

Azure™ Digi-Motor®

5½ inch dia. MARS SERIES 116



AZURE™ Digi-Motor®

Ball Bearing

The Azure™ Digi-Motor® from MARS is a high efficiency variable speed direct drive blower motor for a multitude of applications. Azure™ is a replacement for both standard PSC and Genteq X-13 motors. Two motors cover ratings from 1/5HP to 1HP at 115V or 230V and CW or CCW.

Azure™ features an auto sizing learn mode. In start-up learn mode, Azure™ runs for approximately 90 seconds measuring the external static pressure of the system application. Azure™ then assigns torque values to each of its five speed taps essentially self-programming itself to the correct HP for the application.

If none of the five speeds provides perfect airflow, an optional (MARS No. 08501) PWM variable speed controller can be added to the motor. This controller provides 2 speed pots (one for Heat and one for Cool) that allow the motor to be set at any speed from 350 RPM to 1400 RPM for perfect comfort.

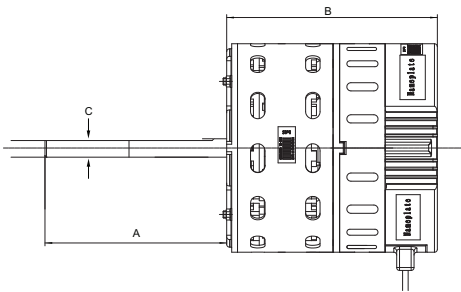
Unlike other electronically commutated motors, an outboard surge protector is included within the Azure™'s wire harness. This is a replaceable device (MARS No. 08591).

Features:

- Outboard replaceable surge protector
- Variable speed PWM (with use of MARS No. 08501)
- 600 RPM constant fan mode
- Reversible rotation
- High efficiency 85%
- Multi-horsepower
- Dual voltage
- 5 Speeds
- Belly band mount

Specifications:

- Class "B" insulation
- 48 Frame
- Thermal overload protected
- Operating temperature range: -20°C to 55°C (-4°F to 131°F)
- UL and CSA recognized



Cross Reference to Competitive ECM Products

MARS No.	Century/AO Smith	US Motors/Emerson	GE/Genteq
10800	CS1056, CSL1056	5522ET, 5532ET, 5542ET (1/3 HP & 1/2 HP), 5552ET (1/2 HP)	6001, 6002, 6005, 6103E, 6203E, 6105E, 6205E
10801	CS1106, CSL1106	5552ET, 5542ET (3/4 HP)	6003, 6004, 6010, 6107E, 6207E, 6110E, 6210E

350 RPM to 1400 RPM Operating Range* – Ball Bearing

MARS NO.	HP	VOLTS	AMPS 120V/230V	RPM	ROTATION	DIMENSIONS		
						A	B	C
10800	1/5-1/2	115/230	6.4/3.8	1050	Rev	4.93	5.72	1/2
10801	1/2-1	115/230	11.5/7.0	1050	Rev	4.93	6.66	1/2

* with optional Azure™ PWM Variable Speed Controller

Accessories for Azure™ Digi-Motors®

MARS NO.	DESCRIPTION
08501	Azure™ PWM Variable Speed Controller
08590	Replacement Wire Harness
08591	Replacement Surge Protector
08592	Replacement Jumpers for Rotation/Voltage