



**Today's Solutions for Yesterday's Products**

## **Electrical Aftermarket, Life Extension, Safety, and Modernization Solutions**

The installed base of Westinghouse, Cutler-Hammer, and Eaton distribution and control equipment can be found everywhere. WESCO and Eaton provide a comprehensive offering of Aftermarket, Life Extension, Modernization, and Technology Upgrade Solutions to support your installed base of electrical distribution and control equipment. All manufacturers, all vintages.



# Today's Solutions for Yesterdays Products

## WESCO and Eaton Electrical Life Extension and Modernization — Today's Solutions for Yesterday's Products

WESCO and Eaton provide a comprehensive offering of Life Extension, Modernization, and Technology Upgrade solutions to support your installed base of electrical distribution and control equipment. From simple parts to application-specific engineered solutions, Eaton continues to be an industry leader in providing cost-effective solutions to address a growing list of customer concerns.

Existing distribution and control systems are relied on every day to provide the necessary power to operations used to generate revenue. As the equipment ages, customers are forced to deal with a number of issues.

- Aging equipment
  - Does the equipment operate as expected?
  - Can the original manufacturer still support the product?
  - Is the product causing an increase in maintenance?
  - Is the product causing an increase in unscheduled downtime?
- Changing system demands
  - Can the existing product handle increased fault currents, increased harmonics, increased or changing loads?
- Emphasis on personnel safety
  - Does the product present an Arc Flash hazard, electrical hazard, or other safety concern?
- Cost of downtime
  - Cost of downtime can include lost production, lost wages, clean up, lost data, lost research, or worse.
- Reduced maintenance staffs and budgets
  - Can downsized staffs and budgets support the maintenance needs of the vintage equipment?
- Other associated costs with replacement
  - Have the true costs associated with replacement been considered, including construction and procurement expenses as well as lengthy downtimes?
- Funding
  - Does funding exist in maintenance budgets or is the solution delayed due to funding processes?

Customers have options and take varied approaches when addressing these issues. Some customers will ignore the problems with the equipment — low initial cost, high future cost. Some will maintain the equipment — with some initial expense, but can save future expense. And, some will pursue improvements or changes to the equipment — a more significant initial cost, but offers the highest level of life extension and modernization.

By utilizing Eaton Aftermarket Solutions to address these issues, many valuable benefits are realized.

- Increased system reliability
  - Reduce unscheduled downtime
- Improved personnel safety
  - Avoid costly injuries and incidents
- Maximization of return on original investment
  - Extend the life of the existing equipment without the need for replacement
- Reduced operating costs
  - Reduce maintenance and inventory costs
- Standardization of product
  - Take advantage of commonality of parts, match to new products, reduced training issues for staff
- Elimination of other associated costs
  - Avoid the expense of removing old equipment and the typical lengthy downtime
- Planned outages
  - Many solutions can be implemented over time, based on a schedule



## Motor Control Centers

- UL® Listed replacement starter and feeder buckets
- Upgrades to most current control and circuit protection technology
- Genuine renewal parts
- Add-on structures
- Designs compatible for the following manufactures' MCCs:
  - Westinghouse      — GE
  - Cutler-Hammer    — Sylvania Clark
  - Allen-Bradley    — FPE
  - Siemens            — Gould
  - Square D            — Telemecanique



## MVVR Medium Voltage Vacuum Replacement Breakers

- Vacuum roll-in replacement for outdated air magnetic technology
- Uses Cutler-Hammer VCP-W Breaker Technology
- Available with Patented SURECLOSE MOC Technology
- More than 180 designs available



## Parts & Replacement Components (for Westinghouse, Cutler-Hammer, and Eaton distribution and control equipment)

- Genuine, factory warranted replacement parts and components
- Switchgear
- Low voltage and medium voltage power breakers
- Molded case circuit breakers
- Panelboards & Switchboards
- Motor Control Centers



## Molded Case Circuit Breakers

- Replacement Molded Case Circuit Breakers for Current and Out-of-production units.
- Newly manufactured and tested to the latest applicable standards
- Physically and electrically interchangeable with the circuit breakers they are designed to replace
- UL Listed
- Available from stock in most frame sizes
- One-year warranty



## Service for Molded Case Circuit Breakers

- Only Factory Authorized repair program and facility
- Repairs made to original product specifications and manufacturing information
- State-of-the-art testing and cleaning equipment
- Exchange option enables upgrade to newest breaker technology
- Eliminate the potential risks of third party repair
- One-year warranty



## Arc Flash Solutions

- Comprehensive Arc Flash Hazard Analysis
- Arc Flash Studies
- Arc Flash Labeling
- Arc Flash Training



## Arc Flash Reduction Maintenance System™

- Increases personnel safety by reducing available arc flash energy
- Reduces levels of required personal protective equipment
- Enabled only during maintenance periods
- Simple to operate through a door-mounted lockable switch
- Easily installed on low-voltage breakers equipped with Digitrip Trip Units
- Available as an option in new Magnum DS breakers



## Universal Remote Power Racking System

- Inserts and removes power breakers from low and medium voltage switchgear remotely
- Enables close door racking in many applications
- Enables personnel to stand outside arc flash protection boundary
- Enables personnel to wear a lower level of personal protection equipment
- Small footprint and very mobile



## Digitrip Trip Unit Upgrades

- Upgrades trip systems on low-voltage power breakers with microprocessor-based true root mean square sensing technology
- Improves system reliability, accuracy, coordination, and safety
- 150 designs available to upgrade most manufacturers' breakers
- Available with the Eaton Arc Flash Reduction Maintenance System



## Power Breaker Class 1 Reconditioning

- Life extension and improved system reliability for low- and medium-voltage power breakers
- Complete disassembly, cleaning, and repair down to component level
- Restores breaker performance to original manufacture specifications

Before



After



## AR-Series Low-Voltage Replacement Breakers

- Cost-effective alternative to new switchgear
- Reduced downtime with minimal switchgear cell modifications
- Upgrade using current power breaker technology
- Designed and tested to IEEE and ANSI standards and UL® Listed
- Can be equipped with the Eaton Arc Flash Reduction Maintenance System



## Breakers as Motor Starters – VSR Series Vacuum Starter Replacement

- Increased reliability without additional equipment
- Higher short circuit ratings
- 150,000 load operation design
- Easy access designs
- Reduced maintenance costs
- Reduced downtime



Aftermarket Solutions Catalog Update Eaton's Aftermarket Catalog now has a new name! The Electrical Aftermarket Products and Services catalog replaces the former YES (Your Electrical Solutions) catalog. It's the same great reference tool to help identify existing electrical distribution and control equipment and provide a wide range of solutions available from Eaton to support it — just with a new look and a new name. As the number of engineered solutions has grown, so has the catalog. Incorporated in this latest edition are increased capabilities introduced since the last printing in 2003. For example, in order to address ongoing safety concerns, Eaton has engineered the Arc Flash Reduction Maintenance System™ and the Universal Remote Power Racking System. You'll also find new Cutler-Hammer product offerings in the area of Trip Unit Retrofit Kits, Low-Voltage Power Breakers, and Motor Control Centers, to name a few. As before, you can access the Electrical Aftermarket Products and Services catalog by visiting [www.eatonelectrical.com](http://www.eatonelectrical.com). You can also obtain a printed copy of the catalog by contacting your local WESCO Distribution Branch.

## WESCO and Eaton Aftermarket Solutions

The bottom line — Eaton Aftermarket Solutions provide you, the customer, the opportunity for an uninterrupted revenue stream resulting in increased profits. Eaton's offering of Aftermarket solutions is unrivaled in the industry. In addition to supporting the installed base of Westinghouse and Cutler-Hammer products, many solutions have been developed to support the installed base of other manufacturers, including those no longer in business. The expansive list of available solutions includes:

- Genuine molded case circuit breaker solutions
- Factory-authorized service for molded case circuit breakers
- Genuine control replacement parts and components
- LV and MV Replacement Breakers
- LV AR-Series Air Replacement Circuit Breakers, including the Arc Flash Reduction Maintenance System
- MV Vacuum Replacement Circuit Breakers
- LV and MV Breaker to Starter Conversions
- Reconditioning of breakers and contactors
- Replacement motor control center buckets and parts
- Trip Unit Retrofits and upgrades, including the Arc Flash Reduction Maintenance System
- Replacement Switchgear Doors with new metering and relay
- Arc Flash Solutions



**For more information regarding WESCO Aftermarket products and services contact your local WESCO Branch or e-mail: [Aftermarket\\_Solutions@wesco.com](mailto:Aftermarket_Solutions@wesco.com).**



WESCO distributes a full line of electrical construction products, electrical and industrial maintenance, repair, and operating (MRO) supplies, and provides turnkey integrated supply services to companies interested in outsourcing their procurement and materials management functions. WESCO operates 6 fully automated distribution centers and approximately 400 full-service Branches in North America and selected international markets. Value Creation is our ultimate goal for every customer. We can review your supply chain and inventory management systems to help you identify opportunities to reduce waste, improve profitability, and create a safer workplace through our value-added services. Let us show you new and innovative ideas to build your business!

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