Variable Speed Commercial Pump Duty Motor
ECM Motor, Control and User Interface

Efficiency, Simplicity & Technology Breakthrough

• Reduce Electricity Use – Up to 82% Efficiency
   Electronically Commutated Motor (ECM) can provide
   70%-90% in electricity savings vs. constant speed
   pumps.

• Simple Installation – Integrated adjustable speed
   control & motor are factory prewired. Simply connect
   the power supply. Eliminate the cumbersome wall-
   mounted drive and its associated programming and
   wiring issues.

• Technology – Manually adjust the motor speed to
   optimize the system efficiency or allow the system to
   communicate to the motor control when variable
   demand is preferred.

Traditional commercial duty pumps run at only one speed
and the one speed is high speed. Most pumps are usually
oversized for the application and they rely on induction
motor technologies which are far less efficient then ECM
technology. This results in traditional pumps being energy
hogs. ECM technology can save commercial building
owners 30% to 90% in energy savings.

This graph shows the large increase in energy consumption when
running the pump and motor at high speeds. Slowing the pump
and motor speed saves significant energy dollars, similar to better
automobile gas mileage when driving 40 mph versus 70 mph.
**Key Features and Benefits**

- Variable Speed Pump Motor
- No programming required
- GFCI Compliant Product
- UL and CSA Listing
- Allows for:
  - Improved Hydraulic Efficiency
  - Quieter Pump Operation
  - Longer Pump Life
  - Energy Payback in less than 2 Years
  - 3rd party drive to install

**Specifications**

- **Horsepower:** 1/3, ½, ¾, 1 HP
- **Volts:** 115 or 230
- **RPM:** 300 to 1800 RPM
- **Mounting:** NEMA® 56C, 56J or Square Flange
- **On Board Control:**
  - Fully Potted Electronics
  - Manual Speed Control or 0-10Vdc Control
  - EMI Compliant regarding Class B Radiated & Conductive Emissions

**Applications**

- Hydronic Pumping
- Chemical Processing
- Filtration Systems
- Water Pressure Boosting Systems
- Commercial Pumping Applications

† All marks shown within this document are properties of their respective owners.