



ARKTIC SSC™

Applications

Our SSC2 unit bearing motors are primarily used in commercial refrigeration applications, both evaporator and condenser, but can be used in any application demanding high efficiency and dependability with output ratings between 2 - 38 watts.

Innovative design

50 years after launching the most efficient shaded pole motor of its time, Morrill Motors is now offering the most efficient electronically commutated unit bearing motor available. Our SSC significantly outperforms both shaded pole and PSC technology. With efficiencies three times higher than shaded pole motors and 45% higher than PSC, in addition to the reliable and quiet unit bearing design, the SSC provides users the most reliable and best energy savings solution for their applications.

Optimize your performance

All of our SSC2 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: 115 (90-132) or 208-230 (180-264) V
- Output: 2 - 38 watts
- Efficiency: ~66% peak
- Speed Range: 1000 - 3600 RPM
- Speeds: 1 (constant speed)
- Rotation: CW or CCW (determined from the lead end of the motor)

Mechanical Summary

- Type: 3.3" electronically commutated aluminum or cast iron unit bearing
- Shaft: ¼" 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, ¼" quick connects, or special terminals. Other customized lead options are available.
- Compliance: RoHS

Environmental Summary

- Storage Temps: -40 to 80° C ambient
- Operating Temps: -40 to 55° C ambient
- Design Life: 10 years, 83,720 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.