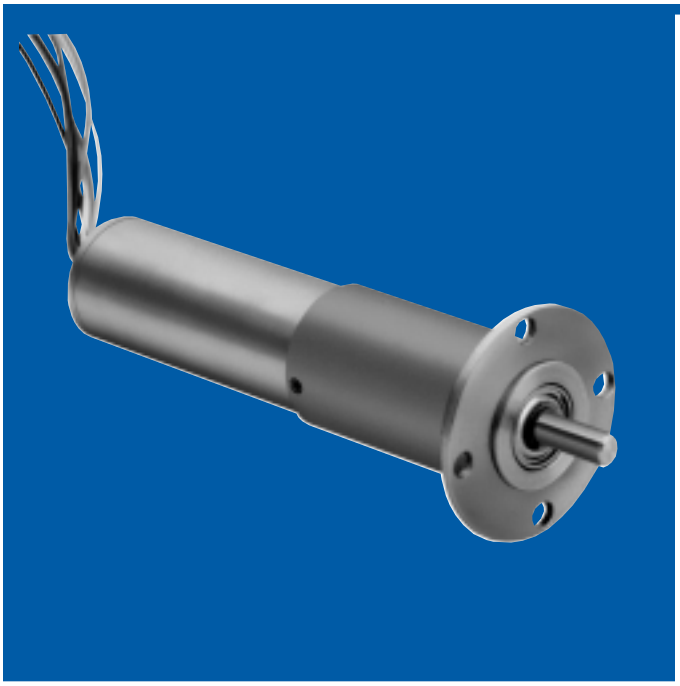
INB-08 GEARMOTORS

Brushless DC Permanent Magnet Planetary Gearmotors

EN-1030



torque rating: Up to 300 oz. in. maximum continuous torque

weight: 6 to 8 ounces depending on ratio

gears: Planetary gearing system. All gears are heat treated for consistently reliable performance and long life

shaft: Precision-ground No. 416 stainless steel. Options: length, smaller diameter, flats, pinions, gears, holes (through or tapped), threaded ends and tapers. Shaft material may change depending upon options selected

backlash: Varies with reduction but average unit will have less than 3°

gear inertia: 1.8 x 10^{-6} oz. in. $sec.^2$ @ input max

bearings: Ball bearings are double shielded, life-lubricated

cables/leads: 8" #26 AWG leads, Typ 8 places

housing: Aluminum

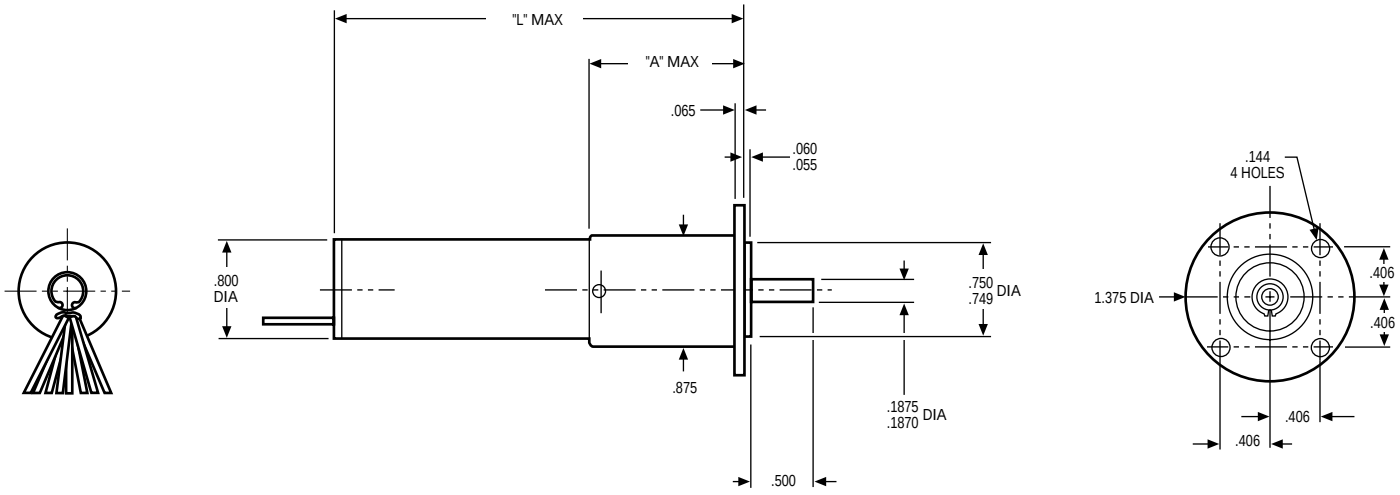
mounting flange: No. 303 stainless steel per ASTM A582

gear train housing: Stress-proof steel

options available:

- Alternate windings

Dimensions



NOTE: Consult factory prior to preparing spec control prints. Dimensions are for reference only

Globe Motors™

Standard Part Numbers and Data

SPEED REDUCTION RATIO	MAXIMUM CONTINUOUS TORQUE (oz. in.)	TORQUE MULTIPLIER RATIO	STANDARD PART NUMBER PREFIX*		
			dimension "A" max (in.)	dimension "L" max (in.)	part no. prefix*
3.82:1	1.0	3.1	.993	3.006	547A100
5.77:1	1.5	4.6			547A101
14.58:1	3.0	9.3	1.211	3.224	547A102
22.03:1	4.5	14.0			547A103
33.28:1	7.0	21.0			547A104
55.66:1	10.0	28.0	1.380	3.393	547A105
84.11:1	14.0	43.0			547A106
127.1:1	21.0	65.0			547A107
192:1	30.0	93.0			547A108
321:1	45.0	130.0	1.549	3.562	547A109
485:1	70.0	200.0			547A110
733:1	100.0	300.0			547A111
1,108:1	150.0	450.0			547A112
1,853:1	200.0	600.0	1.718	3.731	547A113
2,799:1	300.0	900.0			547A114
4,230:1	300.0	1,400			547A115
6,391:1	300.0	2,100			547A116
10,689:1	300.0	2,800	1.887	3.900	547A117
16,150:1	300.0	4,200			547A118
24,403:1	300.0	6,400			547A119
36,873:1	300.0	9,700			547A120

Max Cont. Torque: The values in this column are based upon gear train strength and capability for 1,000 hrs. minimum life. Max rated torque of motor selected x torque multiplier ratio must not exceed maximum continuous torque of gearbox
Max Intermittent Torque = 2 x Max Cont. Torque
Momentary Stall Torque = 5 x Max Cont. Torque (1,000 oz. in. max)
Mininum Gearbox Efficiency = Torque Multiplier Ratio divided by Speed Reduction Ratio x 100

*When You Order

Basic motor winding data is shown on chart below. To order, state gear train standard part number, plus a motor winding dash number.
EXAMPLE: 547A100-1. Alternate windings are available. Contact the factory for additional information

Winding Characteristics

VOLTAGE (VDC)	SPEED no load (rpm)	TORQUE		CURRENT			CONSTANTS		STANDARD PART NUMBERS*
		max rated (oz. in.)	** theoretical stall (oz. in.)	max no load (amps)	max rated load (amps)	** theoretical stall (amps)	K_T (oz. in./ amp)	R (ohms)	
24	24,000	1.5	8.75	.21	1.45	6.63	1.32	3.62	545A100-1

**Because of motor losses and the variable types of commutation/drive electronics, stall currents and torques will not always be attainable

NOTE: See bulletin sheet EN-1000 for schematics and additional motor information