



DC Coreless Motor AM-CL2242MA/B Series

ASSUN MOTOR

2015 edition. Specifications are subject to change without notice.

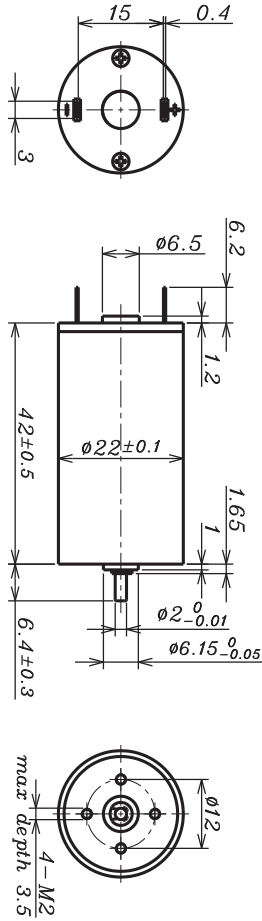
PRECIOUS METAL BRUSH BALL BEARING

MOTOR MODEL		0606	0605	1207	1205	2407	2405	4806	4806
NOMINAL VOLTAGE	V	6	6	12	12	24	24	48	48
NO LOAD SPEED ±12%	rpm	6426	5045	7150	5457	7125	4743	6475	4487
NO LOAD CURRENT Max 150%	mA	46	30	24	20	13	7.5	6.5	3.7
Recommend Limit for Continuous Operating	mN.m	8.3	10.4	12.4	13.2	14.0	15.0	13.6	14.9
	rpm	5833	4369	6352	4657	6240	3843	5615	3591
	mA	980	950	800	650	450	320	200	150
	W	5.1	4.8	8.2	6.4	9.2	6.0	8.0	5.6
STARTING CURRENT	mA	10169	6818	6977	4317	3529	1655	1463	736
STALL TORQUE	mN.m	90	77	111	90	113	79	103	74
MAXIMUM POWER OUTPUT	W	15.1	10.1	20.8	12.8	21.0	9.8	17.4	8.7
MAXIMUM EFFICIENCY	%	87	87	89	87	88	87	87	86
TERMINAL RESISTANCE PHASE TO PHASE ±12%	Ω	0.59	0.88	1.72	2.78	6.80	14.5	32.8	65.2
INDUCTANCE (1kHz)	mH	0.36	0.09	0.23	0.44	0.7	3.01	4.01	5.01
MECHANICAL TIME CONSTANT	ms	6.5	6.2	6.0	5.8	6.0	5.5	5.8	5.8
MOMENT OF INERTIA	gcm²	8.66	8.92	8.92	9.06	9.06	8.79	8.73	9.12
TORQUE CONSTANT	mN.m/A	8.9	16.0	16.0	20.9	32.0	48.1	70.5	101.6
SPEED CONSTANT	rpm/V	1076	598	598	457	298	199	135	94
SPEED/TORQUE GRADIENT	rpm/mN.m	71.5	66.0	64.4	60.8	63.2	59.8	63.1	60.3
WEIGHT	g	79.5	79.8	79.8	80.1	80.1	79.6	79.5	80.1

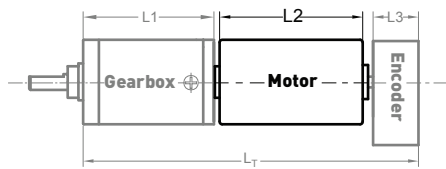
ADDITIONAL INFORMATION

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	2.5 mm
MAXIMUM RADIAL PLAY	≤0.02mm	AXIAL PLAY:	PRESET
MAXIMUM WINDING TEMPERATURE	85°C	AMBIENT TEMPERATURE RANGE:	-30 to 65°C



AM-CL2242MA/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	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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