

Medium voltage metal-clad
switchgear solutions

Proven performance Pioneering technology Eaton Power Center



EATON

Powering Business Worldwide

The protection you expect, the service you deserve



Eaton engineers the structure and all of the components for our medium voltage switchgear for protection, isolation and control you can count on. Eaton circuit breakers improve power reliability, use clean vacuum technology, and feature compact size and user-friendly operation.

Eaton's Electrical Services & Systems provides support from commissioning to full turnkey project assistance. With more than 800 engineers, Eaton service means support at the ready, 24 hours a day, 7 days a week, 365 days a year.

Leverage years of Eaton research, design and testing to deliver reliable power for your critical electrical power management needs.



Complete switchgear solutions

With unparalleled knowledge of electrical power management across industries, the experts at Eaton deliver customized, integrated solutions to solve your most critical challenges every day.

For 100 years, Eaton has pioneered industry-leading technologies to become a clear leader in electrical power management.

Today, Eaton is delivering reliable, efficient and safe power distribution equipment for utility, commercial and industrial installations.



Eaton's Omaha Power Center delivers industry-leading metal-clad switchgear power centers, including:

- Single-source manufacturing of switchgear and enclosures
- Traditional and arc-resistant solutions for enhanced safety
- Welded cubicle construction for maximum reliability
- Custom design to meet unique customer specifications
- Environmentally responsible vacuum interruption technology

Engineered and tested for harsh environments

Eaton metal-clad medium voltage switchgear, available in 5–38 kV ratings, provides robust centralized control and protection of power equipment in utility, commercial and industrial applications.

Custom-engineered switchgear is designed to exceed IEEE® switchgear design and manufacturing standards. A full range of robust solutions meets the specific needs of your application and environment.



Room to work—maintenance-aisle construction

Outdoor switchgear power centers provide a temperature and humidity controlled environment for protection of critical electrical equipment. Space is provided to allow equipment to be operated and maintained irrespective of external weather conditions. A battery or control room can be added at either end of the lineup.



More gear in less space—center-aisle design

Switchgear power centers can be provided with a center aisle to accommodate larger lineups or special busing configurations. Internally mounted bus duct can be provided, when necessary, for interconnection of buses. Additional workspace for battery systems and other controls can also be provided as required.



For tight spaces—aisle-less switchgear

An outdoor aisle-less switchgear configuration minimizes space in the substation.

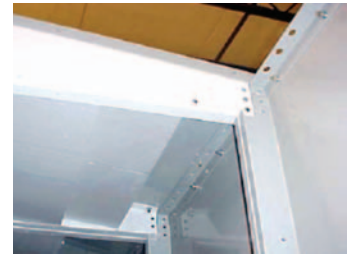
Uncompromised design

Eaton is leveraging over 60 years of industry-leading expertise delivering outdoor switchgear engineered to withstand the harshest environments.

The switchgear assembly is designed as an integral part of the outdoor housing. Exterior roof and wall panels are formed of 11-gauge steel sheets to create a self-framing structure. Roof caps—also made of 11-gauge steel—cover each roof panel joint for a permanent weather seal. Additionally, outdoor switchgear designs feature:

- A custom-fabricated structural steel base that allows installation on pad, pier or perimeter foundations; existing foundations can be re-used
- Corrosion-resistant epoxy base coating
- High-quality powder coat finish for superior performance
- IEEE-tested enclosure that ensures weatherproof integrity

The wall panels are formed, bolted together and mounted on a structural channel base with steel plate welded in place to create the floor.



Arc-resistant switchgear
For applications requiring enhanced equipment protection, Eaton arc-resistant switchgear is tested and verified to meet IEEE Type 2BC classification standards.



Corrosion-resistant exteriors
Stainless steel or marine-grade aluminum exterior skins and structure bases can be provided for installations in corrosive environments.



Eaton Power Center
Custom-engineered substation solutions.



Electrostatic powder coating
Applied to all surfaces prior to assembly.

Engineered for maximum reliability

Switchgear cubicles use welded 11-gauge construction to ensure that the enclosure remains “square” and that breakers rack-in correctly over the life of the switchgear. Individual structures are then bolted together to form a continuous lineup.

Switchgear doors are made with double returns and welded edges to prevent warping and to ensure that latches operate appropriately. After cubicles are bolted together to form a lineup, there are two 11-gauge steel inserts between each vertical section to prevent propagation faults from one cubicle to the next.



Breaker compartment

Interiors are polyester powder-coated in a white finish for maximum visibility in an enclosed space.



Buswork

Features fluidized bed epoxy insulated copper bus. Bus supports are molded from high-strength and track-resistant cycloaliphatic epoxy.



Non-segregated bus duct

Available for either indoor or outdoor configurations, offering a coordinated package from transformer to switchgear.

Eaton is dedicated to ensuring that reliable, efficient and safe power is available when it's needed most. With unparalleled knowledge of electrical power management across industries, experts at Eaton deliver customized, integrated solutions to solve our customers' most critical challenges.

Our focus is on delivering the right solution for the application. But, decision makers demand more than just innovative products. They turn to Eaton for an unwavering commitment to personal support that makes customer success a top priority. For more information, **visit www.eaton.com/electrical**.

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Printed in USA
Publication No. BR02104001E / Z12446
August 2012

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