

Shaded Pole Cast Iron Frame

Unit Bearing Motors



Applications

Our shaded pole cast iron unit bearing motors are primarily used in commercial refrigeration applications, both evaporator and condenser, but can be used in any application demanding dependability with output ratings between 2 - 25 watts.

Optimize your Performance

All of our shaded pole cast iron frame unit bearing motors can be sold with a variety of mounting brackets and fan blades in order to optimize airflow and system efficiency.

Electrical Summary

- Voltage: 100, 115, 200, 230, 277, or 460 V
- Output: 2 - 25 watts
- Efficiency: ~25% peak
- Speed Range: 1300 - 1550 RPM
- Speeds: 1 or 2
- Rotation: CW or CCW (determined from the lead end of the motor)

Mechanical Summary

- Type: 3.3" shaded pole cast iron frame unit bearing
- Shaft: 1/4" x 20 thread is standard. Optional features include flatted end, smooth end, and 5/16" diameter shaft.
- Enclosure: Cast Iron (totally enclosed)
- Bearing: Unit bearing
- Bearing Oil: (ISO grades 15, 32, or 68) high quality paraffinic based oil selected for excellent oxidation resistance, wear protection, protection against rust and corrosion, and resistance to foaming. Also available, an oil with optimum flow characteristics at sub-zero temperatures. (ISO grades 10/15 or 68) synthetic diester-based lubricant formulated to offer extended lubrication over a wide temperature range and minimize wear.
- Mounting: Three #8-36 tapped through holes on rear and optional 2 side mounting bosses for pedestal mounting
- Operating Position: Horizontal shaft (+/- 15°), optional all-angle, or vertical shaft up
- Leads: Standard 18 gauge, 2 conductor. Lead cord may be terminated with 1/2" stripped wire, in-house molded plugs, eyelets, 1/4" quick connects, or special terminals. Other customized lead options are available.

Environmental Summary

- Storage Temps: -40 to 80° C ambient (depends on selected oil)
- Operating Temps: -40 to 55° C ambient (depends on selected oil)
- Design Life: 12 years, 100,464 hours on time