

- PS-1B**
- 120 Volts @ 6Amps
 - Compact Size (Nema 5-15)
 - Refrigerators
 - Freezers
 - Clothes Dryer



- MPC-15KA**
- 120 Volts @ 15Amps (20Amps available)
 - Compact Size
 - Pool Pumps
 - Freezers



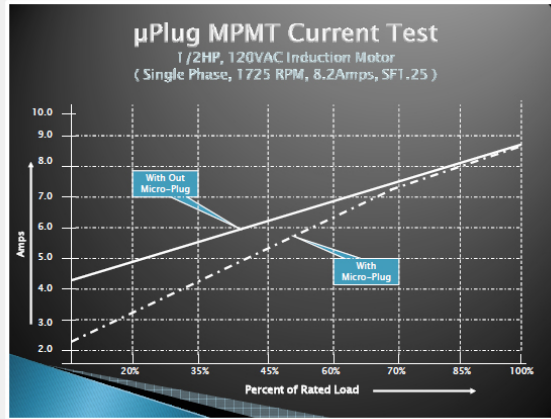
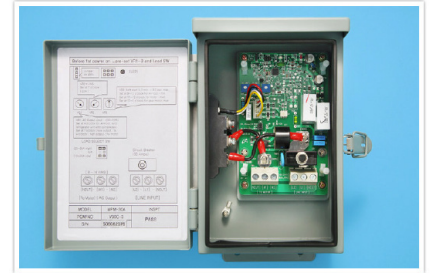
- MPM-30KA**
- 120 /208/240 Volts @ 30Amps (40Amp available)
 - Single Phase up to 6KVA (Three phase - coming soon)
 - Soft Start Control
 - Fault Detection
 - Galvanized Case



3-Year limited Warranty
Extended warranty available

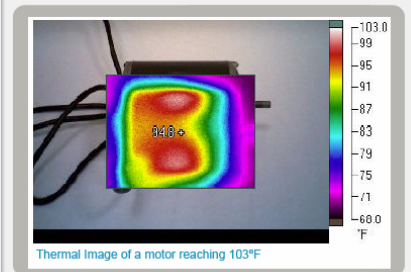
12% to 15% IMPROVED EFFICIENCY

Electric motors are estimated to consume over half of all electricity in the United States and over 70% of all electricity in industrial applications. Studies conducted by the Electric Power Research Institute reveal that over 60% of industrial motors are operating under 60% of their rated load capacity. Motors that are at idle, lightly loaded and even oversized, consume more power than required even when they aren't working.



THERMAL TEST DATA

A motor was run for 10 minutes without µPlug, and it heated up, from room temperature to 103 degrees F. Then, the µPlug was installed, and, in another 10 minutes, the motor cooled down by 10 degrees F, even while running. The conclusion is that wasted energy is given off as heat, and the µPlug reduces the amount of wasted energy and wasted heat. The thermal image below shows white spots which indicate a temperature of 103 degrees F.



Negative effects from this are energy waste, motor wear and escalated energy costs. Our SmartPlug is a high-performance microcontroller based motor manager that is used to control constant speed single and three phase motors. Many motor controllers have been developed over the years, but the SmartPlug is the first and only motor controller that uses Software as the primary energy reduction device in the world. This is a major difference because this device works well on variable loads, as compared to hardware based controllers that primarily use hardware/capacitors to manipulate the operation of motors. The SmartPlug completely controls the AC induction motor so it always functions at optimum efficiency. The microprocessor reads the amount of electricity the motor actually needs, so it automatically reduces energy, reduces current (which reduces heat in the motor), reduces stress on the motor, reduces motor vibration (runs quieter), all of which extends the lifecycle of the motor. The SmartPlug adjusts power consumption proportional to amount of load on the motor without reducing the RPM's.

BENEFITS:

- 12-15% improved efficiency
- Extends life-cycle of motors
- Utility Rebates & Incentives available
- Works on HVAC Compressors
- Reduces repair costs of the motor
- Average ROI of 1-2 years
- Soft Start Stepless acceleration
- Detects Over-current Faults
- Reduces motor burnout
- Eliminates power overload on motor

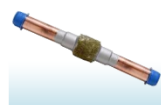
PRODUCT USES:

- Works on any Induction Motor
- Pumps
- Automated Manufacturing equipment
- Freezers
- HVAC Compressors
- Conveyors
- Variable speed / Variable Load motors
- Cold Vending Machines

COMPLIMENTARY PRODUCTS:



Articmaster HVAC Refrigerant Control



RMS-1 Efficiency Device



Flute Valve Efficiency Device