



# PMF Series

## Open Chassis Microprocessor-based Variable Frequency AC Drive

The PMF Series is a variable frequency drive designed to run 115 or 230 VAC motors, whether single phase or three phase, at 50 or 60 Hz. With our “Doubler Mode”, a 115 VAC line can be doubled to control 230 VAC motors. And unlike most variable frequency drives, the PMF Series will allow a 230 VAC output to be set with a base frequency of 50 or 60 Hz at 115 VAC. With the use of on-board trim pots, you can quickly set the maximum and minimum speeds, acceleration and deceleration rates, current limits, slip compensation, and DC injection braking and time. Each drive is designed with built-in isolation so it can be commanded with a wide range of analog inputs. The microprocessor-based design means it can be modified to fit OEM specific applications.

Model Number	Enclosure	Max Current (AAC)	Input			Output			Power Range		Reversing	Isolation
			Voltage (VAC)	Freq. (Hz)	Phase	Voltage (VAC)	Freq. (Hz)	Phase	HP	kW		
PMF703-3	Chassis	3.0*	115 or 230	50/60	1	0- 115	50/60	1 / 3	1/16 -1/3	.06 - .25	Yes	0 ± 5 VDC, 0 ± 10 VDC; 4-20 mA
						0-230	50/60	1 / 3	1/8 - 3/4	.10 - .60		
PMF703-5	Chassis	5.0**	115 or 230	50/60	1	0- 115	50/60	1 / 3	1/16 - 3/4	.06 - .60	Yes	0 ± 5 VDC, 0 ± 10 VDC; 4-20 mA
						0-230	50/60	1 / 3	1/8 - 1 1/2	.10 - 1.1		

\* When mounted parallel with the wall / perpendicular to the ground. De-rate to 2.5 amps when mounted in any other configuration.

\*\* When mounted to allow upwards air flow through the heat sink fins. De-rate to 4.0 amps when mounted in any other configuration.

### SPECIFICATIONS

AC Line Voltage..... 115 / 230 VAC, ± 10%, 50/60 Hz, 1Ø  
 Overload Capability ..... 200% (2X) for 1 minute  
 Standard Carrier Frequency.....1.6 or 16 kHz  
 Acceleration Time Range ..... 0.5 - 12 seconds  
 Deceleration Time Range ..... 0.5 - 12 seconds  
 Input Impedance ..... >50K Ω  
 Analog Signal Range ..... 0 ± 5, 0 ± 10 VDC; 4-20 mA  
 Ambient Temperature Range..... 0 °C - 40 °C

### TRIM POTS

Acceleration	Torque Limit
Boost	Slip Compensation
Deceleration	Brake Current
Maximum Speed	Brake Time
Minimum Speed	4mA Zero Set

### FEATURES

**Microprocessor-based:** Allows custom programming for OEMs (1 analog, 8 digital)  
**Isolated Logic:** Allows floating or grounded 0 ± 5 VDC, 0 ± 10 VDC, or 4 - 20 mA signals  
**Doubler/Step-Down Mode:** Doubles a 115 VAC input to a 230 VAC output. Can also step-down a 230 VAC input to a 115 VAC output at 50/60 Hz  
**Adjustable Base Frequency:** Can be set for a base output frequency of 50 or 60 Hz at rated output voltage, regardless of input frequency  
**Variety of Motors:** Permanent Split Capacitor (PSC), Shaded Pole, Synchronous, and 3Ø Induction  
**DC Injection Braking:** Can be used for quicker braking  
**Thermally Protects:** Drive recognizes when overheated as a result of frequent overload. It first flashes a warning code and will trip if condition persists  
**Diagnostic LEDs:** Power, Status (Undervoltage, Overvoltage, Short Circuit/Current Trip, Overheat Warning, Overheat Trip)

### ACCESSORIES

**KTP-0146:** Potentiometer kit