Common Sense Solutions for Cold Storage Efficiency

TECH DATA: ICE 59 Motors

Electronically Commutated (EC) 2-sp Motors

REFRIGERATION TECHNOLOGIES LLC

Quantifiable Energy Savings
Refrigeration Technologies' products are 100% tested, proven and offer quantifiable savings.

Five-Year Warranty
All products come with a standard five-year warranty

Complimentary No-Obligation Energy Audit
We'll tell you what you're currently paying vs. what you could be saving

Energy Rebates
Refrigeration Technologies will research, process and file energy rebate applications on your behalf to provide maximum dollar savings!

QUALITY SERVICE

Refrigeration Technologies' provides superior quality service on all of our products and at times' in-house installation Retrofit Teams!!

ICE 59 2-sp EC motors are primarily used in the evaporator of commercial refrigeration walk-in coolers and freezers, but can be used in many applications demanding high efficiency and dependability with output ratings up to 74.6 watts. ICE 59 2-sp EC motors have a long life and are maintenance free, and offer a quick ROI. Great for retrofit applications

Electrical Summary

- Voltage: 115 (90-132) or 208-230 (180-264) V Single Phase
- Output: Peak output 74.6 watts - 1/10 HP (rated at 1550 RPM)
- Efficiency: ~68% peak
- Speed Range: 800—1550 RPM
- Speeds: 1 or 2 (speed regulated +/- 6%)
- Rotation: CW, CCW, or CW/CCW for discrete speeds. CW or CCW for PWM a commanded for DSI (determined from the lead end of the motor).
- Programmable: For a fully equipped ICE 59, the ECM Toolbox can be used to change the operating type between discrete, PWM, and DSI (communicating). For discrete operation, the number of speeds, RPM, and Rotation can be programmed. For PWM operation, the turn on and turn off speeds and direction of rotation can be programmed. Additionally, the ECM Toolbox can be used to generate the PWM signal for use in laboratory testing. The ECM Toolbox provides utilities necessary to help the user generate DSI communication strings for DSI operation.

Mechanical Summary

- Type: 3.3" electronically commutated
- Shaft: Single and Double shaft. 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) Optional 0.5" - #10-32 studs on the opposite shaft end (2.8" bolt circle)
- Operating Position: All angle
- Control: Integrated to the motor, or remotely mounted
- 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 (for typical evaporator fan applications)

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