

IEC Low Voltage Power Distribution and Motor Control Center

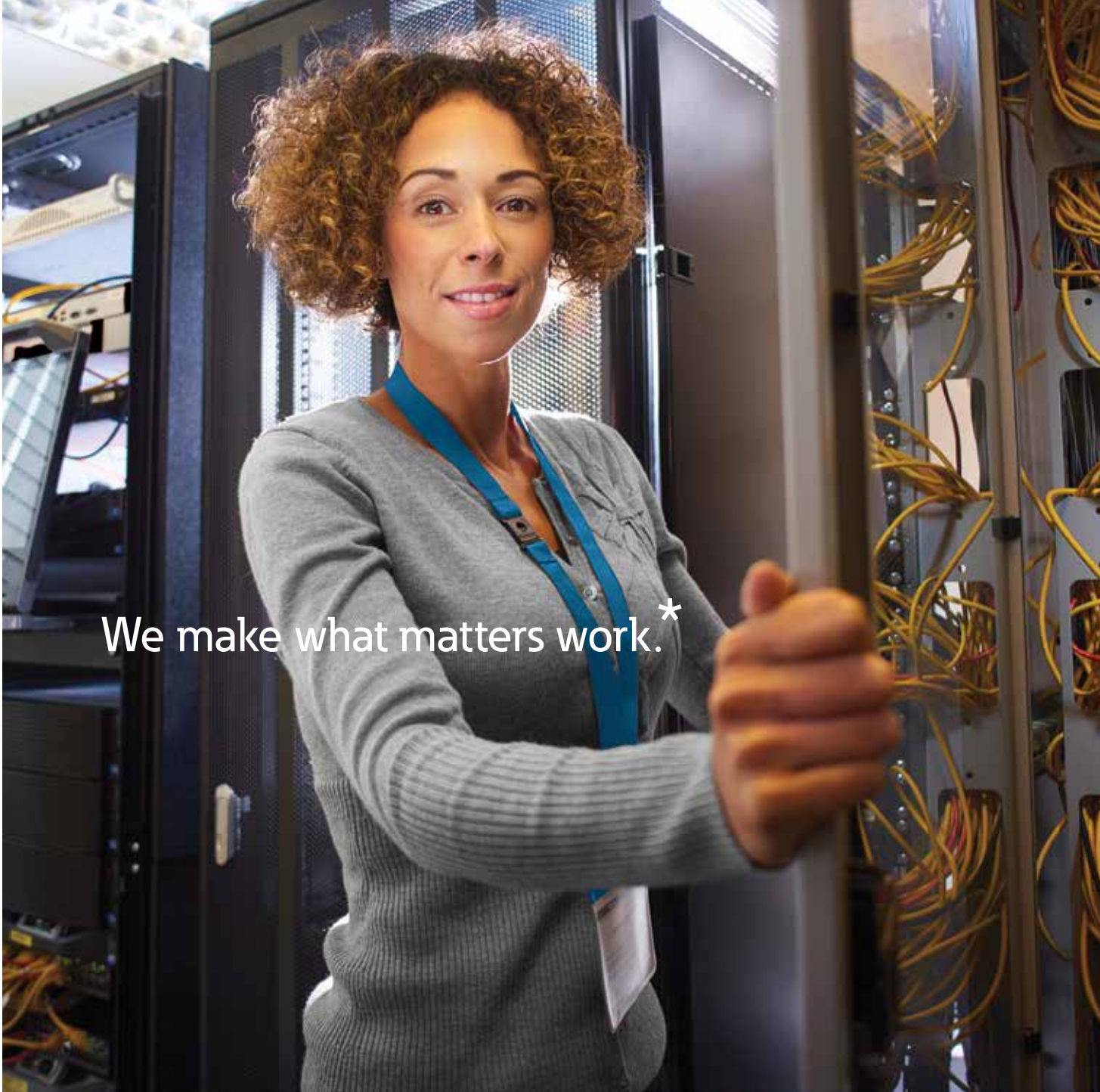
xEnergy Main



Flexible switchgear solutions
maximizing safety & uptime

EATON

Powering Business Worldwide



We make what matters work.*



At Eaton, we believe that power is a fundamental part of just about everything people do. That's why we're dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because this is what really matters. And we're here to make sure it works.

To learn more go to: [Eaton.com/whatmatters](https://www.eaton.com/whatmatters)

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100 years of Eaton

Eaton has been providing solutions to your challenges for over a century.

xEnergy Main has been bringing safety and efficiency to your business for decades.

Eaton has more than a century of experience in the design and manufacturing of low voltage systems. This experience and expertise came together to develop the latest generation of power distribution low voltage switchgear: xEnergy Main. Eaton has used their state of the art switching and distribution components within the xEnergy Main platform to provide a fully integrated and tested solution. Eaton's reputation in the industry is built on the legacy of brands like Cooper, Cutler-Hammer, Bussmann, Crouse-Hinds, Westinghouse, Holec, MEM and Moeller. xEnergy Main is manufactured and assembled in Eaton facilities or by our licensed panel builders worldwide. Eaton can offer a comprehensive service tailored to customer requirements, ranging from consultancy, engineering, and total project management. xEnergy Main provides a state-of-the-art solution for power distribution and motor control in a single low voltage platform.

xEnergy Main Application

xEnergy Main is a complete design verified system used in a vast range of applications, especially in the power distribution of commercial buildings. In conjunction with Eaton's components and sub-distribution system, it offers what is needed for a reliable power distribution system. xEnergy Main and Eaton's UPS system provide maximum performance for data centres when power quality is of importance. The safety features and reliability of xEnergy Main keep the processing industry moving and working.



Energizing commercial buildings for maximum safety and efficiency



Energizing data centers for maximum performance and reliability



Energizing the processing industry for optimum performance and safety



xEnergy Main

Efficient, safe and reliable.

xEnergy Main is a IEC 61439 certified low voltage power distribution and motor control solution up to 7100A. It delivers reliable power distribution for commercial and industrial applications. The innovative design combined with Eaton's expertise delivers a flexible system that minimizes downtime, and optimizes uptime by preventing unscheduled process interruptions. It provides maximum safety for personnel and equipment. The flexible design of xEnergy Main assures easy, safe and time-efficient maintenance of the system.



Easy to build

xEnergy Main's flexible design, allows you to build a power management solution tailored to the requirements of your business. It is suitable for operations where space is limited and is easy and fast to assemble. It ensures maximum uptime for your processes.



Reliable and safe

Eaton understands how important safety is for your people and equipment. Our state of the art safety technologies, supports your commitment by delivering a highly reliable design, that does not compromise in safety.

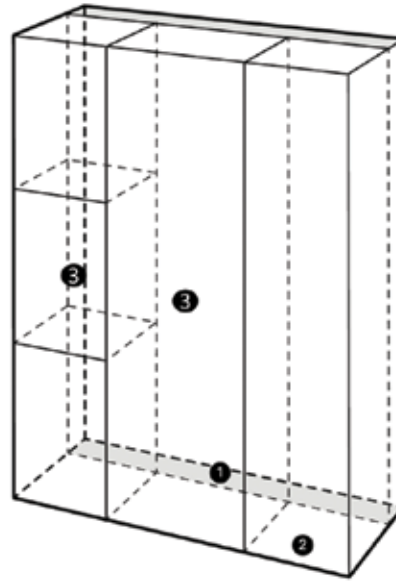


Complete offer

Complete product design is certified by Dekra Laboratories in accordance with IEC 61439. The system includes a full range of high-quality Eaton components from ACBs, MCCBs, control equipment, digital solutions, PFCs and motor control applications.

Basic design

xEnergy Main provides the perfect balance between cost-efficiency and high quality. Eaton understands the constantly increasing demands on your business and has created a flexible, easy to operate and highly reliable design to meet these needs. xEnergy Main is a modular, custom-build construction that can easily be fitted to your specific technical and safety requirements, while optimizing space efficiency.



The xEnergy Main panels are designed with three major compartments:

1. The busbar section. The main busbar chamber is fully segregated and can be located in the back (top/bottom position) of the structure or available as a top configuration (top/middle/bottom position).
2. The cabling section is based in a separate fully segregated cable chamber at the rear or besides the equipment section.
3. The equipment section can be found at the front where the functional units are fitted.

Each enclosure has a self-supporting, electrolytic galvanized steel structure. The 2 mm thickness of the frame and doors ensure maximum security, stability and longevity of the assembly. All walls, doors and covers are powder coated either in a standard RAL 7035 color or customized in a color of your choice.

The standard flat-pack delivery allows for an efficient and flexible assembly process while optimising transport options. Value-added services such as pre-assembled panels, pallets kiting system or Eaton's self-manufacture switchgear are also available.





Flexible by design

Modular design and small footprint

Variable widths for cable compartments

Generously sized cableways are available for top and bottom cable entry. Depending on the application, the cable compartments for wiring range from 175 mm up to 600 mm wide.

Suitable for cable and busbar connections

xEnergy Main is designed for flexible connection methods: whether cables or busbar trunking systems. Both xEnergy Main and multiple busbar trunking systems are verified by testing according to the IEC 61439-2 and IEC 61439-6.

Switchgear that is easy to upgrade and extend

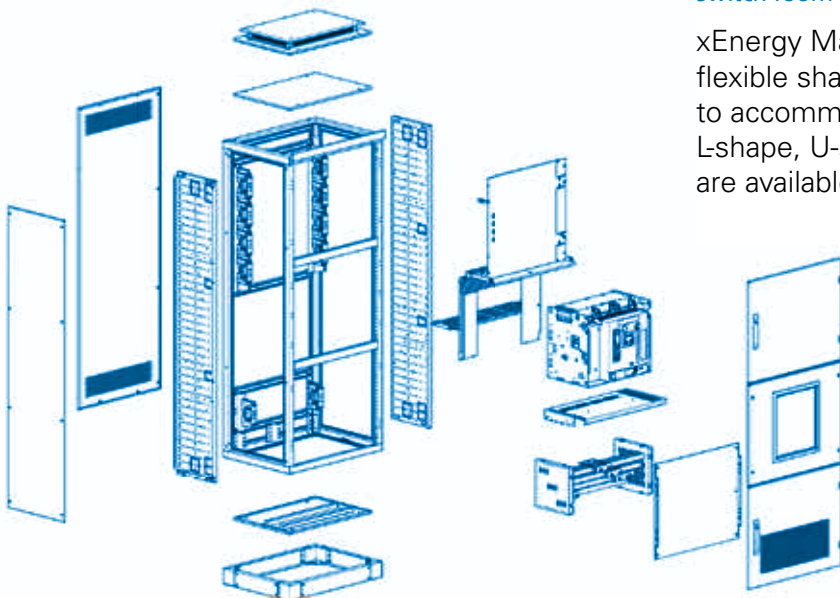
The switchgear can be extended at either end whenever this is required. So, when the demand for the switchgear changes, it can be upgraded, and panels can be added with minimal process interruptions.

Different positions for the main and distribution busbars

The switchgear can be extended at either end whenever this is required. So, when the demand for the switchgear changes, it can be upgraded, and panels can be added with minimal process interruptions.

Corner cubicles allow for flexible line-ups to suit the switch room

xEnergy Main can be manufactured in various flexible shapes, and come with corner cubicles, to accommodate stitching rooms of all sizes. L-shape, U-shape or back-to-back configurations are available to fit the switch room layout.



Main busbar design

The main busbars of xEnergy Main are arranged in a separate compartment to ensure the correct form of separation and a maximum degree of internal protection. Standard flat copper saves our clients time and money as it does not require any maintenance. According to project specifications, aluminum and copper-clad aluminum modifications are available.

Clients can choose the location of access points 'Front cable access' accommodate applications where the panels need to be located adjacent to a rear wall, with the main busbar in the back. Alternatively, the system can be arranged for rear access. A 'single line structure' can give all-around access to panels for operation and cabling using the busbar top-arrangement, with the bars positioned on the top, middle or lower part of the panel. Arrangements for 'back to back' configurations are possible when using split busbars, as well as U shapes with corner sections, when space is constrained.

Busbar back design



1. Main incoming feeder unit
2. Flushed key lockable door handles
3. Ventilation
4. Mounting plinth
5. Outgoing cable connection compartment
6. Outgoing feeder
7. Empty compartment

Flexibility with BBB design

The Busbar back design offers front access to cables and components, enabling easy access installation and wiring. The designs are based on the standard copper specification EN 13601-Cu- ETP- R250. A back-to-back solution with split busbars is available.



Busbar top design



1. Main busbars at top position
2. Incoming or outgoing feeder unit
3. Outgoing feeder
4. Main busbars at middle position
5. Riser panel
6. Main busbars at bottom position
7. Mounting plinth

Open frame structure

An essential feature of the busbar top configuration is the patented open frame structure with a freely selectable rail position. The incoming cubicles provide space for special versions with up to 4 current transformers per phase.



xEnergy Main was designed to optimize the performance of the busbar system to get the best ratings with the smallest quantity of copper up to 7100 A. For dropper distribution bars, different arrangements up to 2000 A are available. The bars are supported for Eaton busbar holders (made from fiberglass) in various configurations and dimensions.

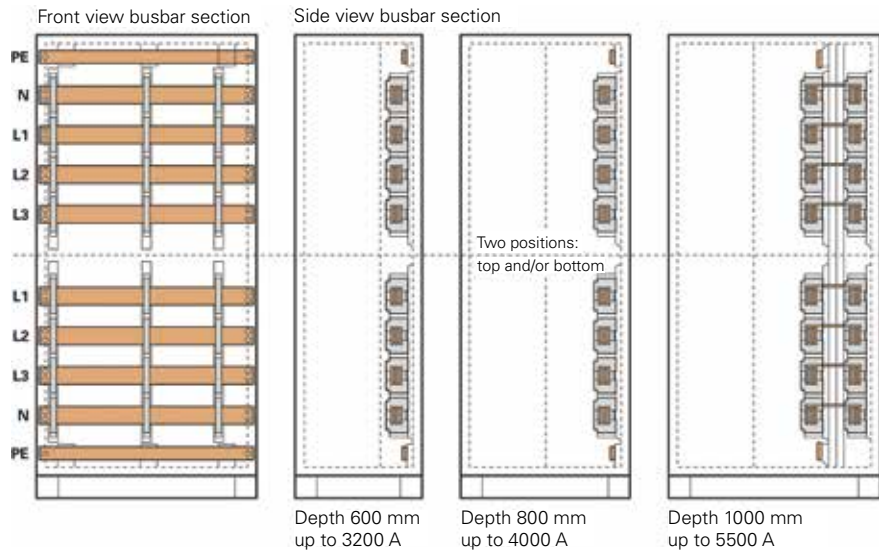
Main busbar systems

Busbar type	Positions	Current	Short circuit capacity		
		I_n	$I_{cw}(1s)$	$I_{cw}(3s)$	I_{pk}
Busbar Back (BBB)	Top / Bottom	800 A - 5500 A	up to 100 kA	up to 50 kA	up to 220 kA
Busbar Top (BXT)	Top / Middle / Bottom	800 A - 7100 A	up to 105 kA	up to 66 kA	up to 231 kA

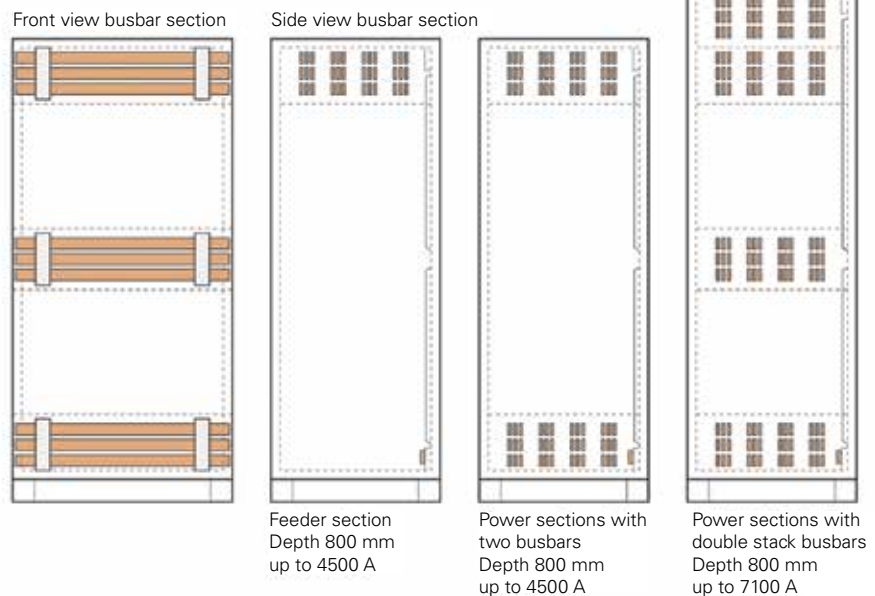
Main busbar systems

Busbar type	Frame rating	Depth
Busbar Back (BBB)	up to 3200 A	600 mm
Busbar Back (BBB)	up to 4000 A	800 mm
Busbar Back (BBB)	up to 5500 A	1000 mm
Busbar Top (BXT)	up to 7100 A	800 mm

Busbar back configuration (BBB)



Busbar top configuration (BXT)



Intelligent system platform



xEnergy Main System is organized in an intelligent platform where various modular functional sections can be configured and combined side by side to solve all the complex power distributions and motor control engineering challenges.

XP Power Section

- Used as incoming, coupler or outgoers
- Functional section for ACB and MCCB breakers
- Different arrangements of breakers in 3 or 4 pole, fixed or withdrawable.

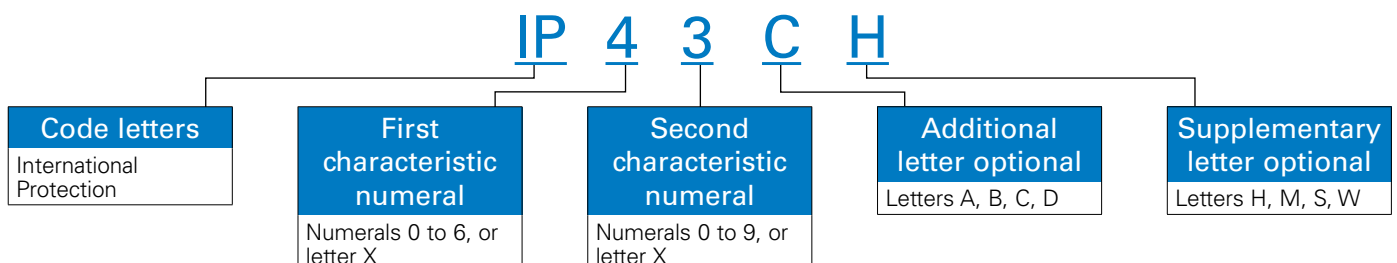
XF Fixed Distribution Section

- Power distribution feeders up to 1250 A;
- High density option with box solutions application in Form 4B;
- Feeders using breakers and fuses;
- Cost-effective solution in Form 2B.

Degree of ingress protection

As standards evolve and clients demand higher levels of reliability and safety, Eaton meets these market requirements with the latest technology. When it comes to system and process integrity, additional safety and uptime improvement features are included in the xEnergy Main designs.

According to the standards, the degree of ingress protection, or IP as it is more commonly known, is an essential aspect of any switchgear design. The IP degree of protection indicates the level of protection of the housing, access to dangerous parts, entry of solid foreign bodies and penetration of water. xEnergy main is designed to offer IP31, IP42, IP43 and IP55 solutions.





XR Plug-in Distribution Section

- Plug-in feeders using breakers and fuse technology, where both can be combined;
- Easy maintenance and reduced down times;
- PIFT and QSA fuse technology;
- Expansion of height and width possible.



XW Withdrawable Distribution Section

- Motor starter drawers up to 250 kW;
- Drawers to be replaced under life conditions;
- Remote monitoring and iMCC solutions using SWDT;
- Shutter system for even more safety.

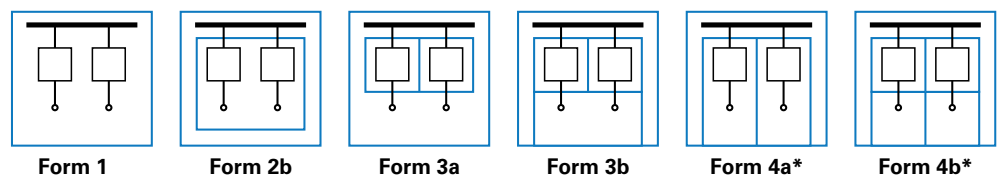


XG General Section

- Empty section for general equipment, empty sections for individual mounting units with wide range of widths;
- Power Factor Correction solutions;
- Suitable for control and sub-distribution applications.

Form of internal separation

IEC 61439-2 defines the various forms of internal separation. The form of internal separation determines how busbars, functional units and terminals are separated from each other. xEnergy Main is designed to provide separation in forms 2b, 3b, 4a and 4b solutions.



	Form 1	Form 2b	Form 3a	Form 3b	Form 4a*	Form 4b*
Busbars (main + distribution) are separated from functional units	✓	✓	✓	✓	✓	✓
Functional units are separated from other functional units		✓	✓	✓	✓	✓
Terminals are external to functional units		✓	✓			✓
Terminations to functional units are separated from each other		✓			✓	✓
Terminals are separated from the busbars	✓			✓	✓	✓
xEnergy Main supported forms of separation	✓			✓	✓	✓



Power section

The XP power sections are available as an incomer, feeder or bus-coupler section with Air Circuit Breaker (ACB) and Molded Case Circuit Breaker (MCCB). XP sections are available in both busbar configurations, back and top, with IP ratings up to 55 with different configurations allowing the best allocation of power within smaller space.

At Eaton, we know that every square centimetre matters. Stack breakers allow you to optimize space and distribute power in the smallest space possible. Different combinations of ACBs and MCCBs are available for coupler and feeder applications. Clients have the option to customize the usage of the breakers, reduce the quantity of copper used and consequently reducing the project's costs. All the configurations aim to create enough space for cabling and copper work.

Busbar trunking systems

xEnergy Main is designed and standardized to be used with different busbar trunking systems.

Its power sections equipped with fixed or withdrawable IZMX16, IZMX40, IZM26 and NZM4 breakers can be connected with flange units from different busbar trunking systems. Different grid configurations are supported, entering the power section from either the top or bottom.

Eaton offers our Licensed Panel Builders detailed Build Assemblies documentation to help our partners at the busbar trunking installation and connection.





xEnergy Main operates with NZM and IZM Eaton series, tested according to IEC 60947, up to 6300 A and 150 kA breaker ratings. For higher current projects, we can achieve the maximum ratings of Eaton's ACBs with values up to 50C in IP55 to allow installation in areas of the world with the harshest climates. All Eaton's ACBs and MCCBs came with a PXR trip unit offering digitalization and more safety technology. Configurations with self or forced ventilation are available, all with 3rd partner certification.

Distribution Sections

xEnergy Main system is available in functional outgoing section units with withdrawable, fixed and plugin compartments. Flexibility in design allows the switchgear to be adjusted according to the customer's requirements. The different solutions combine high personal security, short downtime and ease of operation to help contractors and designers achieve all required specifications and parts.

Personal Security



Personal Qualification

Distribution Sections

XF - Fixed Distribution Section

Our XF models allow you to reduce costs while still providing you with a flexible solution that can be engineered to fit your specific needs. You can choose between 3 and 4-pole fixed, plug-in or withdrawable breakers with XNH fuse or motor protections, which can be positioned vertically as well as horizontally.

Our Eaton engineers have designed two XF compartment models to offer greater flexibility and cost-efficiency - Fixed Box Solution and Fixed Universal Section. The Box Solution allows you to operate with a closed door with the help of a rotary handle and provides ingress protection of IP55. In contrast, the Fixed Universal Section helps to lower cost by offering a form 2b separation, including fully NH vertical fuses, using Eaton's SL fuse line.

Fixed SL Fuses



Fixed Universal Section



Fixed Box Solution



XR - Plug-in Distribution Section

To reduce the downtime of your systems even further, our removable solution allows for an exchange of the breakers under live conditions. It is engineered with an easy-to-maintain, direct plug-in connection to the dropper busbars. The power distribution feeders can be equipped with 3 or 4-pole removable breakers and fuses (PIFT and QSA module technology) up to 6300 A. Depending on your needs, the compartments can be designed with a form of separation between 2 and 4 and also cassettes for DIN-rail devices offer a wide range of applications.



XW - Withdrawable Distribution Section

Process changes such as increasing motor power rating or exchanging compartments may require on-site modification of motor starter circuits or reconfiguration of compartments. The XW design of xEnergy Main can meet these requirements under live conditions while ensuring maximum protection for your personnel.

The withdrawable sections can be equipped with NZM circuit breakers up to 400 A and motor starters up to 250 kW and can be easily exchanged without disconnecting any power or control cabling. They are designed around safety, ease of operation using Eaton's patented mechanical test position, ergonomic design and flexibility.

Furthermore, the Smart-wire DT technology and the C400-based communication solutions, enable remote monitoring and control, and the carefully engineered shutter system provides extra safety and protection. The xEnergy Main switchgear can be further upgraded with iMCC capabilities, which allow the customer to wire RJ45 and different types of communication cables into the drawer units and transform their switchgear into a digital solution. Our very cost-effective XW systems have different power and auxiliary cables capabilities.



XG - General Section

In addition to the main incoming and outgoing sections, our clients have the option to extend their xEnergy Main switchgear with an additional empty compartment for general equipment. The general sections we offer have a wide range of widths - you can install various applications with form 2 or lower level of separation, and no dropper busbar connection such as Variable Frequency Drives, PLC, control panel, DIN Rail modules, sub-distribution panels and many more.

Eaton also offers Power Factor Connection modules, fully type tested according to IEC 61439 and IEC 61921. Our PFCs modules are up to 250 kVAr per panel in different IP ratings, using forced ventilation with capacitors, reactors, and controllers all from Eaton to meet our customer needs on complete offer.





Ultimate Safety Solutions

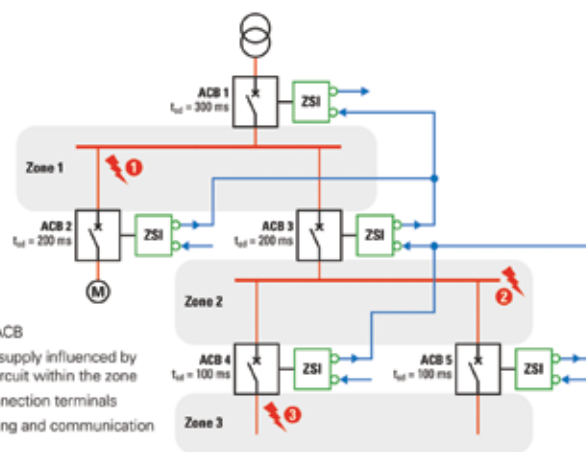
More security to your switchboard and personnel

A continuous supply of electrical power is essential for power-critical commercial and industrial buildings such as process plants, offices, hospitals, and factories. The provision of reliable power in such facilities rely upon the low-voltage distribution switchboards that lie at the heart of the electrical installation. Demands placed upon these switchboards, particularly as operations and infrastructures expand over time, leave them vulnerable to arc flashes.

Whether it is meeting the latest requirements of IEC 61439 for low voltage switchgear, personal safety under arc fault conditions according to IEC/TR 61641 and IEC 63107, addressing safety concerns while working near equipment, you can rely on Eaton's 100-year heritage and leadership in switchgear design.

Zone Selective Interlocking (ZSI)

With the ZSI technology, the unnecessary shut down of the whole assembly is prevented in the case of a short circuit. ZSI controls the circuit breakers to provide selectivity with very short interruption times for the breaker closest to the fault. With ZSI integrated into your assembly, additional communication between the ACB trip units is established. In the case of a short circuit, this enables breakers to trip faster than the trip unit settings, dramatically reducing the incident energy levels.



Arcflash Reduction Maintenance System™

Exposure to electrical arcs pose a high risk for the personnel working on or near energized electrical equipment. An Eaton air circuit breaker equipped with Arcflash Reduction Maintenance System™, ARMS, can improve safety by providing a reliable and straightforward method to reduce fault clearing time. Our circuit breakers are equipped with a comprehensive and innovative electronic trip unit PXR range.



Earthquake protection

When developing its switchgear systems, Eaton places particular emphasis on testing electrical functionality. To prevent the circuit from being interrupted, contacts must not be “disconnected” during seismic activities. The xEnergy Main has a robust construction that has undergone extensive seismic testing to meet the most rigorous standards for hazardous areas. It is designed so that it can be used in earthquake hazard areas with tests up to criteria AG5 according to different standards such as IEEE std. 344 and 693 or IEC 60068-3-3.

Diagnose System

Temperature monitoring brings enhanced security to your switchboard

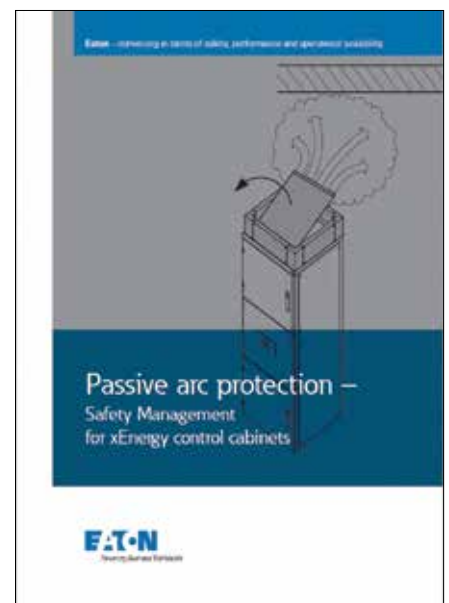
Elevated temperatures in the switchboard can cause insulation breakdown and possible arc faults, leading to catastrophic failure of the switchgear and possible injury to personnel. Eaton’s System enables constant temperature monitoring of the system. The switchgear can detect emerging problems as they occur and can quickly eliminate them before they result in a dangerous incident. Preventive maintenance is always better and ultimately cheaper than maintenance after a potentially serious incident.

Another advantage of Eaton’s System is that sensors can be installed in areas of the switchgear, which are difficult to access. As covers do not need to be removed for thermal scanning, the system can be continuously monitored under live conditions, providing excellent personnel safety and increasing the system’s availability.

Passive Arc Protection

The safety of operational or maintenance personnel is of paramount importance when considering a switchboard design. Internal arcing is deemed of significant concern. There is no mandatory standard for LV Switchgear or Motor Control that must be met. Producers adhere to the technical report IEC/TR 61641 (Enclosed low-voltage switchgear and control gear assemblies – Guide for testing under conditions of arcing due to internal fault) for guidance.

xEnergy Main panel construction provides a “passive” approach to personnel arc protection, complying with criteria 1 to 7. This ensures that gases and over-pressures generated during the arcing event are directed upwards and away from the front of the equipment, providing maximum protection for the operator. Special busbars separations, reinforced rings and roof, guarantee the highest safety to every person that works with xEnergy Main in their facility.



Active Arc Fault Protection

More security to your switchboard and personnel



ARCON® 3G Arc Fault Protection

Preventing Damage, Ensuring Service Continuity

Even switchboards that meet the requirements of the International Electrotechnical Commission's IEC 61439 standard remain vulnerable to arc flashes. Low voltage switchboards play a decisive role in supplying electrical power. However, even if the equipment is planned, built and tested to meet the standard, it is frequently modified. As the use of power within a commercial or industrial building changes over time, the risk of an arc flash can also increase. Human errors, such as personnel working on the switchgear, condensation, lack of maintenance or even small rodents and insects can trigger an arc flash.

The effects of an arc fault are very similar to those of an explosion. An arc flash can result in death or injury to persons, extensive damage to switchboard systems, to several weeks of downtime and even the replacement of the damaged switchboard system. Extensive downtime can result in customers seeking alternative suppliers.

In today's competitive environment, the availability of parts and replacement products are essential. With a total arc mitigation time of less than 2 ms, ARCON® offers an unprecedented level of personnel protection. Eaton's ARCON third generation is thoroughly tested and integrated into our xEnergy Main system according to the latest IEC TS 63107.

Using ARCON® restricts the effects of the arc fault on its footprint. After the cause of the fault has been rectified and the quenching device has been exchanged, the system can be made ready for operation in the shortest possible time to ensure the required ongoing operation.

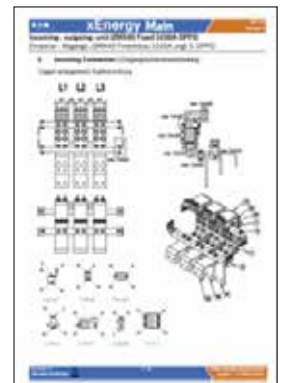


Easy to build

xEnergy Main's philosophy is to facilitate an easy assembly using different techniques that help our panel builder partners to execute their job more efficiently.

xEnergy Main offers all the parts in smart kits, along with everything needed for the assembly - delivered in space-efficient flat packs. This enables our partners to maintain a minimum inventory and to order the parts based on their needs. Furthermore, the system was developed to use the minimum quantity of tools possible by introducing harmonizing screws, which allows the utilization of standard Torx tools to execute the assembly.

Our build assembly and instruction leaflets provide all the necessary information regarding the correct execution of copper and metalwork. Additionally, we provide step by step instructions of all the steps to be followed so that our customers can execute the assembly in the minimum time possible. CNC copper codes are available for automation of the punching and bending process.



POWER *ADVANTAGE* Partner Program

A Partnership that Empowers You to Win

A Partnership that Empowers You to Win The Eaton Power Advantage Partner Program is designed to help you grow your business with Eaton's intelligent power management technology. It offers tangible benefits such as stronger margins, business development opportunities, marketing and sales support, and access to Eaton's service support.

As part of Eaton's Power Advantage Partner Program, partners have access to resources, tools, and support to help you build a sustainable panel builder business.



Digital solutions

The world is constantly changing and developing. To answer the rising technological demands, we strive to continually introduce innovations and advanced solutions. Therefore, we offer Configurator and Design software and an Augmented Reality application, which aim to enable our partners to maintain their effectiveness while keeping up with the latest technologies.

xEnergy Configurator Software

In order to make planning and configuring xEnergy as easy as possible, we offer our tried and tested xEnergy Configurator software at no additional charge.

- User-friendly xEnergy selection options;
- Windows-based wizards;
- Functional, self-explanatory construction;
- Short training period;
- Versatile applications;
- Project management and system structure;
- The system generates the correct distributor in relation to the guided system choice;
- All documentation in the software such as instruction leaflets, building assemblies and technical data sheets.



xSpider program system

The xSpider program system is a graphics-oriented drafting system for dimensioning low-voltage networks equipped with Eaton protection devices. The following are performed for star networks and node networks: Calculation of voltage losses, distribution of loads and short-circuit currents and subsequent suitability control of the cables and protection devices. Calculation processes are based on the IEC standard (EN). This is an autonomous program that only requires a Windows operating system. The program is mainly intended for projecting engineers and technical calculators.

xEnergy AR application

Add a 300 kg switchgear to your kitchen table, or play with xEnergy around your house. xEnergy keeps evolving, and with our AR App available on iOS and Android devices, our customers can access our database for technical and sales support. The app gives detailed information about the assemblies using real designed examples.



Complete Offer

A system is only as strong as its weakest link. We believe that the quality of the individual elements determines the performance and quality of the whole system. That is why xEnergy Main uses only the best components in the design of the structure and its functional units.

Understanding the interaction of each component and how they operate within a complete system is essential to delivering a fully type tested, reliable, and efficient power distribution and motor control application. Eaton delivers xEnergy Main with Eaton's air circuit breaker (ACB), moulded case circuit breaker (MCCB) and fused combination switch functionality. Ranging from the main incoming feeders to the push buttons and indication lights, all the critical components used in xEnergy Main are produced at Eaton.



Modular and Din rail circuit breakers and protection devices, global market leader with high flexibility and possibility for all types of applications.



Breakers with the ultimate digital technologies to extract the best in the market of circuit protection.



Eaton fuse and fuse-disconnectors technology, using Plug in PIFT and QSA. Available in different ranges, including UK fuse types.



PFC modules solutions, including reactor, capacitor and PFC controllers, in Flat Pack or preassemble modules.



Inverters, soft starters and electronic relays, all for MCCs applications. Different ranges tested and available according to customer requirements.



Motor protection circuit breakers and modular contactors, driving and protecting motors for decades.

Sub - Distribution

Sub Distribution switchboards for all types of applications. As part of the xEnergy family, Eaton offers our partners the sub-distribution systems xEnergy Basic and xEnergy light and also smaller distribution boards, where designers and panel builders can provide everything from the transformer to the outlet from one source.



Special Applications

Eaton offers power distribution products from medium voltage down to low voltage levels. The M2L electrical distribution system integrates these products into a complete factory-build solution, which combines the medium voltage connection and the low voltage distribution, including the transformer. A turnkey solution that offers significant benefits, in terms of investment and usage, for installers and end customers.

If you are looking for data centres applications, we offer solutions that connect the UPS and the switchgear. To shorten your time to market, we provide you with a solution that supplies complete pre-designed and integrated modules.

xEnergy systems match all data centres needs - using minimum space for connections between the switchgear and the UPS with type-tested bypass panels. Additionally, our painting systems provide the UPS and xEnergy with the same RAL colors, making your data centre modern and integrated.



Technical Data

System	xEnergy Main
Rated operational voltage	380 - 690 Vac
Rated frequency	50 / 60 Hz
Main busbar data	
Rated insulation voltage	1000 Vac
Rated impulse withstand voltage	up to 12 kV
Rated current	800 - 7100 A
Rated short-time withstand current	50 - 105 kA / 1 s and 50 - 66 kA / 3 s
Rated peak withstand current	231 kA
Vertical distribution busbar data	
Rated insulation voltage	1000 Vac
Rated impulse withstand voltage	up to 12 kV
Application	fixed / removable / withdrawable
Rated current	800 - 2000 A
Rated short-time withstand current	35 - 80 / kA 1 s
Rated peak withstand current	176 kA
Enclosure data	
Degree of protection	IP31 / IP42 / IP43 / IP55
Form of separation	form 2b / form 3b / form 4a & 4b form 4a type 2 / form 4b type 6 & 7
Entry of cables	Top and / or bottom
Access	Front or rear
Standard colour	RAL 7035



