

Eaton Corporation is a diversified industrial manufacturer ranked among the largest Fortune 500 companies. The electrical group is Eaton's largest division and is a global leader in electrical control, power distribution, power quality, automation, and monitoring products and services. Eaton's electrical products include brands such as Cutler-Hammer®, MGE Office Protection Systems, Powerware®, Holec®, and MEM®. Eaton provides PowerChain Management® solutions to serve the needs of the industrial, institutional, IT, data center, mission critical, utility, residential and OEM markets worldwide.

PowerChain Management solutions help enterprises achieve sustainable and competitive advantages through proactive management of the power system as a strategic, integrated asset throughout its life cycle. With Eaton's distribution, generation and power quality equipment; full-scale engineering services; and information management systems, the power system is positioned to deliver powerful results: greater reliability, operating cost efficiencies, effective use of capital, enhanced safety, and risk mitigation.

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**EAT•N**

**Cutler-Hammer**

**NFX9000**

Product Focus

Low Horsepower AF Drives  
Small and Reliable



**A little drive goes a long way.**



Eaton has struck a balance between power and functionality with the perfect adjustable frequency microdrive for low horsepower applications... and your budget.

The Cutler-Hammer NFX9000 is a voltz-per-hertz AC drive that enables speed control of three-phase motors. This programmable microprocessor-based drive can be tailored to suit a wide variety of industries and applications;

- 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.)



#### Variable Frequency

The NFX9000 is a compact variable frequency AC drive for light industrial purposes (.25 to 2HP). Its compact size makes the NFX9000 flexible for installation on OEM machinery, making it a drive for all needs. This small-sized unit, with DIN rail or screw mounting options, facilitates fast and easy mounting in a separate enclosure.

- Out-of-the-box operation
- Standard I/O includes an integrated RS485 (Modbus) port
- Parameter access via integrated LED panel
- PC configurable software

#### Programming

The NFX9000 includes an easy-to-use and flexible programming process. A small parameter set keeps programming to a minimum, thanks to well-defined settings. The versatile features include:

- Automatic restart
- Full motor protection (OC, OV, OL, OT)
- Torque compensation
- Electronic motor overload
- Built-in EMI filter

#### Smooth Starting and Stopping

Customizable start and stop ramps reduce mechanical wear on motors and associated machinery. Increased motor efficiency and smooth, low-speed performance are made possible with a 32-bit microprocessor and insulated gate bipolar transistors. The open loop design allows easy motor speed control without encoder feedback.

#### Application Engineers—An Intellectual Resource

Eaton has industry-leading drive specialists who know the intricacies of any adjustable frequency drive application. They are available to assist with configuration questions, software customization, and any other drives questions you may have. Working in tandem with our sales engineers, they are located at our Product Integrity Center. Call 1.800.809.2772 to get all the drives information you need.

## NFX9000 Variable Frequency AC Drive for low HP applications.

