



PSC Internal Capacitor Unit Bearing Motors

Applications

Our PSC internal capacitor 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 - 14 watts.

Innovative design

With over 60 years of experience our patented unit bearing motors provide our customers with years of durable, problem-free operation. Our PSC has twice the efficiency and is significantly quieter than our shaded pole motor. Utilizing a patented, internally-mounted capacitor results in a compact, single-component unit, our internal capacitor unit bearing motors provides you with direct mechanical interchangeability with our current shaded pole unit bearing motors.

Optimize your performance

All of our PSC internal capacitor 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: 15 or 230 V
- Output: 1 - 9 watts
- Efficiency: ~45% peak
- Speed Range: 1300 - 1550 RPM
- Speeds: 1
- Rotation: CW, CCW, or reversible (determined from the lead end of the motor)

Mechanical Summary

- Type: 3.3" PSC aluminum or 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: Aluminum or Cast Iron (totally enclosed)
- Bearing: Unit bearing
- Mounting: Five .150" diameter cored 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.
- Capacitor: Internal

Environmental Summary

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

The Morrill Motors Pledge

Since 1946, Morrill Motors has earned the trust of customer around the world. Our commitment to quality and unique designs is unwavering. Working with you and your team, we will ensure exacting specifications and performance standards whether you select one of our many current production models, or choose to have us customize features and specifications to meet your special requirements.

We are pledged to ensure your success. Expect only the best service, quality and value when you specify Morrill Motors.