



# ARKTIC™ · 59

## Applications

Our ARKTIC 59 motors are primarily used in the evaporator of commercial refrigeration walk-in coolers and freezers, but can be used in any application demanding high efficiency and dependability with output ratings up to 50 watts.

## Innovative design

Combining over 20 years of GE ECM by Regal Beloit experience with Morrill Motors commitment to value, quality, and service we are now offering the most efficient 50 watt electronically commutated motor available. Our ARKTIC 59 significantly outperforms both shaded pole and PSC technology. With efficiencies three times higher than shaded pole motors and 40% higher than PSC, in addition to the reliable design, the ARKTIC 59 provides users the most reliable and best energy savings solution for their applications.

## Optimize your performance

All of our ARKTIC 59 motors can be sold with [mounting brackets](#) and can be programmed at your facility to optimize airflow and system efficiency using the [ECM Toolbox](#).

## Electrical Summary

- Voltage: 115 (90-132) or 208-230 (180-264) V
- Output: Peak output 50 watts - 1/15 HP
- Efficiency: ~70% peak
- Speed Range: 500 - 1800 RPM
- Speeds: 1 or 2 (speed regulated +/- 6%)
- Rotation: CW, CCW, or CW/CCW (determined from the lead end of the motor)
- Programmable: The ECM Toolbox can be used to change the number of speeds, RPM, and Rotation

## Mechanical Summary

- Type: 3.3" electronically commutated
- Shaft: 5/16" with single flat is standard. 8mm and double flat available
- Enclosure: Totally enclosed - air over required
- Bearing: Ball bearing with low temperature grease
- Mounting: Standard 0.5" - #10-32 studs on shaft end (2.8" bolt circle) Optional 0.5" - #10-32 studs on the opposite shaft end (2.8" bolt circle)
- Operating Position: All angle
- Leads: Many 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.