

Home > [Our Products](#) > [Motors](#) > [ARKTIC® 59](#)



ARKTIC® 59

[Print This Page](#)

Applications

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

Innovative design

Combining over 100 years of ECM technology innovation by Regal Beloit, and our commitment to value, quality, and service we are now offering the most efficient 38 and 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. The ARKTIC 59 is factory programmed to meet your specifications.

Optimize your performance

All of our ARKTIC 59 motors can be sold with [mounting brackets](#).

Electrical Summary

- Voltage: 115 (90-132) or 208-230 (180-264) V Single Phase
- Output: Peak output 50 watts - 1/15 HP rated at 1550 RPM, 38 watts - 1/20 HP rated at 1550 RPM
- Efficiency: ~66% 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)

Mechanical Summary

- Type: 3.3" electronically commutated
- Shaft: Single. 5/16" single shaft with single flat is standard. 8mm and double flat shafts 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) and 0.5" - #10-32 studs on the opposite shaft end (2.8" bolt circle)
- Operating Position: All angle
- Control: Integrated to motor
- Leads: Many customized fixed lead options are available.
- UL: E258064

Environmental Summary

- Storage Temps: -40 to 80° C ambient
- Operating Temps: (1/15: -40 to 25° C) (1/20: -40 to 55° C)
- Design Life: 10 years, 83,720 hours on time for typical evaporator fan application

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

Resources

White Papers

- [General Motor Knowledge Part 9](#)
- [General Motor Knowledge Part 34](#)
- [General Motor Knowledge Part 39](#)
- [General Motor Knowledge Part 40](#)
- [Arctic 59 Brochure](#)

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.

[Contact](#) [Privacy Policy](#) [Press](#)