHANICAL TIME CONSTANT	ms	9.5	9.5	9.3	9.7	8.9	9.6
MOMENT OF INERTIA	gcm²	5.15	5.13	5.15	5.15	5.15	5.14
TORQUE CONSTANT	mN.m/A	6.6	9.0	13.1	19.7	24.7	36.6
SPEED CONSTANT	rpm/V	1454	1061	728	485	387	261
SPEED/TORQUE GRADIENT	rpm/mN.m	177.1	1176.8	172.2	180.0	164.7	117.9
WEIGHT	g	57.0	57.1	56.5	57.0	56.8	57.0

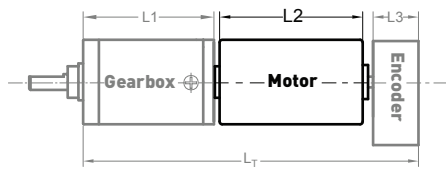


ADDITIONAL INFORMATION

MAXIMUM ROLLING BEARING LOADS

AXIAL (DYNAMIX)	5.9 N	RADIAL (5MM FROM HEAD FACE)	8.0 N
PRESS-FIT FORCE	16(90) N	L: MAX ALLOWABLE SCREW DEPTH INTO FLANGE	2.5 mm
MAXIMUM RADIAL PLAY	≤0.02mm	AXIAL PLAY:	PRESET
MAXIMUM WINDING TEMPERATURE	85°C	AMBIENT TEMPERATURE RANGE:	-30 to 65°C

AM-CL2232GA/B COMBINATION SCHEME



Recommend Gearbox:
Planetary Gearbox:
AM-22P

Recommend Encoder:
Encoder S: AM-EN22-S***
2-3 Channels

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

L1:22P	L2: CL22	L3:EN22-S
22.4	32.0	10.7
27.5		
32.5		
37.5		
42.6		

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.