

# ARKTIC™ · 142



## Applications

Our ARKTIC 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 ARKTIC 142 motors can be sold with mounting brackets.

## 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: 1, 2, or 3 (speed regulated +/- 6%)
- Rotation: CW or CCW, or CW/CCW (determined from the lead end of the motor)
- Programmable: The number of speeds, RPM, and rotation come pre-programmed from our factory

## Mechanical Summary

- Type: NEMA 48 frame electronically commutated
- Shaft: 1/2" diameter, single flat (double flat optional)
- 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