



**SHADED  
POLE  
MOTOR  
MATRIX**

### Custom Shaded Pole Motors

Multi Products offers a line of Shaded Pole induction motors, available with various lamination stack sizes depending on your torque requirements. Our AC motors are available in standard voltages between 24V AC and 240V AC, and for 50 or 60 Hz operation. Special voltages and frequencies are available upon request. Our shaded pole motors are available with either long-life ball bearing or spherical bushings. The AC motor stack size, winding, and shaft will be custom designed to fit your application. Options include pawl brakes for high use start/stop applications and various electrical connectors to match your wiring harness.

Multi products AC motors have the option of being UL Recognized as either Impedance Protected or Thermally Protected under UL Standard 2111, "Overheating Protection for Motors". Also available are CSA Certification and our UL Class F insulation system. Approval by European and other approval agencies can be obtained at your request.

REF.	5/8" STACK			3/4" STACK			1-1/16" STACK			1-1/4" STACK			2" STACK		
	DUTY CYCLE			DUTY CYCLE			DUTY CYCLE			DUTY CYCLE			DUTY CYCLE		
RPM	100%	50%	25%	100%	50%	25%	100%	50%	25%	100%	50%	25%	100%	50%	25%
<b>3,000</b>	1.5	2.4	3	1.8	3	4.3	3	4	5.5	3.5	5.4	7	4.5	7.5	12

The above data is based on in-oz running torque at 60 Hz. For 50 Hz applications multiply speed by 0.83. Torque values apply to motors operating in normal room ambient temperature (25 degree C) Mechanical brakes reduce above rated torques by 20%.

$$\text{DUTY CYCLE} = \frac{\text{Maximum "On Time"}}{\text{Max "On Time" + Min "Off Time"}}$$

Duty Cycle	Maximum Allowable Uninterrupted "On Time"
25%	1 Minute
50%	3 Minutes
100%	Over 10 minutes