



**EAT•N**



**Cutler-Hammer**

**MVX9000**

Product Focus

Small and Reliable  
Sensorless AF  
Vector Drives



# A little drive goes a long way.

We've struck a balance between power and functionality. Simply put, this is the perfect adjustable frequency microdrive for your low horsepower applications...and your budget.

The new Cutler-Hammer MVX9000 by Eaton Corporation is a sensorless vector ac drive designed to provide adjustable speed control of three-phase motors. This microprocessor-based drive can be programmed to tailor performance to suit a wide variety of industries, such as:

- Fans and pumps (refrigeration, HVAC, exhaust, etc.)
- Machine tool (drill press, saws, lathes, etc.)
- Manufacturing and material handling (conveyors, mixers, packaging, etc.)
- Commercial applications (laundry machines, car washes, automatic doors, etc.)

## Smooth Operator

Total motor control means the end of abrupt starts and stops. Motor efficiency and smooth low speed performance are made possible

with a 32-bit microprocessor and insulated gate bipolar transistors. Additionally, the sensorless vector control allows you to closely control the motor speed easily without encoder feedback.

## Application Engineers – An Intellectual Resource

We have industry-leading drive specialists who know the intricacies of any adjustable frequency drive application. Available to assist with configuration questions, software customization, and any other drives questions you may have. They work in tandem with our sales engineers and work directly from our Product Integrity Center. Call 1.800.809.2772 to get all the drives information you need.

## Customer Designed Service

Installation, maintenance, system studies, turnkey projects...Cutler-Hammer Engineering Services and Systems (CHESS) can satisfy your needs. CHESS is available to offer manufacturing expertise to assist

field installation of any Cutler-Hammer product, including MVX9000 Drives. Available for the maintenance of your electrical system, from complete responsibility to short-term projects. Customers gain an additional one-year warranty on any Cutler-Hammer product installed by CHESS.

## One Microdrive. Many Applications.

A variety of features have been designed into the MVX9000, allowing it to meet many different applications. Its size and simplicity make it ideal for hassle-free installation, or where size is a primary concern.

- Multiple I/O configurations
- Two analog inputs and PID for setpoint and feedback control
- Open loop applications with tight speed control
- UL and CUL listed
- Meets NEC, NEMA, and IEEE standards

## User-friendly Display

Coming standard with the MVX9000 is a digital display with operating and programming keys on a removable keypad; providing drive monitoring as well as adjustment and diagnostic information. The keys are utilized for digital adjustment and programming of the drive as well as for operator control. Separate terminal blocks for control and power wiring are provided for customer connections. Other features provided as standard include built-in dc braking and Modbus RS485 serial communications.





Actual Size

**Eaton's Cutler-Hammer business is a worldwide leader providing customer-driven solutions. From power distribution and electrical control products to industrial automation, the Cutler-Hammer business utilizes advanced product development, world-class manufacturing, and offers global engineering services and support. To learn more about Eaton's innovative Cutler-Hammer products and solutions call 1-800-525-2000, for engineering services call 1-800-498-2678, or visit [www.cutler-hammer.eaton.com](http://www.cutler-hammer.eaton.com).**

**Eaton Corporation is a global \$7.3 billion diversified industrial manufacturer that is a leader in fluid power systems; electrical power quality, distribution and control; automotive engine air management and fuel economy; and intelligent truck systems for fuel economy and safety. Eaton has 48,000 employees and sells products in more than 50 countries. For more information, visit [www.eaton.com](http://www.eaton.com).**

Eaton Corporation  
Cutler-Hammer business unit  
1000 Cherrington Parkway  
Moon Township, PA 15108  
United States  
tel: 1-800-525-2000  
[www.cutler-hammer.eaton.com](http://www.cutler-hammer.eaton.com)

**EATON**

**Cutler-Hammer**

© 2002 Eaton Corporation  
All Rights Reserved  
Printed in USA  
Form No. BR04002001E / CSS 2104  
December 2002