

Education Programs & Training

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Eaton’s Training Provides Learning Resources in a Number of Formats, Including Classroom, Self-Paced Manuals and Workbooks

Knowledge Powers Success™



Experience a Classroom Where You Can Interact With Others and Feel Comfortable Asking Questions

About Eaton's Training

Training at Eaton Corporation is designed to keep you on the cutting edge of technical, product and systems knowledge. We share our knowledge resources in a number of ways — from traditional classroom to self-paced learning programs, and we're committed to ensuring that you gain maximum return from your time and investment.

Classroom Interactions

Our training provides hands-on demonstrations, interactive labs and activities, as well as collaboration and participation to create an engaging learning environment. Experienced instructors facilitate a learning environment that results in a seamless on-the-job transition of your new knowledge.

- Discover product features, benefits and applications.
- Gain hands-on experience maintaining electrical equipment at your facility or ours.
- Become proficient in Information Technology systems, such as Bid Manager or VISTALINE.
- Earn Continuing Education Units (CEUs) that apply towards professional licensing (courses that qualify for CEUs are indicated).

Our distributor courses are organized by sales segments, which are: General (All Segments), Residential, Light Commercial / Construction Focus, Industrial Facility (Assemblies and Power Quality), and Industrial Control / OEM Focus.

Knowledge levels are indicated for courses as Tiers and use the following experience requirements as a baseline:

- Tier 1 — Basic instruction for new or limited experience with the product or application.
- Tier 2 — Intermediate instruction for 1 – 3 years of experience with the product or application.
- Tier 3 — Advanced instruction for 4 – 6 years of experience with the product or application.

Tier 1 courses consist of learning materials found online as part of the 101 Basics series and several introductory instructor-led courses. The Distributor Focused Workshops will continue to be our primary Tier 2 course offering with various regional workshops that integrate our product and systems training.

For more information on these courses and others, please visit www.eaton.com/learning.

Our Learning site is where you obtain the latest schedule, location and registration information for our classes. Please verify details at this site and via your course confirmation before making training and travel plans.

Contact us at: www.eaton.com
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Segments

General (All Segments)

Introduction to Eaton Electrical Products

Code: EDUAGIEEP1

Tier: 1

Hours: 12

Description: This class begins with the basic principles of electricity and will cover generation, distribution, common electrical terms and specific Eaton products. Throughout the session, the participant will discover the various applications of electrical products and how customers use them. Informal presentations, activities and various classroom exercises will be used to explain circuit breakers, starters and more, in layman terms.

Bid Manager Introduction

Code: EDUITBM10015U1

Tier: 1

Hours: 8

Description: This 1-day, instructor-led course is an introduction to the Bid Manager application that includes setting up folders and jobs, configuring product takeoffs, customizing bill of materials and approval drawings, and job sharing capabilities.

Bid Manager Introduction (Distributor Focused Workshop)

Code: EDUITBM10115U1

Tier: 1

Hours: 4

Description: This 1/2-day, instructor-led course is an introduction to the Bid Manager application that includes setting up folders and jobs, configuring product takeoffs, customizing bill of materials and approval drawings, and job sharing capabilities.

Note: This session is designed specifically for the Distributor Focused Workshop attendees. The Bid Manager Introduction course is offered as a pre-workshop session for all regional workshops. Add 1/2-day to your registration and get Bid Manager and product training all in one week!

Bid Manager Advanced

Code: EDUITBM30015U1

Level: 3

Hours: 8

Description: This 1-day, instructor-led course focuses on the distribution equipment related to the commercial market segment. This interactive training includes reviewing one-line diagrams and demonstrates how to implement a job specification in the Bid Manager application.

Aftermarket Products and Services — Tier 3

Code: EDUDF061A2093

Tier: 3

Hours: 40

Description: Aftermarket Products and Services — Tier 3 training is the 5-day in-depth training that covers the entire aftermarket offering at the Greenwood, SC and Asheville, NC manufacturing plants. Participants are exposed to numerous solutions available to support the installed base of electrical distribution and control equipment. These solutions include life extension, technology upgrades and replacement components for equipment ranging from 120 volts to 38 kilovolts.

The products and services covered include current manufactured designs and aftermarket capabilities for:

- Eaton - Electrical Services & Systems
- High Resistance Grounding
- Low and Medium Voltage Circuit Breakers, Retrofit Kits, Reconditioning and Services
- Low and Medium Voltage Motor Control
- Low and Medium Voltage Switchgear
- Low Voltage Busway
- Metering and Automation (IMPACC / PowerNet, IQ products)
- Medium Voltage Power Fuses
- Panelboards and Switchboards

Students tour the facilities and receive "hands-on" product training.

Distributor Aftermarket Products and Services (Tier 3)

Code: EDUDADAPST3

Tier: 3

Hours: 20

Description: The Distributor Aftermarket Products and Services Tier 3 training offers a 2-1/2 day condensed version of the standard aftermarket training program in regional locations. Participants are exposed to numerous solutions available to support the installed base of electrical distribution and control equipment.

These solutions include life extension, technology upgrades and replacement components for equipment ranging from 120 volts to 38 kilovolts. The products and services covered include current manufactured designs and aftermarket capabilities for:

- Eaton - Electrical Services & Systems
- Low and Medium Voltage Circuit Breakers, Retrofit Kits, Reconditioning and Services
- Low and Medium Voltage Motor Control
- Medium Voltage Power Fuses
- Panelboards and Switchboards

Students tour local support facilities and receive "hands-on" product training.



Get Hands-on Experience with Cutler-Hammer® Products from Eaton Corporation

Industrial Control / OEM Focus

Distributor Focused Workshop: Industrial Control Products

Code: EDUDFWI

Level: 2

Hours: 8

Description: The Distributor Focused Workshop: Industrial Control Products is the third day of this 3-day regionally located workshop. Participants can attend 1, 2 or all 3 days of the workshop depending on their market focus and training need. This day of the workshop is designed to familiarize the audience with Eaton core products designed for the Industrial Control / OEM market. Participants will identify products and prepare a quotation in the Bid Manager tool. Course topics to include the following:

- Standard Controls (Pushbuttons, Indicating Lights, Sensors)
- Full Voltage Motor Control (Freedom, *IT*, *XT*)
- Reduced Voltage (Soft Starters) & Drives
- Enclosed Control
- Logic Control Products (PLCs & Graphics)

Note: That a Bid Manager Introduction course is offered as a pre-workshop session for all regional workshops. Add 1/2-day to your registration and get Bid Manager and product training all in one week!

Control Solutions Tier 2

AF Drives Workshop

Code: EDUDIAFD2

Tier: 2

Hours: 8

Motor Control Workshop

Code: EDUDIMC2

Tier: 2

Hours: 8

Programmable Logic Workshop

Code: EDUDILC2

Tier: 2

Hours: 8

Operator Interface Workshop

Code: EDUDIPM2

Tier: 2

Hours: 8

Description: The Control Solutions Tier 2 Workshops are presented as a series of 1-day sessions with each session providing focused instruction on unique industrial control product solutions. Sessions are offered individually, allowing participants to

attend only those sessions that meet their training needs and schedule requirements. All sessions follow similar formats, beginning with a comprehensive review of product applications and are generally scheduled in the following sequence:

- Session #1 — AF Drives Workshop
- Session #2 — Motor Control Workshop
- Session #3 — Programmable Logic Workshop
- Session #4 — Operator Interface Workshop

Please see the course descriptions at Eaton University for specific course details. Participants in this workshop are encouraged to attend a Distributor Focused Workshop on Industrial Control or have 1 – 3 years of industrial control experience.

Control Solutions Tier 3: OEM Panel Workshop

Tier: 3

Hours: 16

Description: The Control Solutions Tier 3 Workshop is advanced training that uses project specifications and electrical diagrams as a foundation in the development of a comprehensive sales strategy for the OEM market. Electrical codes, standards and ratings for specific markets are explored in detail in an effort to boost business activities for the OEM channel.

The following products are supported in the workshops:

- Molded Case Circuit Breakers & Supplementary Protectors
- Transformers
- Pushbuttons
- *XT* and *IT*. Contactors
- Starters
- Motor Controllers and Soft Starters
- MVX / SVX AF Drives
- ELC / ELC-GP / EZ logic controllers and PanelMate ePro displays

OEM Solutions Tier 2

Code: EDUDIOEM2

Tier: 2

Hours: 16

Description: The OEM Solutions Tier 2 Workshop is designed to provide the novice with a comprehensive review of specific electrical control product applications found in a variety of OEM market segments. Tier 1 is satisfied by the completion of 101 Basics Series modules 8, 16 – 19. The Tier 2 Workshop provides focus on solutions consisting of industrial control products applied as a system. The Tier 3 Workshop provides a detailed examination of how OEM products, applied as a system, serve the HVAC, material handling, and pump / compressor market segments.

OEM Solutions Tier 3

Code: EDUDIOEM3

Tier: 3

Hours: 16

Description: The OEM Solutions Tier 3 Workshop is designed to provide more experienced participants with a detailed examination of specific electrical control product applications found in a variety of OEM market segments. Tier 1 is satisfied by the completion of 101 Basics Series modules 8, 16 – 19. The Tier 2 Workshop provides focus on solutions consisting of industrial control products applied as a system. The Tier 3 Workshop provides a detailed examination of how OEM products, applied as a system, serve the HVAC, material handling, and pump / compressor market segments.

ProShop Certification: Enclosed Control Modification

Code: EDUAIPSHP3

Tier: 3

Hours: 16

Description: ProShop is a program that provides authorized distributors with knowledge and skills necessary for the modification of enclosed control products for their local market. Participants receive factory certification for making select modifications to standard enclosed control product.

Industrial Control / OEM Focus (Continued)

AF Drives Commissioner Certification

Code: EDUAIAFDXCOM3

Tier: 3

Hours: 24

Description: This course precedes the SVX9000 Service Provider Certification and provides factory authorized certification of personnel responsible for commissioning the SVX9000, HVX9000 and MVX9000 Adjustable Frequency Drives. The instruction provides a high level of technical detail related to the set-up and operation of the SVX9000, HVX9000 and MVX9000 drives.

SVX9000 Drives Service Provider Certification

Code: EDUAIAFDXSP3

Tier: 3

Hours: 16

Description: This course immediately follows the AF Drives Commissioner Certification training and provides factory authorized certification of personnel responsible for the repair and service of SVX9000 Adjustable Frequency Drives. The instruction provides a high level of technical detail related to the preventative and corrective maintenance of the SVX9000 drive.

Note: Participants must attend AF Drives Commissioner Certification prior to attending Service Provider certification.

Industrial Facility (Assemblies and Power Quality) Focus

Busway Tier 3

Code: EDUAPBUST3

Tier: 3

Hours: 12

Description: This 1 1/2-day intermediate to advanced course is taught in the Greenwood plant where teams of participants will measure bus and produce a quote complete with layout measurements. A product presentation and shop tour will assist with building product knowledge. Participants must complete the 101 Basics Module 14 on Busway, as well as additional online material.

IQ Meters and Protective Relays

Code: EDUDQIQMPR3

Tier: 3

Hours: 24

Description: This training course is designed to prepare the participant to use and operate IQ Meter and Protective Relay products. Participants will receive detailed instruction on the selection, specification, operation and application of each product in the IQ Meter and Protective Relay family. Instruction is designed to promote the development of creative solutions to real-life product applications.

CEU Credits – 2.4

PowerNet Basics Certification

Code: EDUCQPNB2

Level: 3

Hours: 24 – 32

Description: This provides the participant with the necessary skills and tools to configure and monitor a PowerNet system. It is designed for engineers and technicians that design, install and operate power management systems with PowerNet communications capability. It provides a basic understanding of the architecture and configuration of PowerNet software and hardware components. It is necessary to complete this training course prior to enrollment in the PowerNet Advanced Networking course.

Note: Systems Integrators / EESS are required to complete certification testing at the conclusion of this training class. The certification test requires an extra day to complete, making this training a 4-day commitment. Customers and Distributors who attend this training require only three days.
CEU Credits – 3.2

PowerNet Advanced Networking

Code: EDUCQPNB3

Level: 3

Hours: 24

Description: PowerNet Advanced Networking builds on the foundation established in the PowerNet Basics training. This is a certification course for System Integrators / EESS that addresses PowerNet as a true distributed network application through the PowerNet networking environment, Ethernet, TCP/IP, Win2K Security and the ICONICS GENESIS32® Graphics HMI application.

CEU Credits – 2.4

Light Commercial / Construction Focus

Distributor Focused Workshop: Construction Products

Code: EDUDFWC

Tier: 2

Hours: 8

Description: The Distributor Focused Workshop: Construction Products is the second day of this 3-day regionally located workshop. Participants can attend 1, 2 or all 3 days of the workshop depending on their market focus and training need. This day of the workshop is designed to familiarize the audience with Eaton core products designed for the light commercial / construction market. Participants will identify products and prepare a quotation in the Bid Manager tool. Course topics to include the following:

- Molded Case Circuit Breakers
- Panelboards
- Switchboards
- Motor Control Centers

Note: A Bid Manager Introduction course is offered as a pre-workshop session for all regional workshops. Add 1/2-day to your registration and get Bid Manager and product training all in one week!

Residential and Light Commercial Product Workshop Tier 3

Code: EDUDRLCPWT3

Tier: 3

Hours: 24

Description: This course is an in-depth review of Eaton's products for the Residential / Light Commercial (Construction) markets. Product demonstration is mixed with interactive activities as part of an engaging learning environment.

Course topics to include the following:

- Back-up Power Systems
- Fundamentals of Circuit Breakers
- Loadcenters
- Metering
- Panelboards and Switchboards
- Motor Control Centers
- Safety Switches
- Structured Wiring
- Surge Protection

Participants will improve their technical expertise in reading specifications and one-line diagrams for proper product selection, application and recognition of sales opportunities. Participants will identify products and prepare a quotation in the Bid Manager tool.

Light Commercial / Construction Focus (Continued)

Busway Tier 3

Code: EDUAPBUST3

Tier: 3

Hours: 12

Description: This 1 1/2-day intermediate to advanced course is taught in the Greenwood plant where teams of participants will measure bus and produce a quote complete with layout measurements. A product presentation and shop tour will assist with building product knowledge. Participants must complete the 101 Basics Module 14 on Busway, as well as additional online material.

Residential

Distributor Focused Workshop: Residential Products

Code: EDUDFWR

Tier: 2

Hours: 8

Description: The Distributor Focused Workshop: Residential Products is the first day of this 3-day regionally located workshop. Participants can attend one, two or all three days of the workshop depending on their market focus and training need. This day of the workshop is designed to familiarize the audience with Eaton core products designed for the residential market. Participants will identify products and prepare a quotation in the Bid Manager tool. Course topics to include the following:

- Residential Circuit Breakers
- Loadcenters
- Meter Sockets & Group Metering
- AC Disconnects & Safety Switches
- Surge Protection, Structured Wiring & Back-up Power Systems

Note: A Bid Manager Introduction course is offered as a pre-workshop session for all regional workshops. Add 1/2-day to your registration and get Bid Manager and product training all in one week!

Residential and Light Commercial Product Workshop Tier 3

Code: EDUDRLCPWT3

Tier: 3

Hours: 24

Description: This course is an in-depth review of Eaton's products for the Residential / Light Commercial (Construction) markets. Product demonstration is mixed with interactive activities as part of an engaging learning environment.

Course topics to include the following:

- Back-up Power Systems
- Fundamentals of Circuit Breakers
- Loadcenters
- Metering
- Panelboards and Switchboards
- Motor Control Centers
- Safety Switches
- Structured Wiring
- Surge Protection

Participants will improve their technical expertise in reading specifications and one-line diagrams for proper product selection, application and recognition of sales opportunities. Participants will identify products and prepare a quotation in the Bid Manager tool.

Residential Home Safety & Control Tier 3

Code: EDUDRHSC3

Tier: 3

Hours: 12

Description: Residential Home Safety & Control is designed to familiarize the audience with the core elements of Eaton's "Home Connected / Home Protected" residential product solutions. The course covers an overview of home safety trends and specific product reviews including selection, application, features, selling techniques and installation of the following home safety and control products: AFCI, GFCI, Surge Protection, Back-up Power Systems, Structured Wiring and Power Outlet Panels.

“Learning On The Go”

101 Basics Series

Tier: 1

Hours for each module: 3

Access each module and mastery exam on www.eaton.com/learning.

Description: This self-paced series is 28 separate modules that introduce the basics of various electrical products. The following chart helps guide your study plan based on your specific market focus.

Table 28-1. “Learning On The Go” — 101 Basics Series

Module Number	Course Title	Basics	Industrial Facility (Assemblies)	Industrial Control / OEM	Light Commercial/ Construction	Residential
1	101 Basics Series Module 1: Series Introduction	X	X	X	X	X
2	101 Basics Series Module 2: Fundamentals of Electricity	X	X	X	X	X
3	101 Basics Series Module 3: Fundamentals of Electrical Distribution	X	X	X	X	X
4	101 Basics Series Module 4: Transformers		X		X	
5	101 Basics Series Module 5: Fundamentals of Circuit Breakers	X	X	X	X	X
6	101 Basics Series Module 6: Medium Voltage Power Circuit Breakers		X	X	X	
7	101 Basics Series Module 7: Low Voltage Power Circuit Breakers		X	X	X	
8	101 Basics Series Module 8: Molded Case Circuit Breakers		X	X	X	X
9	101 Basics Series Module 9: Miniature Circuit Breakers and Supplementary Protectors		X	X	X	X
10	101 Basics Series Module 10: Loadcenters				X	X
11	101 Basics Series Module 11: Meter Centers				X	X
12	101 Basics Series Module 12: Safety Switches		X	X	X	X
13	101 Basics Series Module 13: Panelboards and Switchboards		X		X	X
14	101 Basics Series Module 14: Busway		X		X	X
15	101 Basics Series Module 15: Power Management		X		X	
16	101 Basics Series Module 16: Fundamentals of Motors and Motor Control	X	X	X	X	
17	101 Basics Series Module 17: Pushbuttons and Stacklights		X	X		
18	101 Basics Series Module 18: Terminal Blocks, Relays and Timers		X	X		
19	101 Basics Series Module 19: Starters and Contactors		X	X	X	
20	101 Basics Series Module 20: Adjustable Frequency Drives		X	X	X	
21	101 Basics Series Module 21: Reduced Voltage Starters		X	X	X	
22	101 Basics Series Module 22: Packaged Control: MCCs and Enclosed Control		X	X	X	
23	101 Basics Series Module 23: Sensors, Limit Switches, Proximity and Photoelectric		X	X		
24	101 Basics Series Module 24: Programmable Logic Controllers (PLCs)		X	X		
25	101 Basics Series Module 25: Electronic Operator Interface		X	X		
26	101 Basics Series Module 26: DeviceNet		X	X		
27	101 Basics Series Module 27: Medium Voltage Switchgear Assembly		X		X	
28	101 Basics Series Module 28: Surge Protection and Power Conditioning		X	X	X	X
29	101 Basics Series Module 29: Transfer Switch Equipment		X		X	X

Note: Distributors and customers can access the 101 Basics Series modules and mastery exams at www.eaton.com/learning.

**“Learning On The Go”
(Continued)*****E-Commerce and Product Web Sessions*****Code:** EDUIT-EWEB**Tier:** 2

Description: This instructor-led Web and teleconference training session combines product and e-Commerce topics. The session goal is to discuss a product and then demonstrate the relevant tool, such as how to do a Bid Manager TakeOff. Visit www.eaton.com for the monthly Web session schedule and registration.

Product eXpert

Need an answer to a product question? We have a solution... Product eXpert!

Product eXpert is a knowledgebase for product and technical problem resolutions. It houses troubleshooting information, problem and error codes and resolutions, FAQs and more. Currently, Product eXpert contains component-related technical solutions for employees, distributors and customers. You access Product eXpert from the main page of the Eaton Internet or via the “Learning” tab.

Vistaline on the Web — Web-Based Training (WBT)

The Vistaline on the Web (VOTW) Web-based training is a self-paced training tool that teaches you how to use basic Vistaline on the Web functions to locate products, place orders, check order status, and more. You can find the online tutorial by logging into the Distributor Resource Center.

Power Systems Training

Eaton - Electrical Services & Systems is ready to deliver on-site and customized training for you and the people of your organization who maintain and manage your electrical power distribution systems. Because our training is conducted by the same engineers who perform short-circuit, coordination and power quality studies, and troubleshoot equipment on a daily basis, you gain the most up-to-date information and learn the latest techniques and procedures. This training has benefited more than 6,500 people and our reach is international. For additional information or a quotation of price, contact your local Eaton distributor, sales office, Services & Systems office, e-mail address is EETraining@eaton.com, or 724-779-5852.

Eaton has been reviewed and approved as an Authorized Provider of continuing education and training programs by the International Association of Continuing Education and Training. We are Authorized Provider number 1000996.

Understanding Arc Flash

Code: EDUCSARCFLASH1

Duration: 1 Day

CEUs: 0.8

Description: In 1994, the Department of Labor added new regulations to Title 29 of the Code of Federal Regulations, "An employer shall ensure that each employee who is exposed to the hazards of electric arcs does not wear clothing that could increase the extent of injury." The 2004 Edition of NFPA Standard 70E contains new information and defines ATPV, Hazard Risk Category and Flash-Protection Boundary. This training program brings you a practical understanding of how ATPV and Incident Energy Exposure Value are determined and how you use them to select Flame-Resistant Clothing and Personal Protective Equipment.

Electrical and Arc-Flash Safety

Code: EDUCSES1

Duration: 1 day

CEUs: 0.8

Description: Article 130 of the 2004 edition of NFPA Standard 70E contains revised recommendations for protecting workers from the hazards of arc flash. IEEE 1584 sets the industry standard for evaluating the hazards in a power distribution system and its equipment. 29CFR1910 subparts R and S tie these standards and governmental regulations for electrical safety together. The Electrical and Arc Flash Safety training program from Eaton Electrical Services & Systems provides electricians, technicians, maintenance managers, safety managers and engineers the information they need to follow the standard practices of government and industry. Programs presented in Canada include a review of Provincial regulations. Each training-program participant receives a comprehensive classroom reference manual.

Power Quality Monitoring

Code: EDUCSPQM2

Duration: 2 Days

CEUs: 1.6

Description: The Power Quality Monitoring program is designed for engineers and technicians who need to know how to identify power quality problems or perform measurements of sags, swells, voltage transients, harmonic distortion, and voltage flicker. More than 50% of the time in this training program is dedicated to hands-on practice using a variety of popular models of portable and panel-mount power monitors. Students are also encouraged to bring their own analyzers to learn new uses for them in our state-of-the-art training laboratory. Each training program participant receives a comprehensive classroom reference manual.

Power Quality and Grounding

Code: EDUCSPQG3

Duration: 3.5 Days

CEUs: 3.0

Description: Power Quality and Grounding is designed for engineers and others who are responsible for maintaining the reliable and efficient operation of industrial or institutional power systems. Using case studies, classroom exercises and hands-on experience, this training program provides the information you need to evaluate power-quality problems and use popular brands of power-quality analyzers and computer software. Each program participant receives a classroom reference manual and the IEEE Emerald Book, "Powering and Grounding Sensitive Electronic Equipment.

Distribution Systems Analysis

Code: EDUCSDSA2

Duration: 3.5 Days

CEUs: 3.0

Description: Distribution Systems Analysis is designed for engineers and others who are responsible for the specification, installation or maintenance of power system equipment. Using classroom exercises and demonstrations of popular power systems analysis computer programs, this training program reviews all of the up-to-date issues of power systems engineering. Relationships to ANSI/IEEE, and other industry standards are explained throughout the program. Each program participant receives a classroom reference manual and the IEEE Red Book, "Electrical Power Distribution for Industrial Plants."

Protection and Coordination

Code: EDUCSPC2

Duration: 3.5 Days

CEUs: 3.0

Description: Protection and Coordination is designed for engineers and others who are responsible for designing or maintaining industrial and institutional power distribution systems. This training program explains the rules and techniques of coordinating protective relays, power fuses and circuit breakers. More than half of the program time is dedicated to practical exercises and reviewing examples developed using popular versions of computer software. Each participant receives a classroom reference manual and the IEEE Buff Book, "Protection and Coordination of Industrial and Commercial Power Systems."

Switchgear Maintenance

Duration: Customized to your need

Description: Switchgear Maintenance is designed for engineers, technicians and others who are responsible for maintaining low-voltage and medium-voltage power circuit breaker switchgear. Emphasis is on inspecting, evaluating tests and understanding the engineered safety systems. Each participant will receive a comprehensive classroom reference manual. We can teach the operation and maintenance of Cutler-Hammer and other brands of switchgear.

Cutler-Hammer is a federally registered trademark of Eaton Corporation. GENESIS32 is a registered trademark of ICONICS, Inc.

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