



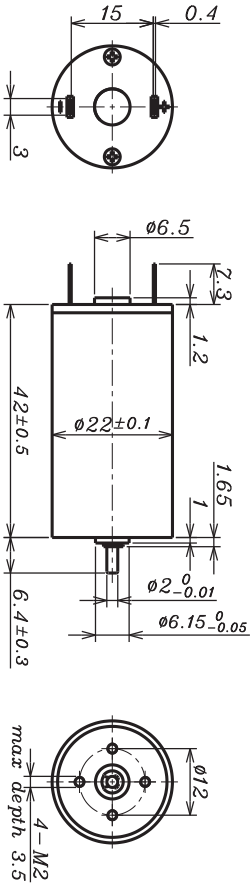
DC Coreless Motor AM-CL2242GA/B Series

ASSUN MOTOR

2015 edition. Specifications are subject to change without notice.

GRAPHITE BRUSH

BALL BEARING



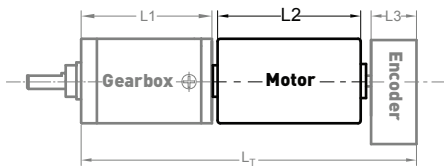
MOTOR MODEL		0609	0606	1209	1206	2408	2406	4810	4805
NOMINAL VOLTAGE	V	6	6	12	12	24	24	48	48
NO LOAD SPEED ±12%	rpm	9020	5720	9596	5818	8100	6260	9732	5260
NO LOAD CURRENT Max 150%	mA	130	78	77	45	19	22	18	8.5
Recommend Limit for Continuous Operating	mN.m	7.4	11.1	7.4	11.8	12.1	11.9	9.9	14.8
	rpm	8453	5019	9044	5075	7340	5501	9105	4398
	mA	1300	1200	700	650	450	350	230	180
	W	6.5	5.9	7.0	6.3	9.3	6.9	9.5	6.8
STARTING CURRENT	mA	18750	9231	10909	4800	4615	2727	3310	1055
STALL TORQUE	mN.m	117	91	128	93	130	98	154	90
MAXIMUM POWER OUTPUT	W	27.7	13.6	32.3	14.1	27.5	16.1	39.3	12.5
MAXIMUM EFFICIENCY	%	84	82	84	82	88	83	86	83
TERMINAL RESISTANCE PHASE TO PHASE ±12%	Ω	0.32	0.65	1.10	2.50	5.20	8.80	14.5	45.5
INDUCTANCE (1kHz)	mH	0.015	0.046	0.075	0.023	0.47	0.81	4.45	1.35
MECHANICAL TIME CONSTANT	ms	7.1	5.8	6.7	5.9	5.7	6.0	5.8	5.5
MOMENT OF INERTIA	gcm²	8.86	8.73	8.61	8.99	8.73	8.99	8.79	9.06
TORQUE CONSTANT	mN.m/A	6.3	9.9	11.9	19.5	28.2	36.3	46.8	86.4
SPEED CONSTANT	rpm/V	1514	961	805	489	339	263	204	110
SPEED/TORQUE GRADIENT	rpm/mN.m	76.8	62.9	74.7	62.7	62.5	63.7	63.1	58.2
WEIGHT	g	80.2	80.1	79.8	80.4	80.1	80.4	80.1	80.5

ADDITIONAL INFORMATION

MAXIMUM ROLLING BEARING LOADS

AXIAL (DYNAMIX)	5.9 N	RADIAL (5MM FROM HEAD FACE)	8.0 N
PRESS-FIT FORCE	16(70) N	L: MAX ALLOWABLE SCREW DEPTH INTO FLANGE	3.5 mm
MAXIMUM RADIAL PLAY	≤0.02mm	AXIAL PLAY:	PRESET
MAXIMUM WINDING TEMPERATURE	85°C	AMBIENT TEMPERATURE RANGE:	-30 to 65°C

AM-CL2242GA/B COMBINATION SCHEME



Recommend Gearbox:
Planetary Gearbox:
AM-22P

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

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

L1:22P	L2: CL22	L3:EN22-S
22.4	42.0	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.

ASSUN MOTOR

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