

\* ADD  $\frac{.125}{3.18}$  FOR SPEEDS SLOWER THAN 1/240 RPM

Inches  
Millimeters

# 700 Motor Synchronous Hysteresis

The 700 synchronous hysteresis motor is available in speeds from 450 RPM to 1 revolution per month. It is suitable for many timing and instrument applications that require the smooth acceleration and quiet operation of a hysteresis motor.

### Features:

Always starts in the right direction without a mechanical device • Quiet operation • Operates in any position • Speeds to 1 revolution per month • Mounting is compatible with other pear-shaped motors • Impedance protected • UL & CSA recognized • Options available...consult factory

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# Specifications

## Rated Torque at 1 RPM

At 3.7 W: 14 oz.-in. (1,008 gm.-cm.) -60Hz  
 12 oz.-in.(864 gm.-cm.) -50Hz  
 At 5 W: 19 oz.-in. (1,368 gm.-cm.) -60Hz  
 16 oz.-in. (1,152 gm.-cm.) -50Hz

## Rotor Speed

450 RPM at 60Hz

## Static Gear Train Rating

40 oz. in. (2880 gm.-cm.) maximum. Varies with gear train construction for different speeds

## Rotation

CW or CCW

## Electrical

Voltage: 24V, 115V, 230V

Frequency: 60Hz or 50Hz

Power Input: 3.7 watts (standard) at 60 or 50 Hz

5 watts (maximum) at 60 or 50 Hz

Current Input: At 3.7 watts--24V-240ma, 115V-45ma, 230V-22ma. At 5 watts--24V-320ma, 115V-59ma, 230V-30ma

## Leads

115V and 230V:  $9 \pm 1/2$  in. ( $22.9 \pm 1.27$  cm.)

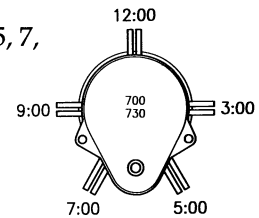
24V:  $6 \frac{1}{2}$  in.  $\pm 1/2$  in.

Stripped  $3/16 \pm 1/16$  in. ( $.48 \pm .16$  cm.)

22 AWG 7 x 30 top coat

PVC insulation  $1/32$  in. (.08 cm.) thick, black

Exits at 12, (standard), 3, 5, 7, or 9 o'clock



## Ambient Operating Temperature Range

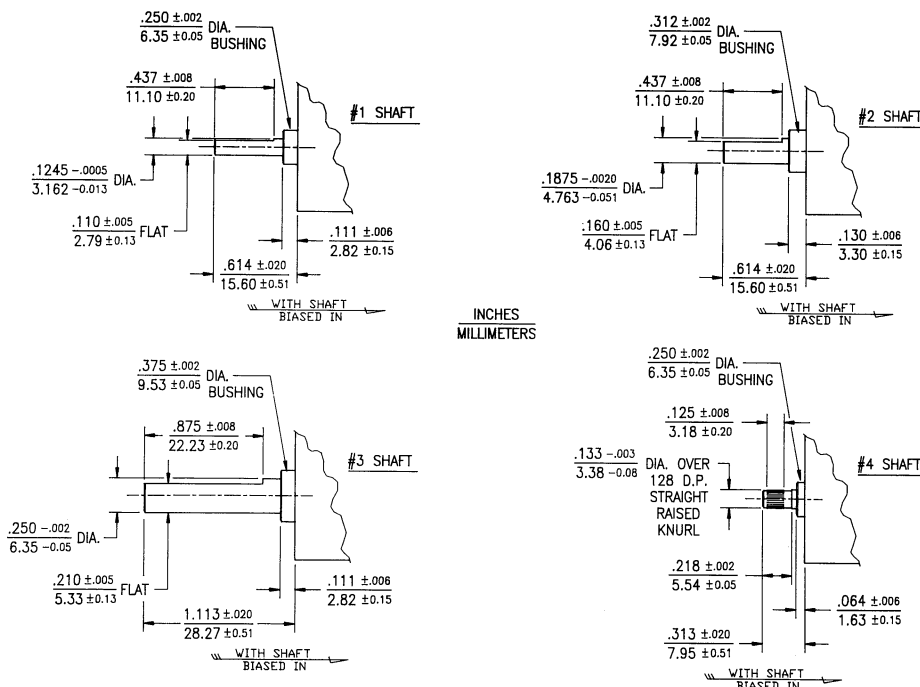
Varies with duty cycle. Consult factory.

## Lubrication

Permanently lubricated. Special lubricants available for operation under  $10^{\circ}\text{F}$  ( $-12^{\circ}\text{C}$ )...consult factory.

## Output Shaft Options Available

### Generally Used Output Shafts



This data sheet is intended for design purposes only. Actual motor performance characteristics, shaft design and optional features will depend upon specific requirements of the application. Consult factory for sample information or assistance in establishing your specifications.