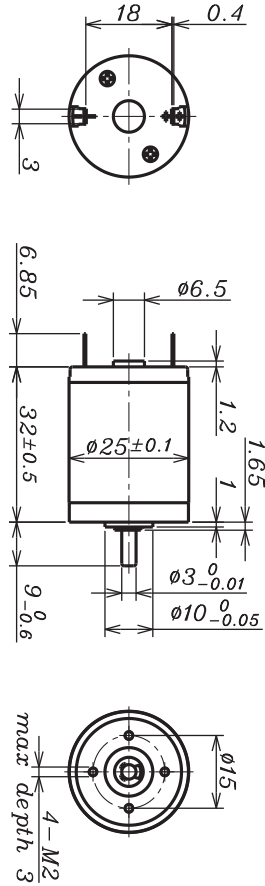




DC Coreless Motor AM-CL2532MA/B Series

ASSUN MOTOR

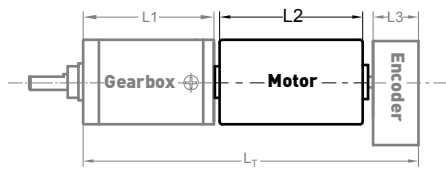
2015 edition. Specifications are subject to change without notice.



		PRECIOUS METAL BRUSH				BALL BEARING			
MOTOR MODEL		0306	0304	0606	0604	1206	1204	2406	2405
NOMINAL VOLTAGE	V	3.0	3.0	6.0	6.0	12.0	12.0	24.0	24.0
NO LOAD SPEED ±12%	rpm	6010	3993	6073	4155	6592	4070	6166	4850
NO LOAD CURRENT Max 150%	mA	120	74	53	37	24	20	15	7.5
Recommend Limit for Continuous Operating	mN.m	3.9	6.2	6.0	7.6	6.5	7.7	7.5	11.2
	rpm	5420	3162	5279	3125	5717	3025	5110	3315
	mA	950	950	700	600	400	300	220	250
	W	2.2	2.0	3.3	2.5	3.9	2.5	4.0	3.9
STARTING CURRENT	mA	8571	4286	5000	2308	2857	1121	1212	769
STALL TORQUE	mN.m	40	30	46	31	49	30	44	35
MAXIMUM POWER OUTPUT	W	6.2	3.1	7.3	3.4	8.4	3.2	7.1	4.5
MAXIMUM EFFICIENCY	%	78	75	80	76	83	75	79	79
TERMINAL RESISTANCE PHASE TO PHASE ±12%	Ω	0.35	0.7	1.2	2.6	4.2	10.7	19.8	31.2
INDUCTANCE (1kHz)	mH	0.014	0.048	0.086	0.02	0.34	0.87	1.48	2.36
MECHANICAL TIME CONSTANT	ms	17.1	14.8	13.9	15.0	14.4	14.1	14.8	13.3
MOMENT OF INERTIA	gcm ²	10.8	10.5	10.1	10.6	10.2	10.1	10.1	9.28
TORQUE CONSTANT	mN.m/A	4.7	7.1	9.3	13.6	17.2	27.7	36.7	46.7
SPEED CONSTANT	rpm/V	2032	1354	1023	704	554	345	260	205
SPEED/TORQUE GRADIENT	rpm/mN.m	151.3	134.5	131.5	134.9	135.0	133.6	140.3	136.8
WEIGHT	g	73.3	72.9	72.4	73.0	72.6	72.4	72.4	72.2

ADDITIONAL INFORMATION			
MAXIMUM ROLLING BEARING LOADS			
AXIAL (DYNAMIX)	7.3 N	RADIAL (5MM FROM HEAD FACE)	8.0 N
PRESS-FIT FORCE	60(120) N	L: MAX ALLOWABLE SCREW DEPTH INTO FLANGE	3.0 mm
MAXIMUM RADIAL PLAY	≤0.02mm	AXIAL PLAY:	PRESET
MAXIMUM WINDING TEMPERATURE	85°C	AMBIENT TEMPERATURE RANGE:	-30 to 65°C

AM-CL2532MA/B COMBINATION SCHEME



Recommend Gearbox:
Planetary Gearbox:
AM-26P
AM-28P

Recommend Encoder:
Encoder S: AM-EN16-S***
2-3 Channels

TOTAL LENGTH (GEARBOX AND MOTOR): L _T = L ₁ + L ₂ + L ₃		
L1:28P	L2: CL25	L3:EN16-S
28.4	32.0	10.7
34.7		
41.0		
47.3		

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.