Eaton – convincing in terms of safety, performance and operational availability.

xEnergy -
Product Information
Type-tested switchboard systems

EATON
Powering Business Worldwide

dynelec
DELIVERING RELIABILITY

xEnergy: Make way for progress by integrating innovation

Of course, we all like the idea of progress, but often what we really need are tangible, practical solutions – innovations we can implement and use right now.

And that is precisely why Eaton has developed xEnergy. This switchboard system has been designed so that Dynelec can configure your projects efficiently to meet your own specific requirements – from planning and assembly to installation. It provides the ideal basis for building infrastructures up to 6300 A.

xEnergy cleverly combines switching and protective devices, mounting systems and enclosure components, so that you can work quickly and efficiently in your workshop and easily integrate future innovations as they arise.

Ideal modules, intelligent system platform

Is it possible to bridge the divide between increasingly stringent technological and safety requirements on the one hand, and cost reduction on the other?

Eaton's answer to this question is a resounding 'Yes' – and it has developed the latest generation of switchboard systems to prove its point.

Eaton's xEnergy system range thinks ahead by allowing for tomorrow's requirements today. The xEnergy's switching and protective devices, mounting and switchboard systems together form a single technical and cost-effective economic unit that offers you the best in power management, switching and control.

How does it work? Quite simply: the system's modular design allows for a wide range of intelligent combinations. That means you save time, money and space. And because you can also rely on Eaton's excellent reputation for safety, you can implement individual projects in industrial and mining applications simply, quickly and flexibly.

System features and benefits

Functionality is a fundamental, individuality is the future
The xEnergy switchboard system consists of IEC/EN 60439/61439 type-tested function modules which provide compliance with AS3439.1. These have an internal separation up to Form 4, and comply with various national or regional installation requirements, such as DIN VDE, CEI, NF or UNE. This means you can design customised solutions for use in several different countries.

The xEnergy system offers you a wide range of options for implementing power distribution reliably, economically and fully in accordance with your requirements. You can use feeder and coupling sections for circuit-breakers up to 6300 A, and individually equipped outgoer sections with fixed and removable compartment modules for switching and protective devices up to 630 A.

Outgoer sections up to 630 A for switch-fuse strips, fuse rails and fuse switch-disconnectors are also available.

Control sections and empty sections can be combined as required for installing ancillary components such as motor starters,PFC modules, frequency inverters, soft starters or for automation solutions. The mounting systems for rail-mounted service installation devices can be used in conventional service distribution boards.

Licensed Assemblers
Eaton fully trained Licensed Assemblers offer you locally customised solutions fully compliant with Australian standards backed by Eaton's engineering and design expertise.

IZM/Magnum circuit-breakers for xEnergy power sections
- Type-tested switchgear assemblies (TTA) up to 6300 A
- Clear and symmetrical design with only one circuit-breaker per section reduces the number of busbar connections and saves mounting requirements
- Internal separation up to Form 4 increases personnel and system protection
- Fast and direct allocation of circuit-breaker mounting kits for the mechanical fastening of circuit-breakers
- High level of flexibility in the terminal area thanks to alternative connection options

NZM and PKZ circuit-breakers for xEnergy outgoer sections
- 3-pole and 4-pole switching and protective devices, type-tested switchboard systems (TTA) up to 630 A
- Max. 38 fixed compartment modules in one section (H 50 mm), optimum device utilisation despite high packing density
- Flexible module mounting to Form 4 with different device mounting depths, however with standard operating front
- Simple module mounting to Form 2 on one mounting depth
- Highly flexible combination possible for functional areas and busbars in accordance with IEC/EN 60439/61439 and national installation practice

xEnergy product features

XP Power Sections

- Incoming supplies, outgoers and couplings with circuit breakers
- Internal separation up to form 4
- Cable connection from the top or bottom
- Incoming supply system for drill-free cable connection

XF Fixed

- Power outgoers with circuit breakers and fuse switch disconnectors up to 630 A
- Internal separation up to form 4
- Individual outgoers, such as controlgear, motor starters, small power outgoers etc.

XR Removable

- Power outgoers with circuit breakers and strip type switch-disconnector-fuse, up to 630 A
- Empty modules for individual applications
- Plug-in modules and strip type switch-disconnector-fuse can be replaced under live-line working conditions
- Internal separation up to form 4
- Easy maintenance and reduced down times

XG General

- Power factor corrections
- Fitting systems for sub-distribution with devices for modular installation
- Control technology with SASY 60i and xStart
- Individual fixed units on a mounting plate

XW Withdrawable

- Power outgoers with circuit breakers up to 630 A
- Outgoers for motor starters up to 250 KW
- Empty drawers for individual applications
- Easy and uniform handling for all drawer sizes
- Drawers can be replaced under live-line working conditions
- Internal separation up to form 4
- Unambiguous position indicator for operating, test or de-energised status
- Easy maintenance without the need of using any special tools for replacement jobs
- Minimum down times

Dynelec - xEnergy Licenced Partners

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A **Jones & Rickard Group** Company

Introduction

Dynelec has been solving electrical engineering challenges in the Industrial & Mining environment since 1949. The business was founded by Leo Peckman, later joining with the 90 year old Australian family business Jones & Rickard. Today, as a key member of the Jones & Rickard Group, Dynelec has workshops in Unanderra and Western Sydney delivering value to clients by offering the complete electrical service from Engineering and Audit, through Manufacturing, Assembly & Testing, to Field Installation, Commissioning and Life Cycle Support.

Dynelec is a member of Standards Australia and has representation on the Standards Australia committees SA EL23 / EL14 and P12. The company is certified to AS/NZ 9001 & AS/NZ 3800 (MP87.2), and accredited by NATA as a Type C inspection body, meeting the requirements for Explosion Protected Equipment.

Our Solutions

Our record in the design, manufacture and installation of electrical Distribution Boards, Motor Control Centres (MCC), Protection and Control Panels, and Switchrooms is comprehensive, and expert in Industrial, Mining & Utility applications. With the integrated capability, "Engineering – Factory – Field", the number of project interfaces are reduced ensuring innovative designs, cost effectiveness, quality and on-time delivery.

Dynelec, as an Eaton xEnergy Licensed Partner, brings together the compliant simplicity of a world class switchboard system, designed and built for your specific application by our local team of experts.

POWERED WITH
EATON TECHNOLOGY™ xEnergy

Under license of Eaton

Eaton's Electrical Sector is a global leader in power distribution, power quality, control and automation, and monitoring products. When combined with Eaton's fullscale engineering services, these products provide customer-driven PowerChain ManagementT solutions to serve the power system needs of the data center, industrial, institutional, public sector, utility, commercial, residential, IT, mission critical, alternative energy and OEM markets worldwide.

PowerChain Management solutions help enterprises achieve sustainable and competitive advantages through proactive management of the power system as a strategic, integrated asset throughout its life cycle, resulting in enhanced safety, greater reliability and energy efficiency. For more information, visit www.eaton.com/electrical.

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