

**SYNCHRONOUS MOTOR FAMILY**

**Series MB (Mini-Bee), HB (Honey-Bee) Reversible Hysteresis Synchronous Motor**



Output Speed:	900 to 1800 RPM
Lead Wire:	4 leads (approx. 12 inches [304.8 mm])
Operation Ambient Temp:	-10°C to +40°C (approx.)
Shaft Bearing:	Sealed Ball Bearing
 Recognition:	MB: E52207, Component-Systems, Electrical Insulation HB: E52207, Component-Systems, Electrical Insulation Class 105(A) Insulation System E52177 Component-Motors
 Certification:	MB: Card No. 42576, Motors and Generators, 115 Vac, 60 Hz, 1/100 hp, 30 watts max.
Capacitor is required for operation. Capacitor supplied with 115 Vac motors.	
Note: Typical data subject to change without notification	

REVERSIBLE, INVERTED ROTOR, HYSTERESIS SYNCHRONOUS

**MB SERIES**



MB Series motors are constructed with an inverted rotor and at 60Hz have a synchronous speed of 1800 RPM. The "fly wheel" effect of the increased rotor inertia provides smooth operation with more uniform angular velocity characteristics than other types.

With a power rating of 1/100 HP, MB motors are particularly suited to applications requiring low flutter, direct drive, synchronous operation. Sealed output ball bearing and machined die cast housing are standard. Models listed are designed for 115V, 60 Hz operation.

**HB SERIES**



HB Series are available in three direct drive synchronous speeds: 1800 RPM (1/35 HP), 1200 RPM (1/70 HP), and 900 RPM (1/115 HP). Inverted rotor design providing superior angular velocity characteristics reduces "flutter" to a minimum. Sealed ball bearings and machined die cast housing are standard. Models listed are designed for 115V, 60 Hz operation.

Notes:

- A capacitor is required for operation.

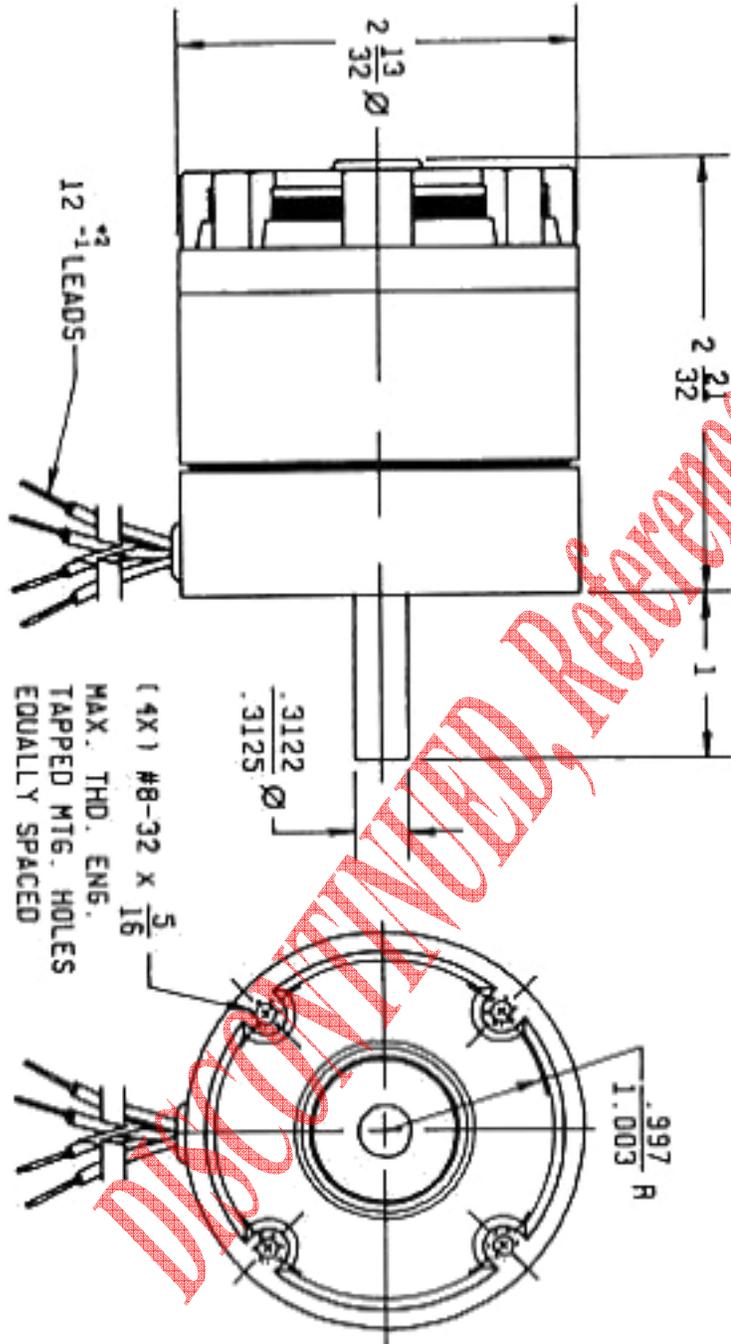
Model	Part Number	Output Speed (RPM)	Rated Torque (oz-in)	Rated Torque (mN-m)	Input Power (watts)	Capacitor Value (MFD)	Temp. Rise °C. Full Load	Weight (oz)	Weight (g)
MB	2201-001	1800	5.50 (C) 5.25 (A) 6.00 (B)	38.84 (C) 37.07 (A) 42.37 (B)	30	2.0	40	28	793.8
HB	2203-001	900	10.2 (C) 10.1 (A) 14.1 (B)	72.0 (C) 71.3 (A) 99.6 (B)	40	2.5	40	58	1644.3
HB	2002-001	1200	12.8 (C) 12.6 (A) 17.6 (B)	90.4 (C) 89.0 (A) 124.3 (B)	50	2.0	40	58	1644.3
HB	2201-001	1800	17.0 (C) 16.8 (A) 23.5 (B)	120.0 (C) 118.6 (A) 165.9 (B)	70	4.0	40	59	1672.6

(A) Pull-in Torque, (B) Locked Rotor Torque, (C) Pull-Out Torque

**DISCONTINUED, Reference Only**

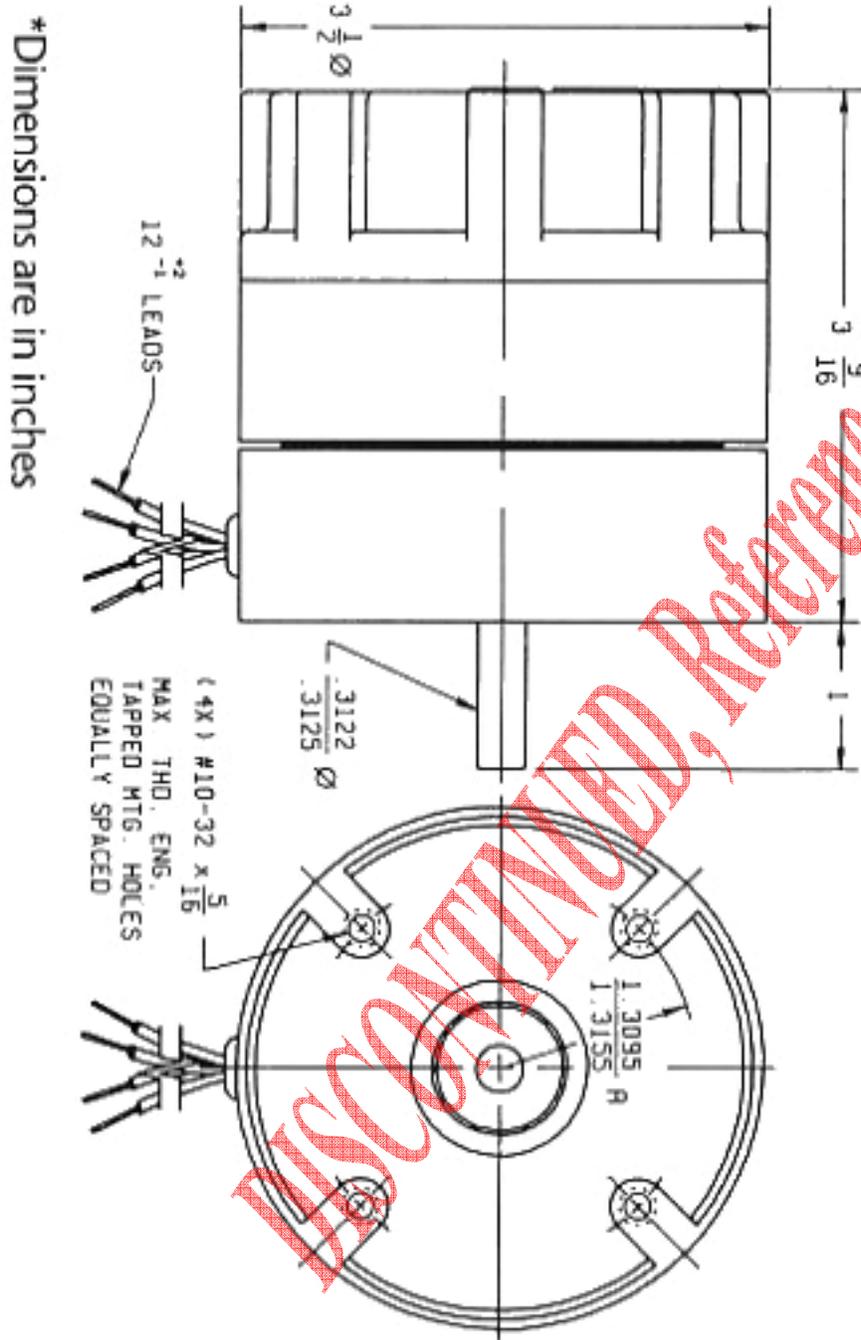
MB (Mini-Bee)

\*Dimensions are in inches

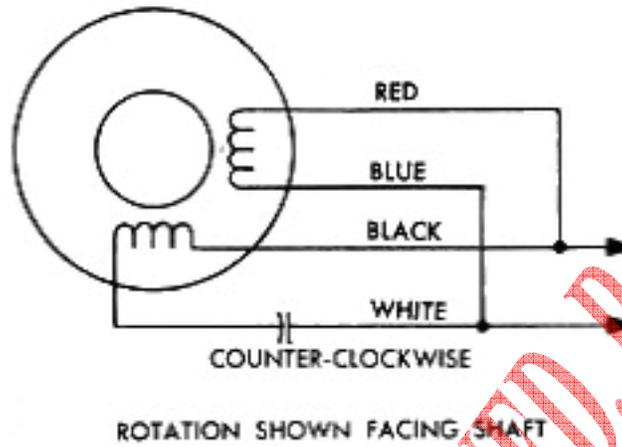
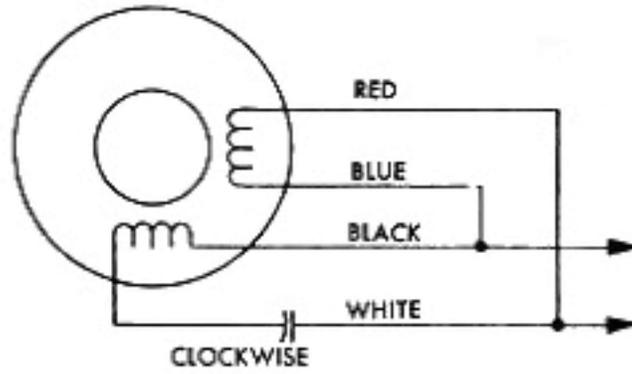


*DISCONTINUED, Reference Only*

HB (Honey-Bee)



DISCONTINUED, Reference Only



**DISCONTINUED, Reference Only**