

730 Hysteresis Clutch Motor

A special characteristic of this hysteresis motor is a built-in clutch that disengages from the geartrain when power is removed. The clutch is important in applications that require resetting the geartrain. Re-energizing during reset will cause internal damage. Speeds available from 1/10 RPM to 15 RPM.

Features:

Fully enclosed clutch is part of the gear train where it is protected from the external environment • When powered, clutch "locks in" and rotor drives through gear train to output shaft. On removal of power, clutch disengages rotor from gear train • Internal clutch operates as part of the motor, does not require a separate circuit • Motor operates in any mounting position • When de-energized, output shaft can be externally driven in the opposite direction from its operating direction of rotation • Mounting is compatible with other pear-shaped motors • Impedance protected • UL & CSA recognized • Options available...consult factory

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Specifications

Rated Torque

19 oz.-in. (1,368 gm.-cm.) at 1 RPM-60Hz

Rotor Speed

450 RPM at 60Hz

Static Gear Train Rating

40 oz.-in. (2,880 gm.-cm.) maximum. Varies with gear train construction.

Output Speeds

15 RPM to 1/10 RPM

Rotation

CW or CCW

Electrical

Voltage: 24V, 115V, 230V

Frequency: 60Hz or 50Hz

Power Input: 5 watts at 60 or 50 Hz

Current Input: 24V-320ma, 115V-59ma, 230V-30ma at 60Hz or 50Hz

Leads

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

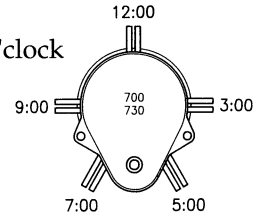
24V: $6 \frac{1}{2}$ in. $\pm 1/2$ in.

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



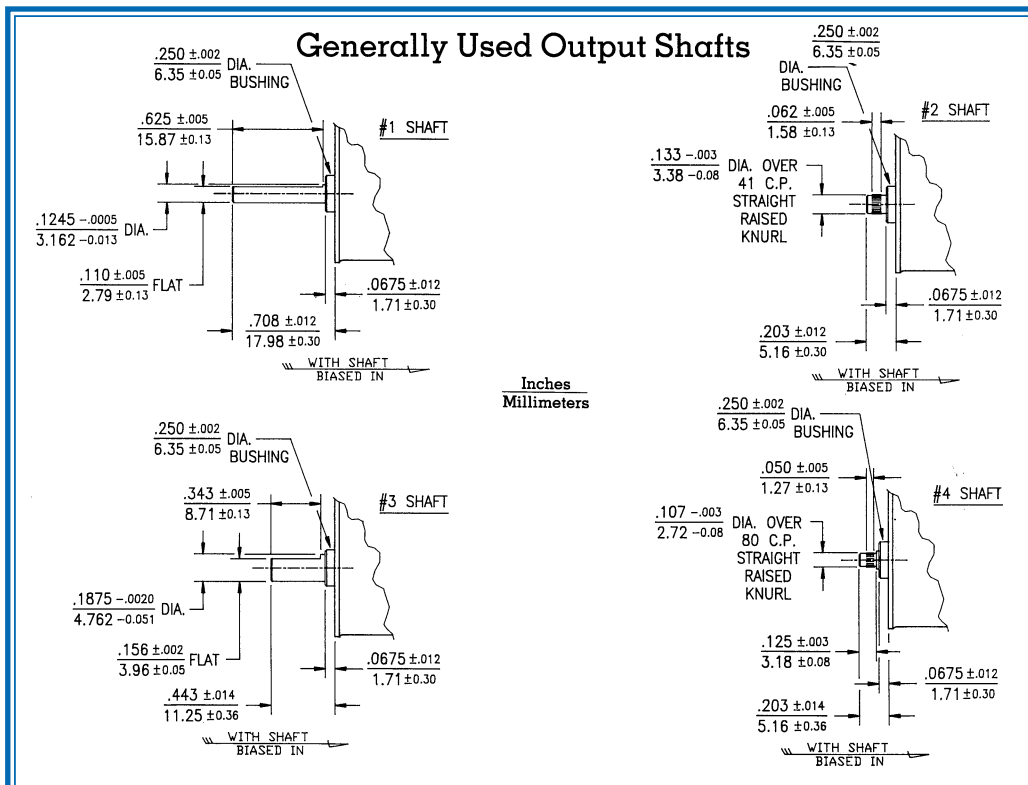
Ambient Operating Temperature Range

Varies with duty cycle...consult factory.

Lubrication

Permanently lubricated. Special lubricants available for operation under 10°F (-12°C)...consult factory.

Output Shaft Options Available



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.