

## Arctic 59 Series 3.3" ECM Direct-Drive Blower Motors

- Enclosure: totally enclosed air-over
- Thermal protection: electronic
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Shaft orientation: all-angle
- Plug type: round 2-pin

Feature higher efficiency than standard induction motors for greater energy savings. Can maintain the rated rpm ( $\pm 6\%$ ) independent of static pressure for better air distribution through the refrigeration area. Can be used for replacing shaded pole, PSC, and ECM motors. Suitable for evaporator fan motors used in beverage merchandisers, display cases, freezers, ice machines, vending machines, and walk-in coolers.



HP	Nameplate RPM	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	CLOCKWISE LEAD END Item No.	COUNTER CLOCKWISE LEAD END Item No.
1/50	1,550	115V AC	1.00	5/16 in	1 in	4 1/4 in	—	25TU28 *†
	1,550	115V AC	1.00	5/16 in	2 1/2 in	4 1/4 in	25TU24	—
	1,550	115V AC	1.00	5/16 in	2 1/2 in	4 1/4 in	—	25TU25
1/15	1,550/800	115V AC	1.10	5/16 in	2 1/2 in	3 1/4 in	40TL72	40TL71
	1,550	208-230V AC	0.63	5/16 in	1 in	4 1/4 in	—	25TU33 *
	1,550	208-230V AC	0.63	5/16 in	2 1/2 in	4 1/4 in	25TU29 *	25TU30 *
1/10	1,550/800	208-230V AC	0.63	5/16 in	2 1/2 in	3 1/4 in	40TL69	40TL70

\* Front and rear mounting. † Front mounting only.

## 3.3"-Dia. PSC Motors

- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Deliver higher performance, efficiency, and starting torque than standard 3.3" shaded pole motors. Quick-reversing plug. Studs on both endshields and longer shaft for replacing many OEM motors from Chandler, Climate Control, Heatcraft, Larkin, and others.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Cord Length	Item No.
<b>Open Air-Over</b>									
1/20	3,000	CW/CCW	115V AC	0.38	5/16 in	2 1/2 in	3 1/4 in	20 in	6NZP6
	1,550	CW/CCW	208-230V AC	0.40-0.38	5/16 in	2 1/2 in	3 1/4 in	20 in	3RCX8 †
	1,550	CW/CCW	115V AC	0.80	5/16 in	2 1/2 in	3 1/4 in	20 in	3RCX2
1/15	1,625	CWSE	115V AC	1.00	5/16 in	2 1/4 in	5 in	12 in	3M499 *
	1,550	CW/CCW	115V AC	1.00	5/16 in	2 1/2 in	3 1/4 in	20 in	3RCX3
	1,550	CW/CCW	208-230V AC	0.50-0.46	5/16 in	2 1/2 in	3 1/4 in	20 in	3RCX9 †
1/10	3,000	CW/CCW	115V AC	1.20	5/16 in	2 1/2 in	4 1/4 in	20 in	6NZP8
	1,550	CW/CCW	120V AC	1.50	1/4 in	1 1/2 in	4 1/4 in	20 in	20HN95 ‡#
	1,550	CW/CCW	115V AC	1.40	5/16 in	2 1/2 in	4 1/4 in	20 in	3RCX4
<b>Totally Enclosed Air-Over</b>									
1/20	1,550	CW/CCW	115V AC	0.70	5/16 in	2 1/2 in	3 1/4 in	20 in	3RCX5
1/15	1,550	CW/CCW	208-230V AC	0.50-0.45	5/16 in	2 1/2 in	3 1/4 in	20 in	3RCX3
<b>Totally Enclosed Fan-Cooled</b>									
1/8	3,000	CW/CCW	230V AC	0.60	5/16 in	2 3/4 in	5 3/4 in	12 in	4M090 *†
	3,000	CW/CCW	115V AC	1.30	5/16 in	2 3/4 in	5 3/4 in	12 in	3M292

\* Requires capacitor 2MDV3, sold on page 64. † 60/50 Hz. ‡ Includes bracket and removable studs. # 2-prong polarized plug.

## 3-in-1 HP 3.3"-Dia. PSC Motor

- Enclosure: open air-over
- Thermal protection: auto
- 60/50 Hz
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous

Open air-over motor replaces 1/12, 1/15, and 1/20 HP PSC and low-efficient shaded pole motors. Quick-reversing plug. Studs on both endshields and longer shaft for replacing many OEM motors from Chandler, Climate Control, Heatcraft, Larkin, and others.

HP	Nameplate RPM	Rotation	Voltage	Full Load Amps	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.	
1/2	1,550/1,350	CW/CCW	115/208-230V AC	0.90, 0.43, 1.10	0.49	5/16 in	3 1/4 in	3 3/4 in	2NFD1

## 4.4"-Dia. Energy Efficient PSC Fan Motors

- Rotation: CW/CCW
- Thermal protection: auto
- Service factor: 1.0
- Insulation: Class B
- Mounting: stud
- Bearings: ball
- Max. ambient temp.: 40°C
- Duty: continuous
- Capacitor included

Compact, single-speed PSC motors run at a higher power factor, with a lower starting current draw and lower running current draw than larger shaded pole motors. Also provide higher starting torque and smoother, quieter operation.

HP	Nameplate RPM	Stud/Base Mtg. Pattern	Shaft Dia.	Shaft Length	Length Less Shaft	Full Load Amps	115V AC Item No.	208-230V AC Item No.
<b>Open Air-Over</b>								
1/20	1,625	2 3/4 in x 2 3/4 in	5/16 in	2 1/2 in	3 1/4 in	1.20	10J172	0.60/0.80 10J175 *
1/15	1,625	2 3/4 in x 2 3/4 in	5/16 in	2 1/2 in	3 3/4 in	1.60	10J173	0.60/0.65 10J176 *
1/10	1,625	2 3/4 in x 2 3/4 in	5/16 in	2 1/2 in	3 3/4 in	1.80	10J174	0.80/0.95 10J177 *
<b>Totally Enclosed Air-Over</b>								
1/20	1,625	2 3/4 in x 2 3/4 in	5/16 in	2 1/2 in	3 3/4 in	1.20	10J178	0.60/0.80 10J181 *
1/15	1,625	2 3/4 in x 2 3/4 in	5/16 in	2 1/2 in	3 1/2 in	1.00	10J179	0.55/0.58 10J182 *
1/10	1,625	2 3/4 in x 2 3/4 in	5/16 in	2 1/2 in	3 3/4 in	2.0	10J180	0.86/0.94 10J183 *

\* 60/50 Hz.

**IMPORTANT MOTOR INFORMATION**

Refer to pages 3-7 for selection guidelines, standardized dimensions, thermal protection information, UL 507 Standard location information, NEMA & IEC guidelines, energy legislation information, and terminology.



## 3.3" EC Walk-In Cooler Evaporator Motors

- Enclosure: totally enclosed air-over
- Thermal protection: auto
- Insulation: Class B (1/15 HP), Class A (1/10 HP)
- Bearings: unit
- Max. ambient temp.: 40°C
- Plug type: round 2-pin

Feature higher efficiency than standard induction motors for greater energy savings. Can maintain the rated rpm ( $\pm 6\%$ ) independent of static pressure for better air distribution through the refrigeration area. Motors can be used for replacing shaded pole, PSC, and ECM motors. Suitable for condenser and evaporator fan motors used in display cases, ice machines, beverage merchandisers, vending machines, walk-in coolers, and freezers.

HP	Nameplate RPM	Voltage	Full Load Amps	Motor Shaft Rotation	Shaft Dia.	Shaft Length	Length Less Shaft	Item No.
<b>Cast Iron Frame with Stud Mounting</b>								
<b>Horizontal or Vertical Shaft Down Mounting Position</b>								
1/5	1,550	115V AC	1.20	CCWLE	5/16 in	2 1/2 in	3 1/2 in	23TM13
	1,550	115V AC	1.20	CWLE	5/16 in	2 1/2 in	3 1/2 in	23TM16
	1,550	230V AC	0.77	CCWLE	5/16 in	2 1/2 in	3 1/2 in	23TM14
<b>All Angle Mounting Position</b>								
1/10	1,550	115V AC	1.00	CCWLE	5/16 in	2 1/2 in	4 3/4 in	5ULD1
	1,550	115V AC	1.00	CWLE	5/16 in	2 1/2 in	4 3/4 in	5ULD0
	1,550	230V AC	1.00	CCWLE	5/16 in	2 1/2 in	4 3/4 in	5ULD3
	1,550	230V AC	1.00	CWLE	5/16 in	2 1/2 in	4 3/4 in	5ULD2



AC MOTORS & BLOWERS



Description	Item No.
Shaft Adapter Bushing	
Bushing 3/8" I.D. x 1/2" O.D. bushing increases 3/8"-dia. shaft to 1/2" dia. Plated finish and hole for setscrew. 1 1/2" L.	6X452