Emerson® UltraTech® ECM Variable-Speed Motor

Feel the difference.



UltraTech® variable-speed motors are cutting edge serial communicating Electronically Controlled Motors (ECM) designed for use in direct drive blower, residential furnace or air handler applications.

The UltraTech® variable-speed motor offers an array of built-in benefits, including:

- Up to 82% efficient, 30% better than existing PSC motors
- Unrivaled CFM control providing constant airflow across a wide range of operating parameters
- State of the art design minimizes noise during operation and through startup and coast-down modes
- Four-wire, two way communcation designed for easy integration using the ClimateTalk™ open communications protocol



UltraTech® Motor Specifications					
Rated Horsepower	1	3/4	1/2	1/3	
Motor Type	BPM/ECM	BPM/ECM	BPM/ECM	BPM/ECM	
Frequency (Hz)	50/60	50/60	50/60	50/60	
Input Voltage (VAC rms)	120/240/277	120/240/277	120/240/277	120/240/277	
Input Current (Amps rms @ 60hz)	12.8/7.5/6.0	9.6/6.8/4.6	7.7/4.3/3.2	5.0/2.8/2.1	
Speed Range (RPM)	300-1250	300-1250	300-1250	300-1250	
Typical Full Load Speed	1050	1050	1050	1050	
Maximum Torque (lb-in)	60	45	30	20	
System Efficiency	82%	82%	82%	82%	
Insulation System	Class-B	Class-B	Class-B	Class-B	
Motor Length	7.25"	6.75"	5.75"	5.75"	
Motor Weight (lbs)	17.9	17.9	12.2	12.2	



Electronic Hardware		
Electronics	Inverter	
Digital Interface	4 Wire - Similar To RS232	
Control Signals	12 Volt	
Lightning Surge Protection	6000 Volts	

Mechanical Information			
Bearing Type	Ball Bearing		
Shaft	0.5" x 4.0"		
Frame (Motor Diameter)	5.5"		
Mounting System Requirements	Belly Band		

Software Features		
Electronic Control	Sine Wave	
	Constant CFM	
Airflow Control Modes	Constant Torque	
	Constant Speed	
Slew Rate (Ramp)	Programmable	
Communication Protocol	ClimateTalk™	
Non-Communicating Input	Pulse Width Modulation (PWM)	
Rotation	Programmable	

For more information visit EmersonClimate.com or call 1-888-540-5540



