

ICE™ · 142



Applications

Our ICE 142 motors are primarily used in the evaporator of commercial refrigeration walk-in coolers and freezers as well as outdoor condensers, but can be used in many applications demanding high efficiency and dependability with output ratings between 1/5 - 3/4 HP including parallel rack fan motors.

Optimize your Performance

All of our ICE 142 motors can be sold with mounting brackets. Additionally, the ECM Toolbox can be used in a lab environment to generate a PWM signal for variable speed operation, or to create communication strings for a Digital Serial Interface (DSI) equipped version.

Electrical Summary

- Voltage: 115 (90-132)* or 208-230 (180-264) V Single Phase
- Output: 1/5, 1/3, 1/2, and 3/4 HP
- Efficiency: ~77% peak
- Speed Range: 600 - 1200, or 600 - 1800** RPM
- Speeds: Variable (speed regulated +/- 6%)
- Rotation: CW or CCW for PWM and commanded for DSI (determined from the lead end of the motor)
- Programmable: The speeds range, rotation, and operating type come configured from our factory. For PWM operating type, our 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: NEMA 48 frame electronically commutated
- Shaft: 1/2" diameter, single, or double flat shafts
- Enclosure: Totally enclosed - air over required
- Bearing: Ball bearing with low temperature grease
- Mounting: Belly band (customer provided), welded base, #8-32 rear studs, or #8-32 front studs
- Operating Position: Vertical Shaft Down, Horizontal, or Vertical Shaft Up
- Leads: Many customized 2/64 ins. 18AWG lead options are available.
- Lead Exits: Grommet, 1/2" liquid-tight conduit adapter, or Conduit Box
- Compliance: RoHS
- UL Approved - E306123

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)

*All ratings excluding 3/4 HP

** 1/2 and 3/4 HP only