## Distribution System

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Distribution System

A Commitment to the Installed Base

Our employees are committed to supporting all Cutler-Hammer® and Westinghouse® Distribution and Control equipment, no matter when it was manufactured by Eaton’s electrical business, or how long it has been in service. Our dedicated Aftermarket Organization provides products, services and expertise through a focused management team, sales engineers and technicians that work to keep customers’ equipment operating.

Eaton also offers multiple solutions to extend the life of other manufacturers’ equipment, including modernization, technology upgrades, reconditioning and repair. Support for other manufacturers’ equipment include:

• General Electric®
• Square D®
• Federal Pacific®
• ITE®
• Siemens®
• Siemens-Allis™
• Allen-Bradley®
• Allis-Chalmers

Eaton’s innovative engineering provides the highest level of life extension to support the industry’s installed base, regardless of the original manufacturer.

Replacement Components and Renewal Parts

A full line of replacement components and renewal parts is available for the existing installed base of Cutler-Hammer and Westinghouse equipment. These replacement components and renewal parts are new, not used or surplus material. The use of original production tooling, assembly fixtures, and original specifications and drawings guarantees compatibility with existing equipment.

Equipment Modernization and Upgrades

Cutler-Hammer equipment modernization and upgrades can extend the life of your existing equipment. They can economically upgrade Cutler-Hammer and Westinghouse products, as well as those of other manufacturers. These state-of-the-art upgrades are engineered to provide:

• Solutions for obsolete electrical equipment
• New technology for aging equipment
• Retrofit, repair and remanufacturing processes
• Monitoring, protection and control capabilities to your system
• Genuine new replacement components and renewal parts

Motor Control Center Bucket Retrofits

Freedom™ 2100, Advantage™ and IT, replacement starter units can be used to increase the capacity of a motor control center without investing in a completely new assembly. Competitive retrofits and new buckets are also available for other manufacturers’ units, using current Eaton technology. See Tab 14.

Breaker Reconditioning and Trip System Upgrades with Arcflash Reduction Maintenance System™

Digitrip™ RMS trip unit retrofit kits are available for Eaton, Westinghouse and other manufacturers of low voltage power breakers. These retrofits will improve circuit protection while increasing breaker and electrical system reliability. See Tab 17.

Power Breaker Replacement

New DB, DS, DSII, Magnum™ DS and SPB power breakers are available for replacement, to fill existing cells, or in a cell retrofit package for upgrading existing older low voltage switchgear. These breakers are electrically and mechanically identical to the original vintages of DB, DS, DSII, Magnum DS and SPB breakers. See Tab 17.

Switchgear Fluidized Epoxy Bus

Existing switchgear bus can be replaced or returned to our factory, regardless of the original manufacturer for reinsulation, using the custom fluidized epoxy bed process. It is available from 600V to 15 kV for switchgear, bus runs and other equipment. See Tab 17.

Medium Voltage Starter Upgrades

Vacuum contactors can be retrofitted or retrofilled into existing medium voltage air magnetic starters, achieving the benefits of vacuum technology without the expense of a completely new assembly. See Tab 13.

Replacement Vacuum Breakers

MVVR (Medium Voltage Vacuum Replacement) breakers provide a means to cost-effectively modernize existing air magnetic medium voltage switchgear while further increasing its effective life. See Tab 17.
PowerNet™ system is designed to manage the power distribution system. This integrated power management system is the ideal tool to help manage energy costs, to troubleshoot power quality problems, and to ensure the reliability and integrity of the electrical distribution system. See Tab 11.

Submetering Retrofits
Eaton’s Cutler-Hammer IQ Energy Sentinel submetering device can be easily retrofitted on Series C® breakers, or those of other manufacturers, in existing equipment. When combined with the PowerNet system, the IQ Energy Sentinel can now provide submetering at numerous levels of monitoring and energy management. See Tabs 4 and 10.

Power Management Products
Eaton’s Cutler-Hammer IQ Metering and Protective Relaying products are multifunctional communicating products based on microprocessor technology. They are designed to replace existing electromechanical devices and can be applied at low, medium and high voltage points in the electrical distribution system. These devices offer communications capabilities to link electrical distribution equipment to PowerNet Power Management Software. See Tab 10.

SPD System Retrofits
Protect solid-state devices from the damaging effects of transient overvoltages. The Eaton SPD products can be installed in low voltage distribution gear or retrofitted into existing switchboards, panelboards and motor control centers to eliminate the effects of surges before it reaches sensitive equipment. See Tabs 4 and 17.

Installation and Startup Services
Installation and startup services can be provided for Eaton equipment, as well as equipment manufactured by other organizations. See Tab 23.

Genuine LV Control Renewal Parts
Genuine factory-warranted low voltage control renewal parts are available to support the complete line of Cutler-Hammer and Westinghouse design starters and contactors. Renewal parts include contact kits, coils, overload relays and heaters, to name a few. See Tab 13.

Low Voltage High Resistance Grounding Systems
Type C-HRG provides service continuity by providing a ground path for ground current via resistance that limits current magnitude and includes a means to trace the fault source. See Tab 16.