



# Cutler-Hammer: The Best Name in Motor Protection

LED Indicators:
Determine at a glance
the status of MP-3000
relay and trip and
alarm targets.

Help Button: Comprehensive help feature right at the device.

Display Mode and Navigation Buttons: Quickly access real time information, relay settings and historical data, with minimal keystrokes.

Restricted Access Functions Protected by Security Cover with Meter Seal:

- Program Button for inputting settings
- Emergency Override Button to allow starting motor in emergency situations\*

MP-3000

If you're looking for the very best motor protection, diagnostics and safety available from any manufacturer, anywhere in the world, your search is over. You've found the MP-3000 motor protection relay from Cutler-Hammer, the leader for decades in low and medium voltage motor protection and control.

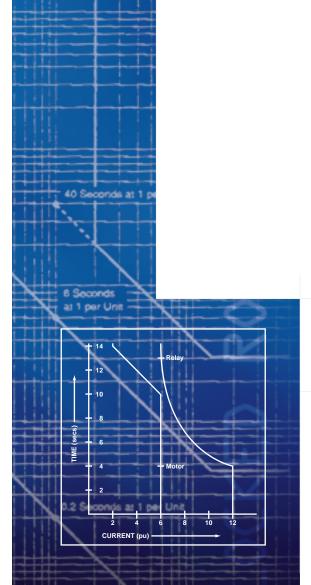
# MP-3000: Keeps Your Motor Running

## **Unique and Unrivaled**

The MP-3000 motor protection relay's core technology and advanced features are unparalleled by others on the market today. The comprehensive feature set includes the patented Intel-I-Trip™ Overload Protection, easy and accurate unit configuration, sophisticated data logging, advanced drawout capability, armed/disarmed functionality, UL 1053 certification, the industry's longest voltage sag ride-through performance, and the ability to deliver information from either the device itself or via communications.

# A Simple, Intelligent Choice

There simply is no other motor protection relay available that is within striking distance of the MP-3000's array of precisely engineered features. So while life may offer a bewildering number of options, there is one and only one intelligent choice for advanced motor protection - the MP-3000.



Intel-I-Trip<sup>™</sup> Overload Protection

Cutler-Hammer's patented Intel-I-Trip $^{\text{m}}$  Overload Protection provides a precise motor protection algorithm developed from motor manufacturer's data and includes direct measurement of positive and negative sequence currents.

# Unsurpassed Motor Protection Technology

## Intel-I-Trip™ Overload Protection

Only the MP-3000 motor protection relay has Intel-I-Trip™ Overload Protection, an algorithm created by Cutler-Hammer to develop custom trip curves for both maximum protection and maximum capacity utilization of your motor.



Developing a custom trip curve for

your motor is as simple as entering the motor manufacturer's data at the device. The MP-3000 does the hard work, instantly providing you with the optimal curve for that specific motor. This patented technology is your assurance that the motor will operate all the way up to its design limits while keeping your personnel and equipment safe.

The MP-3000's Intel-I-Trip™ Overload Protection algorithm customizes curves for each motor, accounts for temperature readings from optional RTDs and utilizes direct measurements of positive and negative sequence currents, accurately modeling motor heating effects.

With the Cutler-Hammer Intel-I-Trip<sup>™</sup> Overload Protection algorithm, you don't get the closest curve available for protecting your motor...you get the precise curve.

# Industry's Best Voltage Sag Ride-Through

Trips due to supply voltage sags unnecessarily disrupt your process and cost you money, but that's just something you have to endure with microprocessor-based relays, right?

Not with the MP-3000. It has the industry's longest voltage sag ride-through at 30 cycles and can easily withstand most power quality events, eliminating the need for expensive battery and UPS systems.

The MP-3000 will withstand a typical utility reclosure, lasting 15 to 20 cycles, without resetting the relay and disrupting your process.

So the next time the lights flicker, you can relax, secure in the knowledge that the MP-3000 will keep your motor running.

### **Advanced Data Logging**

The ability to analyze the history of your motor is as important as knowing what's it's doing right now. The MP-3000 data logging technology provides a wealth of date and time stamped information right at the device, including a log of the 100 most recent motor events, details of the 20 previous trips or alarms, and details of the last four starts. An optional PowerNet

communications system feeds this motor diagnostics information directly to your PC. Your PowerNet-ready computer can also access a motor start profile so you can compare protection curves and starting characteristics throughout the life of the motor.











Your staff is irreplaceable - protect them and your equipment from ground faults with the only microprocessor-based motor protection relay that has built-in UL 1053 certification, the MP-3000.

# Quick-Release Drawout Case

The quick-release drawout case makes removal and replacement of the MP-3000 a snap. This optional MP-3000 feature allows you to remove the relay for periodic testing or retrofits with no disruption of the process.

## **Armed/Disarmed Feature**

Changing relay settings, removing a relay for periodic testing, replacing a motor...these tasks cause worries about an unintentional trip. The MP-3000 armed/disarmed feature empowers you to face these situations with confidence.

The armed/disarmed feature allows you to safely perform maintenance tasks without the risk of taking a motor, and perhaps an entire process, off-line. When set to armed, the relay will protect the motor. When set to disarmed, the relay will indicate if a trip condition exists but will not actually trip the motor.

#### **UL 1053 Certified**

When it comes to safety, the Cutler-Hammer MP-3000 is the only microprocessor-based motor protection relay certified to UL 1053, the standard for ground fault sensing and relaying equipment. To meet this standard, the MP-3000 has demonstrated its ability to operate at low voltages and in harsh physical and electrical environments.

With competing relays, a separate relay must be added for system adherence to UL 1053. This eats up valuable panel space and costs hundreds of additional dollars per unit. So stick with the only relay with UL approved integrated ground fault protection—the MP-3000.



#### **PowerNet Communications**

The MP-3000 provides the information you need to assess how efficiently your motor is running and, in the event of a trip, to get it back on-line as quickly as possible. With the Cutler-Hammer PowerNet Power Management System, you can view this information anytime, anywhere, right from your PC, because it uses the same high-speed Ethernet TCP/IP based protocol used by your web browser. You can analyze the cause of a trip without leaving your office.

PowerNet turns simple data into valuable information, empowering you to make informed operating and predictive maintenance decisions, troubleshoot, and increase reliability and uptime.

PowerNet allows you to easily connect the MP-3000 to the rest of your power management system, or integrate into a process control, facility management or enterprise-wide information system.

