



E-SAVE
TECHNOLOGY

Product Overview

Single-Phase Motor Efficiency Controller



BENEFITS

ENERGY SAVINGS

- Optimizes energy efficiency
- Qualifies for utility rebates
- Environmentally friendly

MOTOR CONTROLLER

- Solid state motor controller
- Soft start functionality

REDUCED MAINTENANCE

- Extends motor life
- Decreases stress on mechanical systems

What is a Motor Efficiency Controller?

Power Efficiency's Motor Efficiency Controller is a solid state motor controller that is designed to dynamically optimize the efficiency of a single-phase electric motor. In constant speed variable load applications, our patented **E-Save Technology®** provides precisely the right amount of power to meet the demands the motor. In tests performed by independent third parties, the Motor Efficiency Controller has proven to save up to 60% of the energy normally used in appropriate applications.

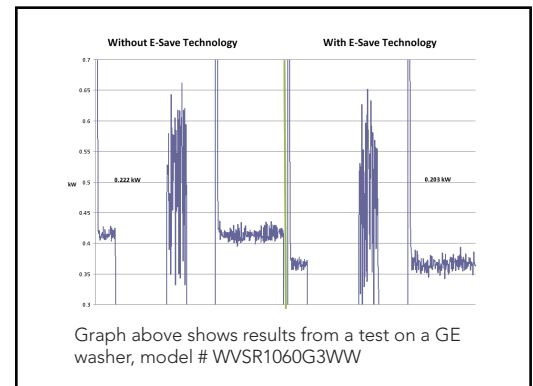
Since the Motor Efficiency Controller provides only the voltage and current required for the application, it reduces the operating temperature of the motor and thereby extending its useful life. In addition to energy savings, the Motor Efficiency Controller features soft-start functionality, which reduces inrush currents when the motor starts, and will also reduce the amount of heat generated by the motor.

What is E-Save Technology and how does it save energy?

E-Save Technology is Power Efficiency Corporation's core patented energy saving technology that uses a microprocessor and circuitry to sense the energy requirements of a motor. By monitoring both voltage and current being fed to the motor, it can precisely calculate the power the motor requires. The high speed response circuits continuously monitor the current and voltage to instantly provide the exact amount of energy the motor needs. This reduces unnecessary energy use. As a result, the motor maintains its rated speed and torque under variable loads, while reducing the energy consumption of the motor.

Single-Phase Application

Single-phase motors are typically found in residential and small commercial appliances such as refrigerators, clothes washers and dryers, air conditioning units, pumps and fans. Since single-phase motors are inherently inefficient relative to three phase motors, **E-Save Technology** provides a larger percentage savings when used with single phase motors. The energy savings will increase with lighter loads with energy savings typically starting at around 80% load.



Product Selection

Catalog Number	Amps	110V	230V	Dimensions	Weight	Frequency	Enclosure	Temperature
MEC-AA011C	11	1/2 Hp (0.37 kW)	1 Hp (0.75 kW)	2.4" x 1.0" x 1.5"	5 oz.	50 / 60 Hz	Open Type	-20 to 40 °C
MEC-AA022C	22	1 1/2 Hp (1.1kW)	3 Hp (2.2 kW)	2.4" x 1.0" x 1.5"	6 oz.	50 / 60 Hz	Open Type	-20 to 40 °C