

Low Voltage Power Distribution and Motor Control Center

Power Xpert® DX

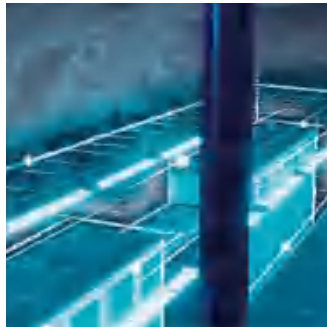
Low Voltage Power Distribution
and Motor Control Center



Powering Business Worldwide

We provide customized and segment-based solutions to solve your toughest power management challenges

DATA CENTERS



RENEWABLES



UTILITIES

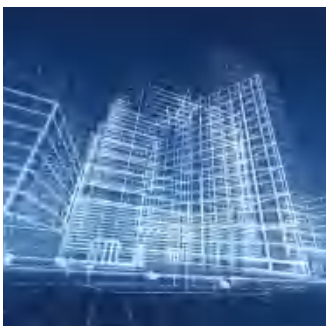


INFRASTRUCTURE

INDUSTRIAL



COMMERCIAL
BUILDING



- Compatible solutions to help your data centers be high-performing, sustainable and energy-effective without compromising resilience or security;
- Integrated solutions to deliver the electrical power you need from renewables including solar, wind and hybrid;
- Engineered solutions to improve the reliability of the smart grids while working in an uninterrupted mode;
- Cost-effective full-life-cycle services and engineering expertise to ensure power supply is uninterrupted, clean and reliable;
- Commissioning services and preventive maintenance to lower the operational costs and safeguard employees' safety;
- Professional assistance to support original equipment manufacturers in your mechanical and production management.



Switchgear Technology is in our DNA

Eaton's knowledge and understanding of industries, applications, technology, and products enables us to offer customers safe, reliable, and high performance solutions.

We have always been part of the creation of new Low and Medium Voltage Switchgear technology, and that experience is in each and every one of us.

Eaton's Low Voltage Systems can meet the needs of any installation

Eaton Low Voltage Systems are designed to be as space and energy efficient as possible while maintaining easy access for installation, operation and maintenance. Low Voltage Systems from Eaton are highly standardized systems supported by quick configurations, quoting facilities, and fast deliveries.

Eaton's comprehensive low voltage system product portfolio has been specifically designed to meet the needs of all types of installations. The extensive portfolio includes: Power Supply and Control Assemblies, Package Substations, Main and Sub-Main Switchboards, Busbar Trunking, Motor Control Centres, Power Factor Correction, and Engineered Assemblies.

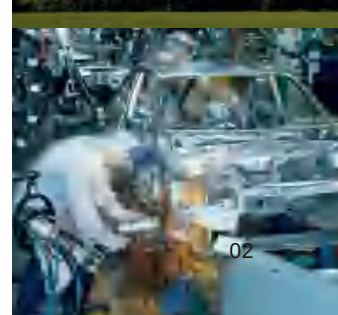
As might be expected from such a comprehensive portfolio, Eaton's low voltage power distribution and control systems have been used in applications, such as: Water industries, Pharmaceutical industries, Industrial facilities, Food & Beverage, Infrastructure projects, Mining & Steel industry and

Commercial applications such as: Shops, Schools, Hospitals, Warehouses, Hotels, Prisons, Data centers, and Sport stadiums.

Reliable, safe and standardized design

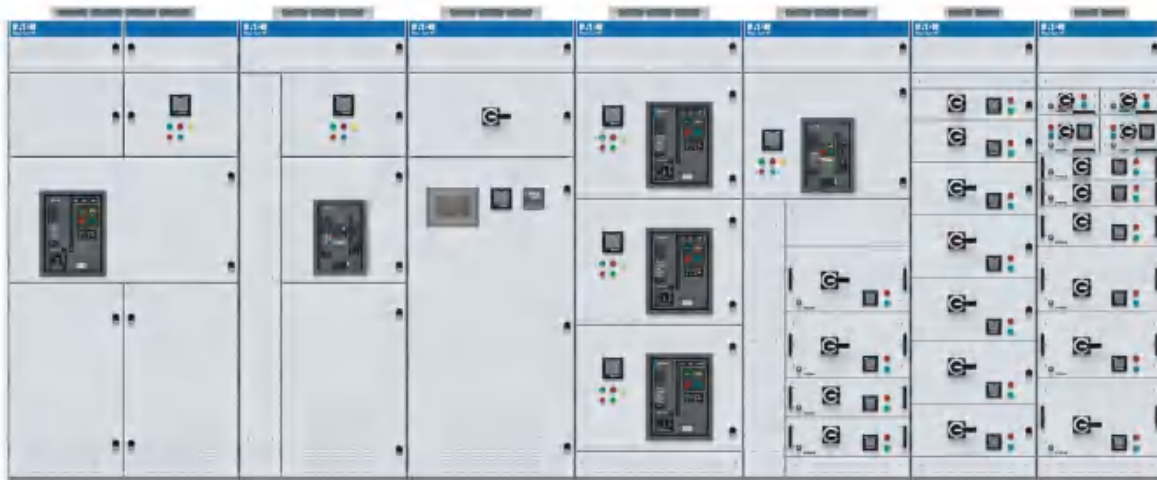
Eaton's range of low voltage systems not only provides you with optimum power distribution and motor control functionalities, they meet your most demanding requirements for safety and flexibility. When it comes to safety, Eaton's low voltage systems offer the highest level of protection.

It is Eaton's policy that all products are subjected to rigorous testing and verification programs by, or under the supervision of, internationally recognized and respected third party organizations including: KEMA, TUV, CQC, Intertek and UL (Underwriters Laboratories). In addition to third party performance and quality verification many Eaton low voltage systems hold specialist approvals from: CQC, UL and KEMA.



Power Xpert® DX Low Voltage Power Distribution and Motor Control Center

The Power Xpert® DX is a low-voltage switchgear that meets the latest IEC/GB standard manufactured by Eaton's original factory. The system provides reliable motor control and power distribution functionality, and widely used in all industrial and commercial applications



Safe in Operation

- The rated current of the main busbar is up to 6300A, I_{cw} = 100kA/1s;
- Patented interlock mechanism of withdrawable unit for operation with a clear connection/testing/disconnection positions. IP2X is guaranteed even if the drawer is on test position;
- Arc flash reduction maintenance system function can be installed to provide a higher level of safety for operator and power system;
- Full internal separation of all functional units designed in accordance with Form 3b/4b;
- The internal ARC protection is up to 100kA/0.5s, DX has the more advanced Arc ignition protected zone/Arc tested zone design, and tested according to IEC/TR 61641 criteria 1~7 to avoid the occurrence of arcing failures.



Reliable in Operation

- Complete product design to comply with GB/T 7251 and IEC 61439;
- Third party tested and certified (Verification and validation by testing);
- Quality assurance in accordance with ISO 9000, 14000;
- The system uses a full range of high quality Eaton core components to ensure reliable operation;
- The seismic protection meets the requirements of AG2/AG5 to comply with IEC 60068-3-3;
- The external degree of protection is IP42/54;
- Full insulation/full isolation of the distribution busbar is optional, maintenance-free design;
- Silver-plated scissor contacts ensure that there is no welding to the vertical bus in the event of high starting or short circuit currents.



System Flexibility

- Modular design, easy assembly, cost saving;
- Small footprint with fixed /withdrawable type units;
- Stack-ACBs allowing compact footprint and cost reduction.
- Up to 28 feeders (63 A frame MCCB or FCS) or 28 motor starters (18.5 kW DOL) can be installed in one single section to reduce footprint and achieve maximum density;
- Modular distribution busbars design with fully segregated as optional;
- Flexible exchangeability;
- Variable widths for cable ways;
- Easy to upgrade and extend the panels;
- Flexible incoming/outgoing method
- Front/Rear access, and against the wall installation.

Basic Desgin

The construction of the Power Xpert® DX is modular in nature. It is built custom to application parameters and has a broad feature-set that can be tailored to meet your reliability and safety requirements.

The busbar compartment

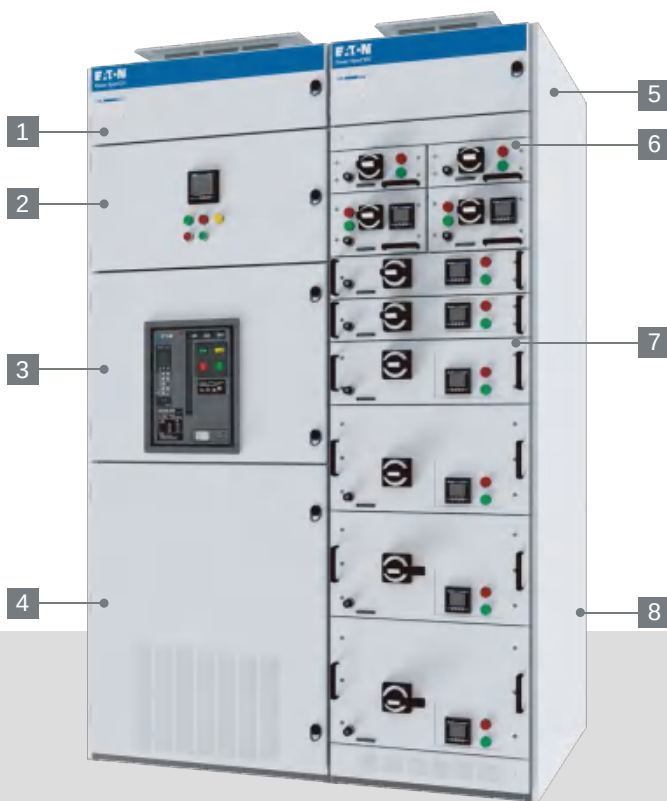
Located at the top of the structure where the horizontal and vertical busbars are found.

The cabling section

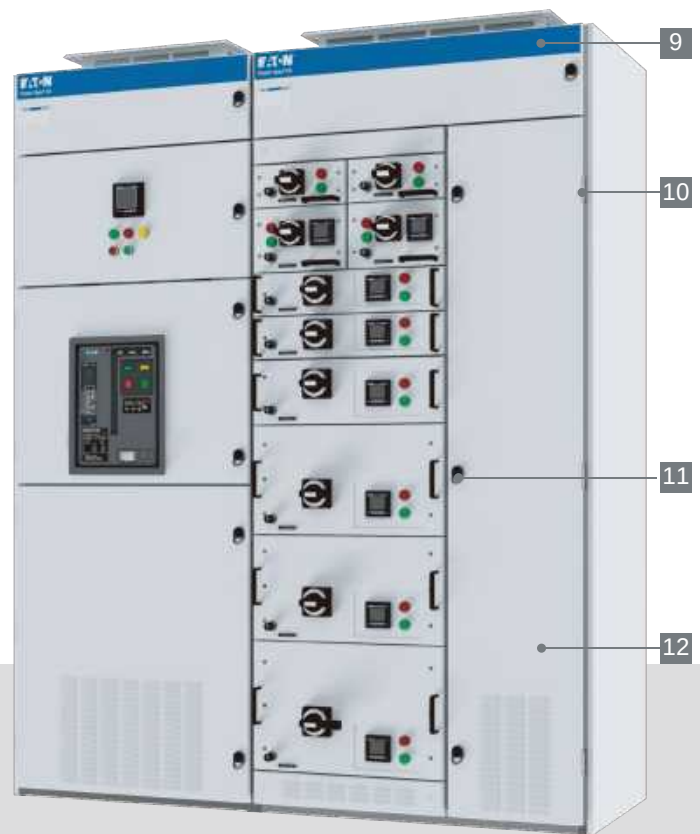
Located in a separate fully segregated cable chamber housing both control and power cable terminations.

The equipment section

At the front where the functional units are fitted. The standard design is top mounting busbar, the system can be arranged for Front/Rear access, and also satisfy the installation to against wall. Cable can be connected from top/bottom. Arrangements for 'back to back' configurations are possible.



Rear access



Front access

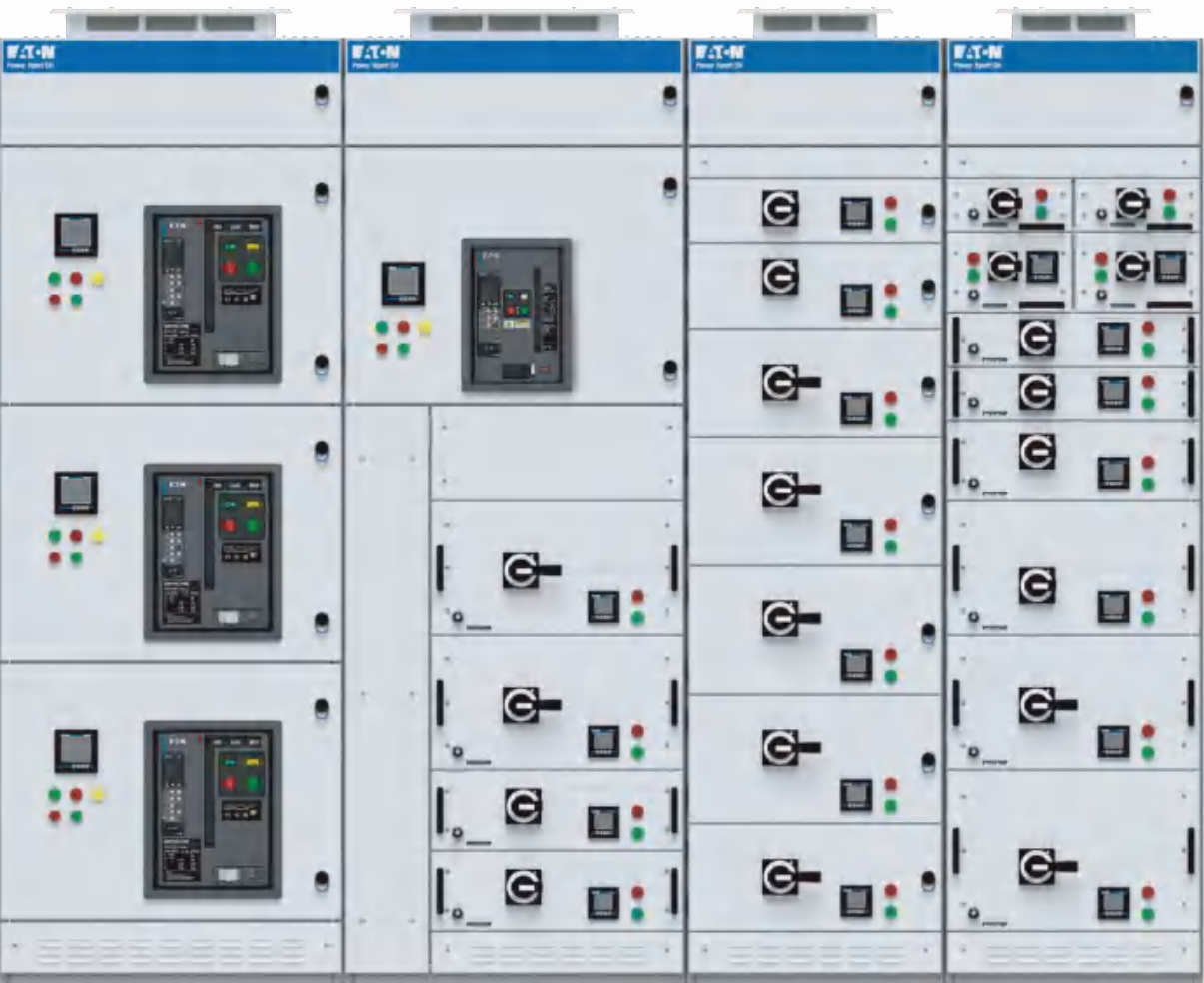
Power Xpert® DX Motor Control and Power Distribution Center

- | | | | |
|-----------------------------|----------------------------|----------------------------------|------------------------------------|
| 1. Communication cable duct | 4. Cable compartment | 7. Drawer unit | 10. Hinge |
| 2. Meter compartment | 5. Main busbar compartment | 8. Rear access cable compartment | 11. Lock |
| 3. Incomer/Feeder unit | 6. Half-size drawer unit | 9. Head strip | 12. Front access cable compartment |

Panel Type



Functional type		XP ACB Incomer/Feeder	XB ACB Bus-coupler	XG Capacitor Bank
Rating current/ capacity		up to 6300A	up to 6300A	up to 400kvar
Access type		Front/Rear access	Front/Rear access	Front/Rear access
Unit section		Drawer/Plugin/Fixed	Drawer/Plugin/Fixed	Capacitor/SVG/APF
Cable connection		Top/Bottom/Side cable entry	-	-
Dimension (mm)	Width	425/500/600/800/1000/1100/1200/1350	600/800/1000/1200/1500/1750	600/800/1000/1200
	Height	2200/2350	2200/2350	2200/2350
	Depth	600/1000/1200/1400	600/1000/1200/1400	600/1000/1200/1400

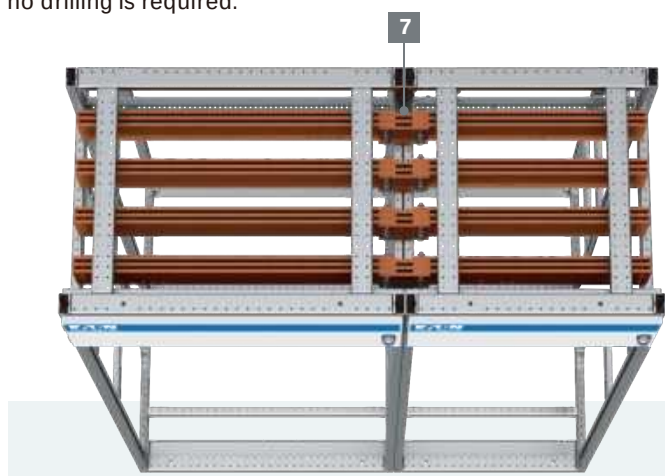


XS Stack ACB	XP+XW/XF Mixed	XF outgoing	XW outgoing
up to 4000A	up to 3200A+1200A DBB	up to 2500A DBB	up to 2000A DBB
Front/Rear access	Front/Rear access	Front/Rear access	Front/Rear access
Drawer/Plugin/Fixed	Drawer/Plugin/Fixed	Plugin/Fixed	Drawer/Fixed
Top/Bottom/Side cable entry	Top/Bottom icable connection	Top/Bottom cable entry	Top/Bottom cable entry
600/800/1000/1200/1400	800/1000/1200/1400	600/800/1000/1200	600/800/1000/1200
2200/2350	2200/2350	2200/2350	2200/2350
600/1000/1200/1400	600/1000/1200/1400	600/1000/1200/1400	600/1000/1200/1400

Main Busbar System

Power Xpert® DX main busbars are arranged in a separate compartment to ensure the required form of separation and internal degree of protection.

The main busbar system is fully separated from function unit and cable compartment. The busbars are rated up to 6300A 100 kA/1S. The busbar has two options: air insulation or composite insulation (Arc ignition protected zone as option). On-site extension of the main busbar system can be easily and quickly accomplished with the appropriate busbar coupling; no drilling is required.



Main busbar coupling area



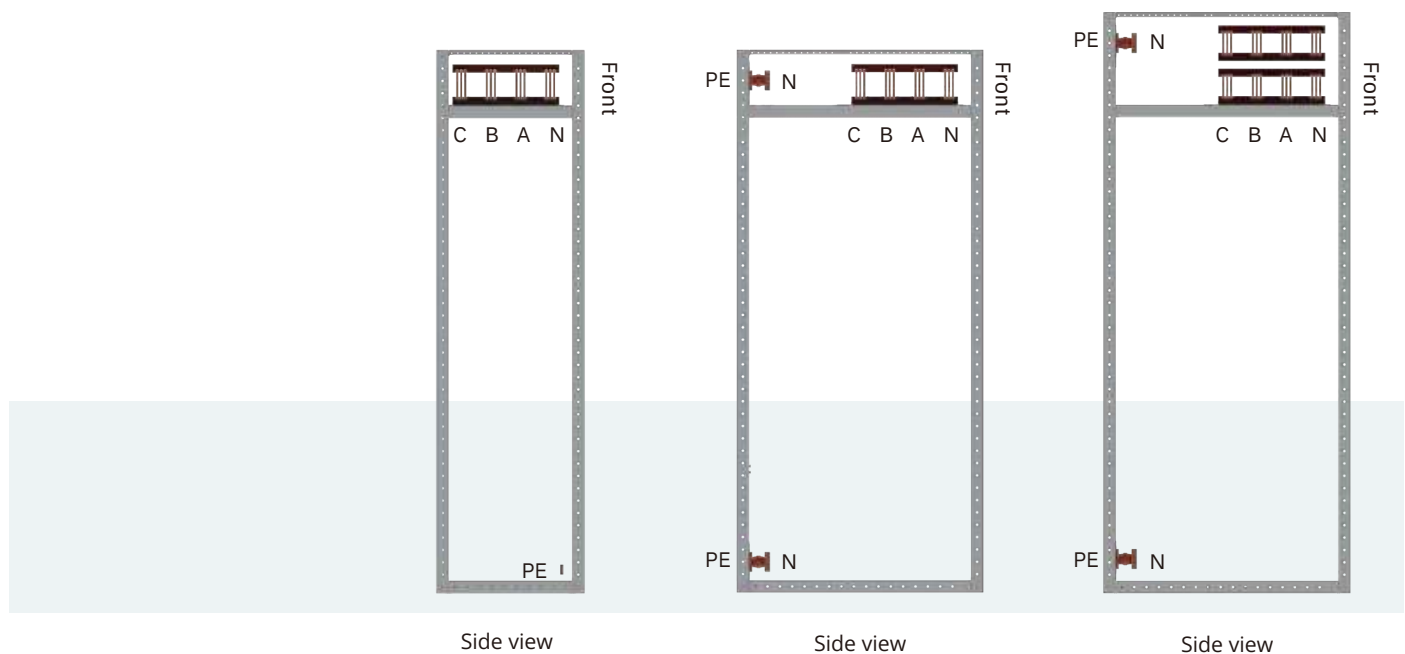
Busbar system

- | | | | |
|----------------------|----------------------------|--------------------------------|--------------------|
| 1. Main busbar | 3. Cable connection busbar | 5. Distribution busbar | 7. Coupling busbar |
| 2. ACB branch busbar | 4. Main PE | 6. Withdrawable panel branch N | |

Main busbar parameters

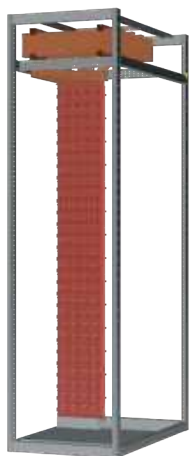
Material	Insulation type	Position	Main busbar current	Short circuit I _{cw} - 1s	I _{pk}
Copper T2	Air Insulation or Composite Insulation	Top	630A	50 kA	105 kA
Copper T2	Air Insulation or Composite Insulation	Top	800A	50 kA	105kA
Copper T2	Air Insulation or Composite Insulation	Top	1000A	50 kA	105 kA
Copper T2	Air Insulation or Composite Insulation	Top	1250A	65 kA	143 kA
Copper T2	Air Insulation or Composite Insulation	Top	1600A	65 kA	143 kA
Copper T2	Air Insulation or Composite Insulation	Top	2000A	80 kA	176 kA
Copper T2	Air Insulation or Composite Insulation	Top	2500A	80 kA	176 kA
Copper T2	Air Insulation or Composite Insulation	Top	3200A	80 kA	176 kA
Copper T2	Air Insulation or Composite Insulation	Top	3600A	80 kA	176 kA
Copper T2	Air Insulation or Composite Insulation	Top	4000A	100 kA	220 kA
Copper T2	Air Insulation or Composite Insulation	Top	5000A	100 kA	220 kA
Copper T2	Air Insulation or Composite Insulation	Top	6300A	100 kA	220 kA

Main Busbar System



Main busbar position

Main busbar position	Top	Top	Top
Access type	Front access	Front/Rear access	Front/Rear access
Neutral	Top	Top/Bottom	Top/Bottom
PE	Bottom	Top/Bottom	Top/Bottom
Rating current	Up to 3200A	Up to 5000A	6300A
Dimension (mm)			
Height	2200	2200	2350
Depth	600	1000/1200/1400	1000/1200/1400
Cable connection	Bottom cable entry	Bottom/Top/Side cable entry	Bottom/Top/Side cable entry



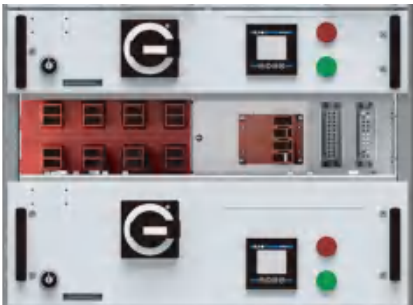
Fully segregated/full insulation VBB

Distribution Busbar System

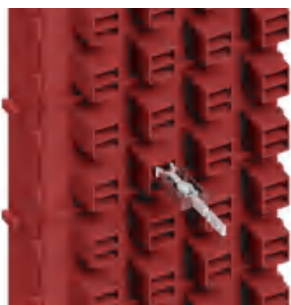
Fully segregated/ full insulation busbar structure with Nylon or SMC materials. Maintenance free with scissor contacts technology. Up to 2000A rating current. Icw up to 100kA/s. The maximum installation density is 28 half-size drawer units. Arc ignition protected zone as option.

Distribution busbar Rating current	short-time withstand current Icw - 1s	Peak withstand current Ipk
630 A	Up to 50 kA/s	105 kA
800 A	Up to 65 kA/s	143 kA
1000 A	Up to 80 kA/s	176 kA
1200 A	Up to 80 kA/s	176 kA
1600 A	Up to 80 kA/s	176 kA
2000 A	Up to 100 kA/s	220 kA

Motor Control and Power Distribution drawer unit



IP2X with draw out



Silver-plated scissor contacts

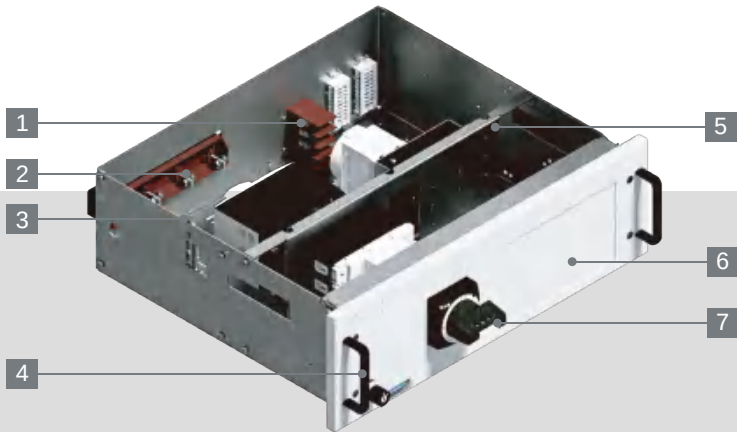
Eaton's patented silver-plated scissor contacts, used for the connection of the outgoing units to the vertical busbar, eliminate contact wear on the bus itself. A special contact design ensures that there is no welding to the vertical bus in the event of high starting or short circuit currents. It also passed 1000 times mechanism endurance test, and the IP integrity IP2X is not compromised when the unit is in each position. The initiative test position is convenient for operation.

Drawer units satisfy DOL/FR/SD/Soft starter/VFD, the maximum installation is 28 half size drawer units. The internal separation is Form3b/4b.

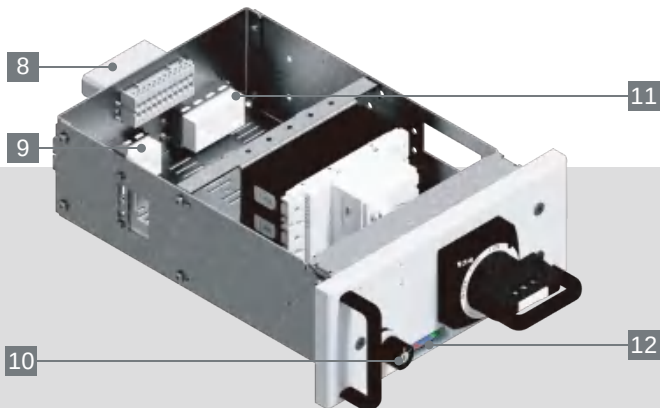


Up to 28 half size drawer units

Unit Height	Unit Width	Motor starter	Feeder
125 mm -1/2	15 kW	15 kW	63 A
125 mm	22 kW	22 kW	125 A
187.5 mm-1/2	15 kW	15 kW	80 A
187.5 mm	45 kW	45 kW	160 A
250 mm	75 kW	75 kW	250 A
312.5 mm	75 kW	75 kW	400 A
375 mm	110 kW	110 kW	630 A
437.5 mm	132 kW	132 kW	630 A



Standard drawer unit
Up to 132kW for motor



Half drawer unit
Up to 15kW for motor

1. Load contacts

2. Line contacts

3. Anti-drop device

4. Drawer handle
5. Main components installation area

6. Auxiliary components installation area

7. Circuit breaker handle

8. Auxiliary contacts
9. Line contacts of half size drawer

10. Interlock button

11. Load contacts of half size drawer

12. Position indicator

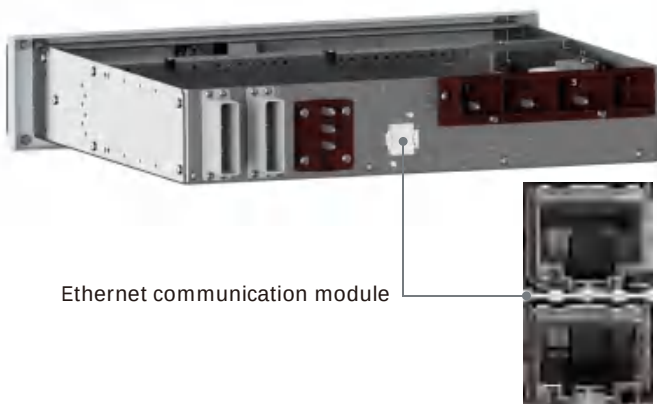
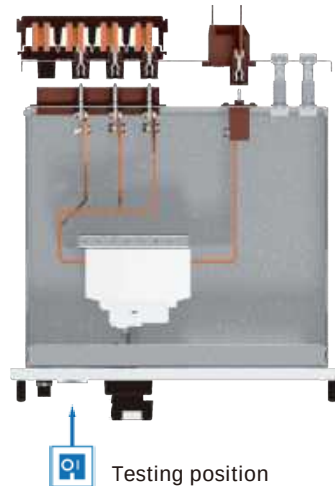
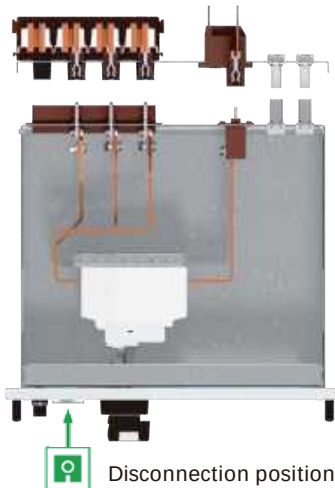
Drawer Unit

Mechanism Interlock

Power Xpert® DX drawer adopts mechanical position mechanism with special key. Ergonomically design of the switchboard provides easy and clear understanding of functionality. Withdrawable units can be quickly and easily exchanged without having to disconnect any power or control cabling.



	Disconnection	Testing	Connection
Line/Load contacts	Disconnected	Disconnected	Connected
Auxiliary contacts	Disconnected	Connected	Connected
Operation steps	1."0"position, insert the key	3.Turn the key to "I" position	5.Turn the key to "0" position
Disconnection to connection	2.Push drawer to testing position	4.Push drawer to connection position	6.Pull out the key
Operation steps	4.Turn the key to "0" position		1.Insert the key
Connection to disconnection	5.Pull out the key		2.Turn the key to "I" position 3.Pull out drawer to disconnection position



Integrated Ethernet Communication interface

Power Xpert® DX drawer unit equipped with Ethernet RJ45 communication interface, stable transmission, high speed, strong compatibility, support long distance communication with standardized wiring to various industrial and civilian scenarios.

- unlock position slide during drawer to connected position, to achieve automatically switching between test and ON position
- Redundant RJ45 communication interface
- Industrial communication, RJ45 Cat6A Connectors, Transmission rate up to 1G bits/s
- Communication protocol: Modbus TCP, EtherNet IP, Profinet

ACB Function Unit

- Complete solutions: incomer, feeder and buscoupler;
- Integrated Eaton IZM series circuit breaker;
- The min. width of panel is 425mm(IZM91-3P), 600mm (IZM97-3P), 1100mm(IZM99-3P);
- The current rating of double ACBs panel is up to 2000A (IZM97) /1600A(IZM91) . The current rating of 3 ACBs solution is up to1250A (IZM91/IZM97);
- Flexible cable connection solution, top/bottom cable entry.



ACBsection		1xACB	2xACBs	3xACBs
ACB type	Rating current			
IZM91	Up to1600A	√	√	√
IZM97	Up to4000A	√	√	√
IZM99	Up to6300A	√		
Dimension				
Height		2200/2350	2200/2350	2200/2350
Width		425/600/800/1000/1100/1350	600/800/1000/1200/1400	600/800/1000/1200/1400
Depth		600/1000/1200/1400	600/1000/1200/1400	600/1000/1200/1400

Degree of Protection

Power Xpert® DX has a degree of protection IP42/IP54 as standard.

The different parts / compartments comply with the following degrees of protection:

- Between main busbar compartment and any other compartments: IP2X.
- Between switchgear and controlgear compartments and cable-entry compartment:IP2X.
- Between mutual compartments of each functional unit within a cubicle: IP2X.
- Within opened compartments: IP2X.
- Within switchgear with removed drawout units: IP2X.

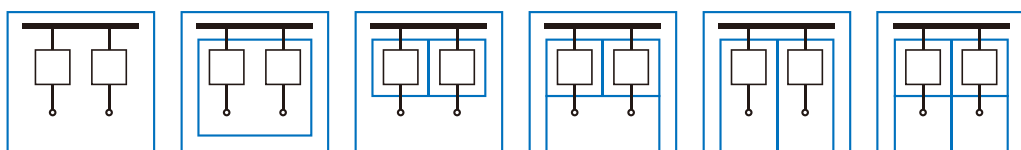


Form of Internal Separation

GB/T 7251.1/2 & IEC61439-1/2 defines the various forms of internal separation. The form of internal separation determines how busbars, functional units and terminals are separated from each other. Power Xpert® DX is designed to provide separation in both Form 3b and 4b solutions.

Form 3b solution is defined as: the separation of terminals for external conductors from the functional units, but not from those of other functional units, a common cable chamber where all outgoing terminals are grouped together.

Form 4b solution is defined as: the separation of the terminals for external conductors associated with a functional unit from those of any other functional unit and the busbar, individual separation of each functional units outgoing terminals from each other.



	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		✓		✓	✓	✓
Power Xpert® DX supported forms of separation		✓	✓	✓	✓	✓

Cable connection

Main incoming power connections can accommodate cables and or busbar trunking systems. These can be connected from the top, bottom and side. Front or rear access can be available for this system.

The withdrawable panel can also meet front access (600mm deep) and rear access (≥1000mm deep) requirement. The standard cable compartment is 400 mm deep (whether front access or rear access), it can meet cable installation requirement for high density drawer installation configuration. According to the requirement from customer, Power Xpert® DX can customize the connection terminals to be convenient for cable installation.



ACB Cable connection



Form3b cable connection without separation



Form4b cable connection with separation

Internal ARC protection Design

Rating voltage	Ue	415/690V	415/690V
Arc degree		Class C	Class I
Rating insulated voltaghe	Ui	1000V	1000V
Rated frequency		50/60Hz	50/60Hz
Maximum allowable effective value of fault arc current	Ip	100kA	N/A
Duration of arc ignition	t	500ms	N/A
Pollution degree		3	3
Degree of protection		IP42	IP42
Internal form of separation		Form 4b	Form 4b

Tested in accordance with IEC61641, the internal Arc protection is up to 100KA/0.5s.

Quality assurance in accordance with DIN EN 9001/ ISO9001 with routine tests carried out in ISO 9001 certified Eaton manufacturing locations.

Compartments for draw-out units can be modified without process interruption.

Interlocked mechanism to ensure safe operating /disconnected /test positions.

Safety due to use of Eaton standardized components which have a proven track record.

Eaton Air Circuit Breakers equipped with Arcflash Reduction Maintenance System™ (ARMS)

An Eaton air circuit breaker equipped with ARMS can improve safety by providing a simple and reliable method to reduce fault clearing time. The ARMS is controlled by a lockable switch that can easily activate a separate analog circuit for faster tripping time at the work location and be incorporated into a Lock Out Tag Out (LOTO) procedure. Downstream of a circuit breaker equipped with an Arcflash Reduction Maintenance System can have a significantly

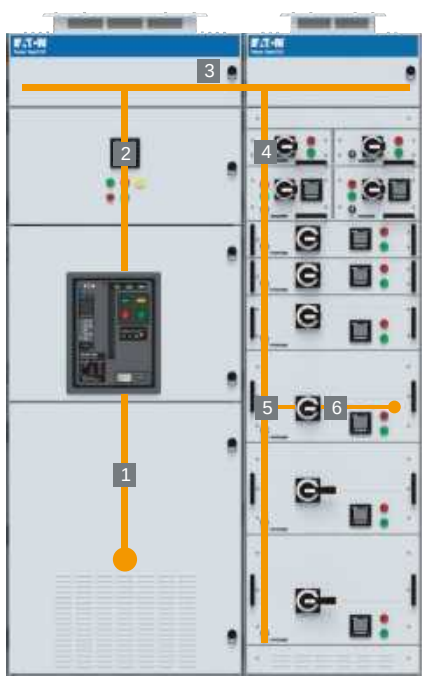
lower incident energy level, thus protecting operators or maintenance personnel who are working on a downstream energized piece of equipment.

Benefits of Arcflash Reduction Maintenance System™ are:

- Increased personnel safety by limiting the available arc flash energy.
- Simple to operate.
- Enabled with the circuit breaker door closed by a door mounted lockable switch or through communication to the breakers trip unit
- Enabled only for the time required to perform the work.
- Preserves over-current coordination under normal onditions.



Integrated ARMS electrical trip unit



Arc ignition protected zone & Arc tested zone*

Eaton's philosophy is that the best way to mitigate the risks of internal arcing is to prevent the arc from happening in the first place.

Arc ignition protected zone - part of a circuit within the assembly where it is not possible to apply an ignition wire without destroying the insulation material on conductors

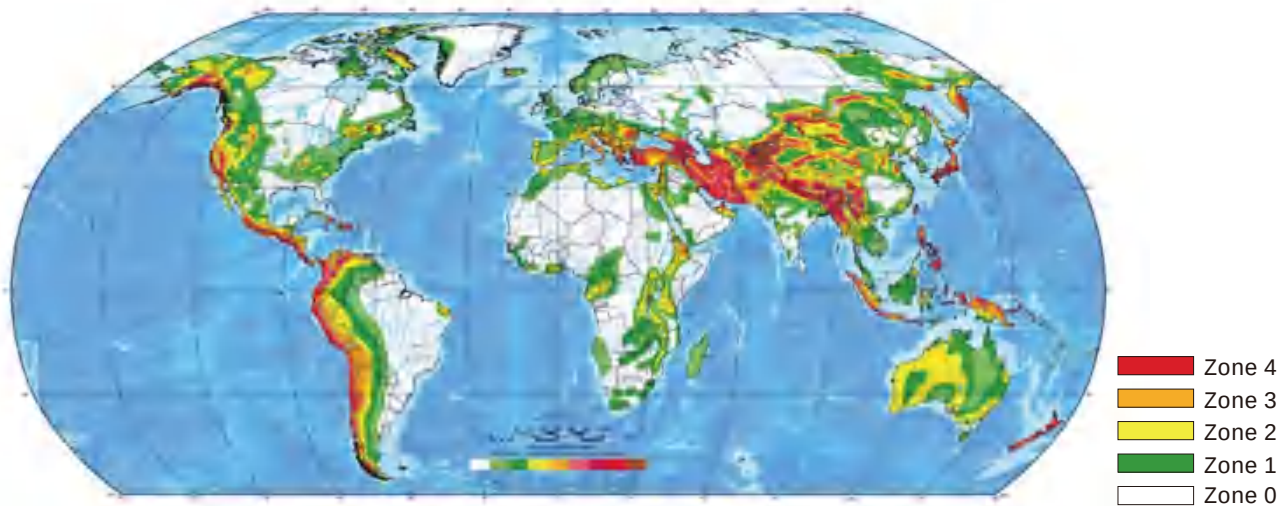
Arc tested zone - Part of a circuit where an ignition wire can be applied and fulfilling all relevant criteria for the assessment of the test

1. Arc Proof segregated cable connections - Option
2. Arc Free insulated busbar connections - Option
3. Arc Free insulated main busbars - Option
4. Arc Free insulated and segregated distribution busbars
5. Arc Free main contacts (line side)
6. Arc Proof functional units (load side) - Option

* Please Consultat to Eaton

Seismic solution

Seismic zones around the world



Power Xpert® DX is designed to meet seismic standard. Tested according to IEC 60068-3-3 and passed AG2 and AG5.

Different standard	Power Xpert® DX test result	
Seismic standard	Standard design	Enhanced design
IEC 60068-3-3	AG2	AG5
IEEE 344	0.25g	0.5g
IEEE 396	0.25g	0.5g
AC 156	0.25g	0.5g
Unified seismic zones in America	Zone 2B	Zone 4

Ground acceleration,Richter scale,UBC zone and seismic intensity comparison

Ground acceleratio	Seismic description		
	Richter scale	UBC zone	Seismic intensity
AG2	< 5.5	1 - 2	less than 8
AG3	5.5 - 7.0	3	8 to 9
AG5	> 7.0	4	9 or above

Electrical Components

Power Xpert® DX uses the best full range of Eaton components. A system is only as strong as its weakest link, so the quality of the individual components determines the performance and quality of the system as a whole.

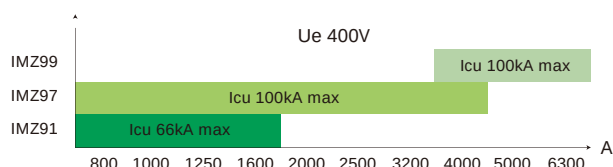
Eaton power control and protection components are among the best in the world. The Power Xpert® DX is designed with the option of Eaton air or molded case circuit breakers or a fused combination switch. Understanding the interaction of each individual component and how they operate within a complete system is essential to deliver a fully type-tested, reliable and efficient power distribution and motor control system. All the critical components used in the Power Xpert® DX are proven technology – from the main incoming feeders to the pushbuttons and indicator lights.



Air Circuit Breaker

IZM series Air Circuit Breaker

- Rated current up to 6300A-100kA
- Comprehensive and innovative electronic Digitrip™ trip unit range (LSIG)
- Fixed and Withdrawable type Complete range of auxiliaries
- Arcflash Reduction Maintenance System™



MCCB, MCP and DILM contactor

Molded Case Circuit Breaker NZM & PDC

- Only 4 frame sizes cover up to 1600 A - 150 kA
- Intelligent communication Modbus/USB read setting and remote control
- PXR series electronic trip unit - LSIG
- Arcflash Reduction Maintenance System™ makes your circuit breaker trip faster than instantaneous trip
- Integration of Power Xpert® Protection Manager

PKZ/PKE Motor Protection Circuit Breaker DILM Contactor

- Only 2 variants for PKZ to cover the entire range from 0.1 to 65 A.
- PKE enables a wide range of electronically-controlled settings
- No need for additional current limiters
- Complete motor starter series, including DOL, FR and DS types
- Motor starter with type 2 coordination, Combined with PKZ and NZM /PDC circuit breakers

Low Voltage Power Factor Compensation

Capacitive Reactance and Active Power Filter

- The capacitor is from 10~120kvar, the voltage is up to 900V, and the metalized polypropylene film is used as dielectric with low loss, long life, self-healing function, with over-pressure isolator, over-current protection, high safety, etc.
- The reactor voltage is up to 690V, the impedance rate is 6%/7%/12%/14%, the iron core copper or aluminum wire winding structure is used, and the vacuum casting polyester resin process is used to ensure that each reactor has a good Electrical and mechanical properties
- The power factor controller can effectively measure and monitor the reactive power in the power distribution system, and automatically control the switching of the multi-segment capacitor equipment according to the setting, which can realize the automatic control of the reactive power compensation device in the medium and low voltage power grid



Electrical Components



Soft starter and Variable Frequency

S811+ Soft starter

- Designed to control the acceleration and deceleration of three phase motors
- Intelligent pump algorithm to eliminate water hammer effect
- Compact footprint to replace wye-delta starters
- Comprehensive protections and diagnostic capabilities to ensure the highest reliability
- Rated up to 560 kW

PowerXL™ variable frequency drives

- DC1 compact drive for fans, pumps and conveyor systems (ratings from 0.37 to 11 kW)
- DG1 general purpose drive for commercial and industrial systems (ratings from 0.75 to 160 kW)
- DA1 advanced machinery drive (ratings from 0.75 to 250 kW)
- Compliant with IE2, IE3, and future IE4 energy efficiency

Motor Protection Relay

Motor Protection Relay

- 0.3-1500 A, up to 690 Vac (50/60 Hz)
- Selectable trip class, earth fault and phase imbalance protections
- Flexible communication options for both monitoring and control
- PROFIBUS, Modbus RTU,

C300 Motor Protection Relay

- AC 380V~1.2KV Integrated Control and Protection of Low Voltage Electric Motors
- high-performance 32-bit industrial microprocessors, with high integration, strong functionality, and fast speed
- Equipped with comprehensive protection functions, power on recovery self start function, multiple voltage reduction start controls, bidirectional and dual speed start controls
- Small size, low power consumption, suitable for direct installation on switchgear or centralized screen assembly
- Equipped with Modbus RTU communication, the back end monitoring system can complete telemetry, remote signaling, and remote control functions of the device through the communication network.

Multi-functional Meters

APM500, APM300, APM100 meters

- The compact meter combines single-phase or three-phase power monitoring and measurement with data recording, power quality analysis, temperature monitor (APM500), alarm and I/O functions
- Use Total Harmonic Distortion (THD) measurement technology to achieve real-time measurement and analysis of electrical parameters, and to monitor power quality
- Up to 4 different rates can be allocated for different time periods in a day according to billing requirements
- Modbus® RTU communication
- High resolution black backlit LCD or LED display

PXM4000/6000/8000 Power Quality and Energy Meters

- Automatic analysis and trigger settings of power quality, and provide ITIC performance curve: detect and capture dips, swells, transient pulses, harmonics and flicker
- Through the extremely high sampling rate, accurate detection of fast transient pulses, comprehensive power, energy and demand measurement up to millisecond time synchronization and event recording capabilities
- Support remote alarm notification via email (with waveform)
- Use industry standard communication protocol, support many configurations and third-party software
- Supported by Power Xpert® software and PowerXpert® Architecture



Intelligent low-voltage switchgear and its components

- Extremely simple digital experience - local real - time monitoring, setting, and configuration; interoperability and compatibility with the local edge control system (platform layer)- Intelligent gateway - for rapid data access and upload
- Optional thermal monitoring - to monitor the operational status of key points and keep abreast of health risks in real - time
- Smart interconnected QR code - for asset management and equipment information

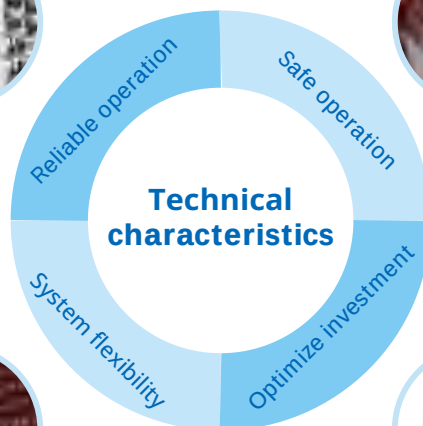
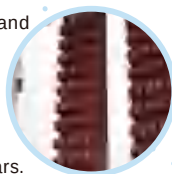
- Securely transmit to the deployed digital management platform or application.
- Obtain data through Eaton's artificial intelligence and machine - learning algorithms.
- Be compatible with other third - party equipment manufacturers.
- Integrate Eaton's interconnected intelligent digital devices.



- Comply with the latest standards GB/T 7251.1/2 ; IEC61439-1/2
- Factory original manufacturing, with ISO9000 and 14000 certifications.
- High-quality full range of Eaton components
- Full range of test reports - seismic, internal arcing, EMC, salt spray, high altitude



- The rated current is up to 6300A, and there is no derating for ACB at 3200 A and below.
- The drawer has a reliable independent mechanical interlocking function.
- Prevention of internal arcing, seismic resistance.
- Fully isolated power distribution busbars.



- Modular design makes the cabinet easy to expand and upgrade.
- Modular distribution busbars design, flexible exchangeability;
- Flexible omni-directional inlet and outlet wiring methods
- Multi-ACB scheme combination reduces floor space.



- Single-sided drawer cabinets achieve high-density installation and save space.
- Full enclosed/full insulated distribution busbar for option, allow for high-density drawer units.
- Adopt high-grade materials and components.



ETDSS System

ETDSS - Eaton Smart Power Distribution Automation System is a new - generation automated monitoring system based on IoT technology and capable of cross - platform operation. The system can provide users with comprehensive monitoring, management, and operation and maintenance functions for power distribution and consumption systems, helping users easily manage the safety of power distribution and consumption systems, improve energy efficiency, and ensure the reliability of power quality.

The system ensures the safety of the power consumption system through real - time monitoring and diagnosis of the power consumption network and equipment. It helps users save energy and reduce consumption and use electricity economically through professional and rich energy efficiency management functions. Through rich and user - friendly interactive interfaces, it meets the personalized needs of customers and greatly improves users' management efficiency.



In the construction of smart grids, power monitoring systems play a crucial role. They enable real-time monitoring and optimized dispatching of the power grid, enhancing its reliability and safety. Additionally, these systems facilitate the integration and consumption of renewable energy, driving the grid towards a more intelligent and efficient development path.

It can be used to monitor the operational status of various production equipment within a factory, analyze the energy consumption distribution across the production line, identify high-energy-consuming equipment and processes, and reduce energy consumption by optimizing production processes and adjusting equipment operating parameters, thereby enhancing production efficiency and economic benefits.



It is used to monitor and manage the energy consumption of equipment such as lighting, air conditioning and elevators in large commercial buildings like shopping malls, office buildings and hotels. Through reasonable control of the operation time and modes of the equipment, energy conservation and consumption reduction are achieved, and the operation costs are reduced.

Public institutions such as schools, hospitals, and government agencies can strengthen the management of their electrical equipment and energy usage through power monitoring systems. This helps improve energy utilization efficiency, respond to the national call for energy conservation and emission reduction, and also contributes to reducing the operational costs of public institutions.

Eaton - A global company with local presence

Customers of Eaton benefit from a worldwide network of excellence. Eaton is one of the leading technology corporations for over a century. Today Eaton serves customers in electrical, hydraulics, aerospace, truck and automotive markets.

What customers expect now is to improve the quality and practicality of the service. Eaton is customer-oriented leading company, as a global organization with more than 70,000 employees and sales and distribution channels in more than 180 countries around the world, promises to support local sales and service.

Moreover, Eaton has completed most of its localization operations. This strong position is partly due to the integration of the local sales force of the acquired company and the massive expansion of the partner network. "The combination of localization and global brand resources allows us to provide partners and end customers with all the local support they need."



Capitole, Modan, and xEnergy are all household names in the electrical industry. Based on the large-scale installation base around the world, as well as the corresponding professional knowledge and experience, Eaton has developed a new low-voltage motor control and power distribution product: Power Xpert® DX. DX is a new generation of advanced system, which is in full compliance with standards, with environmental thinking, ergonomics and user interface requirements.

Despite automated logistics and global cooperation, interpersonal communication still plays an important and intuitive role. This kind of communication with customers and understanding their needs and the challenges to be met is indispensable less. Therefore, Eaton provides localized and efficient services at home and abroad.

DX is suitable for a variety of areas. Whether it is an industrial area, or an uninhabited desert area; whether it is a main line switch, a contactor or a button, each product comes from the same company: Eaton. This allows DX to meet high requirements in term of product technology and provide localized services and support.

Customers of Eaton **Benefit** from a worldwide network of excellence



Power Xpert® DX Special Solutions

DC Traction power supply system



Integrated Power Modules & Skids for Data center



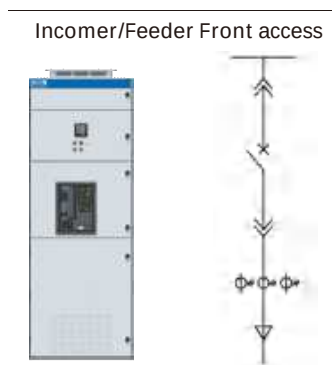
MILVA Low Voltage Assembly



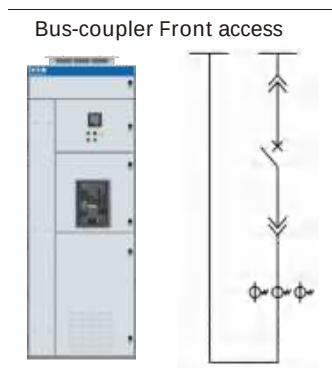
* Consultant Eaton for detail information

Typical Single Line Diagram

Bottom entry/Bus-coupler (Front access)

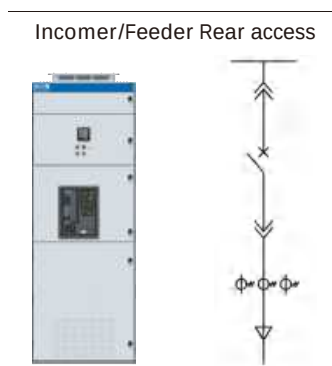


Rated Voltage (Ue)	Rated Frequency (F)	Type (ACB)	Rated current In(A)	Breaking Capacity (Icu)	Poles (P)	Dimension (mm) (WxDxH)
415V	50/60Hz	IZM91	600-1600A	66kA	3P	425x600x2200
415V	50/60Hz	IZM91	600-1600A	66kA	4P	600x600x2200
415V	50/60Hz	IZM97	800-3200A	100kA	3P	600x600x2200
415V	50/60Hz	IZM97	800-3200A	100kA	4P	800x600x2200
415V	50/60Hz	IZM97	4000A	100kA	3P	800x1000x2200
415V	50/60Hz	IZM97	4000A	100kA	4P	1000x1000x2200
415V	50/60Hz	IZM99	4000-5000A	100kA	3P	1100x1000x2200
415V	50/60Hz	IZM99	4000-5000A	100kA	4P	1350x1000x2200
415V	50/60Hz	IZM99	6300A	100kA	3P	1100x1000x2350
415V	50/60Hz	IZM99	6300A	100kA	4P	1350x1000x2350

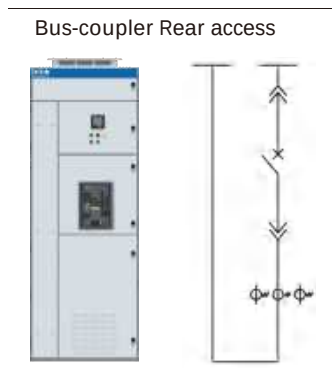


415V	50/60Hz	IZM91	600-1600A	66kA	3P	600x600x2200
415V	50/60Hz	IZM91	600-1600A	66kA	4P	800x600x2200
415V	50/60Hz	IZM97	800-3200A	100kA	3P	800x600x2200
415V	50/60Hz	IZM97	800-3200A	100kA	4P	1000x600x2200
415V	50/60Hz	IZM97	4000A	100kA	3P	1000x1000x2200
415V	50/60Hz	IZM97	4000A	100kA	4P	1200x1000x2200
415V	50/60Hz	IZM99	4000-5000A	100kA	3P	1500x1000x2200
415V	50/60Hz	IZM99	4000-5000A	100kA	4P	1750x1000x2200
415V	50/60Hz	IZM99	6300A	100kA	3P	1500x1000x2350
415V	50/60Hz	IZM99	6300A	100kA	4P	1750x1000x2350

Top/Bottom entry/Bus-coupler (Rear access)



Rated Voltage (Ue)	Rated Frequency (F)	Type (ACB)	Rated current In(A)	Breaking Capacity (Icu)	Poles (P)	Dimension (mm) (WxDxH)
415V	50/60Hz	IZM91	600-1600A	66kA	3P	425x1000x2200
415V	50/60Hz	IZM91	600-1600A	66kA	4P	600x1000x2200
415V	50/60Hz	IZM97	800-3200A	100kA	3P	600x1000x2200
415V	50/60Hz	IZM97	800-3200A	100kA	4P	800x1000x2200
415V	50/60Hz	IZM97	4000A	100kA	3P	800x1000x2200
415V	50/60Hz	IZM97	4000A	100kA	4P	1000x1000x2200
415V	50/60Hz	IZM99	4000-5000A	100kA	3P	1100x1000x2200
415V	50/60Hz	IZM99	4000-5000A	100kA	4P	1350x1000x2200
415V	50/60Hz	IZM99	6300A	100kA	3P	1100x1000x2350
415V	50/60Hz	IZM99	6300A	100kA	4P	1350x1000x2350



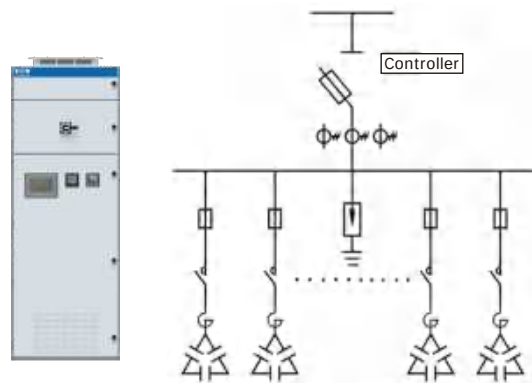
415V	50/60Hz	IZM91	600-1600A	66kA	3P	600x1000x2200
415V	50/60Hz	IZM91	600-1600A	66kA	4P	800x1000x2200
415V	50/60Hz	IZM97	800-3200A	100kA	3P	800x1000x2200
415V	50/60Hz	IZM97	800-3200A	100kA	4P	1000x1000x2200
415V	50/60Hz	IZM97	4000A	100kA	3P	1000x1000x2200
415V	50/60Hz	IZM97	4000A	100kA	4P	1200x1000x2200
415V	50/60Hz	IZM99	4000-5000A	100kA	3P	1500x1000x2200
415V	50/60Hz	IZM99	4000-5000A	100kA	4P	1750x1000x2200
415V	50/60Hz	IZM99	6300A	100kA	3P	1500x1000x2350
415V	50/60Hz	IZM99	6300A	100kA	4P	1750x1000x2350

* Consultant Eaton for 690V system

* Optional breaker type for IZM9/IZM6/IZMS/IZMX

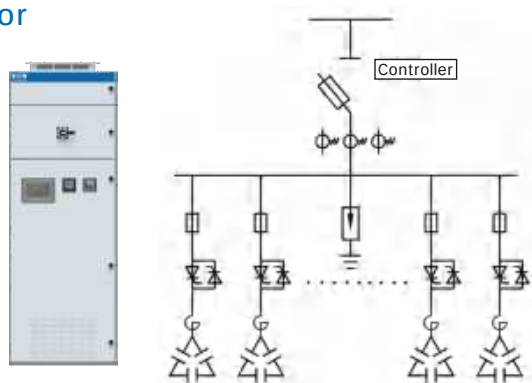
Typical Single Line Diagram

Capacitor Bank



Capacity	Fuse-switch	Fuse	Contactor	Capacitor	Reactor	Controller	Dimension (mm) (WxDxH)
150kvar	QSA-400A	2*NRT16-00-M1/3P 63A	2*DILK25-11	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	600x1000x2200
	NT2-400A	2*NRT16-00-M1/3P 125A	2*DILK50-10	2*CELCR480-33.5-R*2	2*CELR50/400-7		
200kvar	QSA-630A	2*NRT16-00-M1/3P 63A	2*DILK25-11	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	600x1000x2200
	NT3-500A	3*NRT16-00-M1/3P 125A	3*DILK50-10	3*CELCR480-33.5-R*2	3*CELR50/400-7		
250kvar	QSA-630A	2*NRT16-00-M1/3P 63A	2*DILK25-11	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	800x1000x2200
	NT3-630A	4*NRT16-00-M1/3P 125A	4*DILK50-10	4*CELCR480-33.5-R*2	4*CELR50/400-7		
300kvar	QSA-800A	2*NRT16-00-M1/3P 63A	2*DILK25-11	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	800x1000x2200
	NT3-800A	5*NRT16-00-M1/3P 125A	5*DILK50-10	5*CELCR480-33.5-R*2	5*CELR50/400-7		
350kvar	QSA-800A	2*NRT16-00-M1/3P 63A	2*DILK25-11	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	1000x1000x2200
	NT3-800A	6*NRT16-00-M1/3P 125A	6*DILK50-10	6*CELCR480-33.5-R*2	6*CELR50/400-7		
400kvar	QSA-1000A	2*NRT16-00-M1/3P 63A	2*DILK25-11	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	1000x1000x2200
	NT4-1000A	7*NRT16-00-M1/3P 125A	7*DILK50-10	7*CELCR480-33.5-R*2	7*CELR50/400-7		

Capacitor Bank - Thyristor



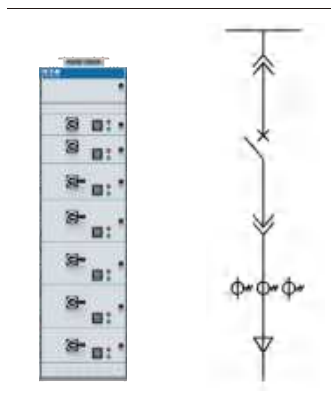
Capacity	Fuse-switch	Fuse	Contactor	Capacitor	Reactor	Controller	Dimension (mm) (WxDxH)
150kvar	QSA-400A	2*NRT16-00-M1/3P 63A	2*TSI-40-400	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	600x1000x2200
	NT2-400A	2*NRT16-00-M1/3P 125A	2*TSI-60-400	2*CELCR480-33.5-R*2	2*CELR50/400-7		
200kvar	QSA-630A	2*NRT16-00-M1/3P 63A	2*TSI-40-400	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	600x1000x2200
	NT3-500A	3*NRT16-00-M1/3P 125A	3*TSI-60-400	3*CELCR480-33.5-R*2	3*CELR50/400-7		
250kvar	QSA-630A	2*NRT16-00-M1/3P 63A	2*TSI-40-400	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	800x1000x2200
	NT3-630A	4*NRT16-00-M1/3P 125A	4*TSI-60-400	4*CELCR480-33.5-R*2	4*CELR50/400-7		
300kvar	QSA-800A	2*NRT16-00-M1/3P 63A	2*TSI-40-400	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	800x1000x2200
	NT3-800A	5*NRT16-00-M1/3P 125A	5*TSI-60-400	5*CELCR480-33.5-R*2	5*CELR50/400-7		
350kvar	QSA-800A	2*NRT16-00-M1/3P 63A	2*TSI-40-400	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	1000x1000x2200
	NT3-800A	6*NRT16-00-M1/3P 125A	6*TSI-60-400	6*CELCR480-33.5-R*2	6*CELR50/400-7		
400kvar	QSA-1000A	2*NRT16-00-M1/3P 63A	2*TSI-40-400	2*CELCR480-33.5-R	2*CELR25/400-7	CELP-12	1000x1000x2200
	NT4-1000A	7*NRT16-00-M1/3P 125A	7*TSI-60-400	7*CELCR480-33.5-R*2	7*CELR50/400-7		

* Reactor: 7%

* Total compensation; consultant Eaton for separated compensation

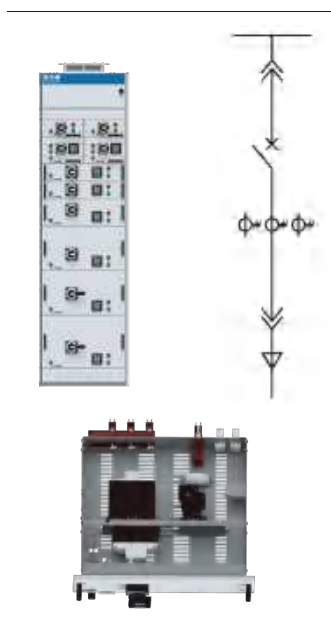
Typical Single Line Diagram

Feeders - Fixed type Fixed/plug-in type, XF panel (400V/415V system)



Type MCCB	Mounting type MCCB	Rated current In(A)	Breaking capacity (Icu)	Poles (P)	Height (H)	Width (W)
NZM1	Fix/Plug-in	20-160A	100kA	3P	150mm	600mm
NZM1	Fix/Plug-in	20-160A	100kA	4P	200mm	600mm
NZM2	Fix/Plug-in	20-250A	150kA	3P	150mm	600mm
NZM2	Fix/Plug-in	20-250A	150kA	4P	200mm	600mm
NZM3	Fix/Plug-in	250-630A	150kA	3P	300mm	600mm
NZM3	Fix/Plug-in	250-630A	150kA	4P	300mm	600mm

Feeder - Withdrawable, XW type (400V/415V system)

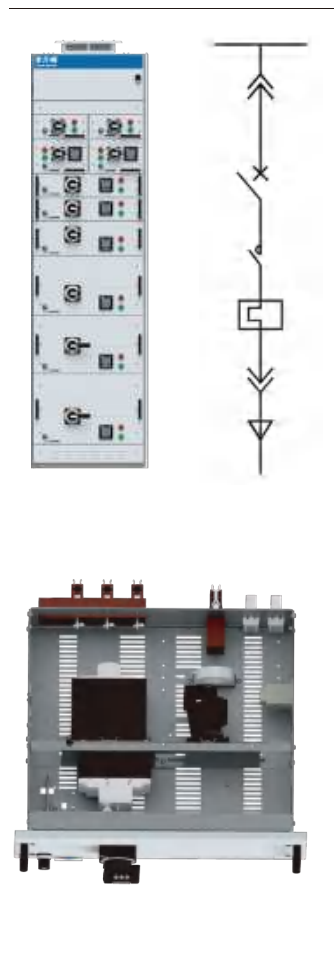


Type MCCB	Mounting type MCCB	Rated current In(A)	Poles (P)	Height (H)	Width (W)
NZM1	Withdrawable	20-63A	3P	125mm	300mm
NZM1	Withdrawable	80A	3P	187.5mm	300mm
NZM1	Withdrawable	100A	3P	125mm	600mm
NZM1	Withdrawable	125A	3P	125mm	600mm
NZM2	Withdrawable	160A	3P	187.5mm	600mm
NZM2	Withdrawable	250A	3P	250mm	600mm
NZM3	Withdrawable	320A	3P	312.5mm	600mm
NZM3	Withdrawable	400A	3P	312.5mm	600mm
NZM3	Withdrawable	630A	3P	375mm	600mm
NZM1	Withdrawable	20-80A	4P	187.5mm	300mm
NZM1	Withdrawable	100A	4P	187.5mm	600mm
NZM1	Withdrawable	125A	4P	187.5mm	600mm
NZM2	Withdrawable	160A	4P	187.5mm	600mm
NZM2	Withdrawable	250A	4P	250mm	600mm
NZM3	Withdrawable	320A	4P	375mm	600mm
NZM3	Withdrawable	400A	4P	375mm	600mm
NZM3	Withdrawable	630A	4P	375mm	600mm

- * Consultant Eaton for 690V system
- * Optional breaker type for NZM/PDC

Typical Single Line Diagram

DOL motor start - Withdrawable type MCC, XW type (400V/415V system)



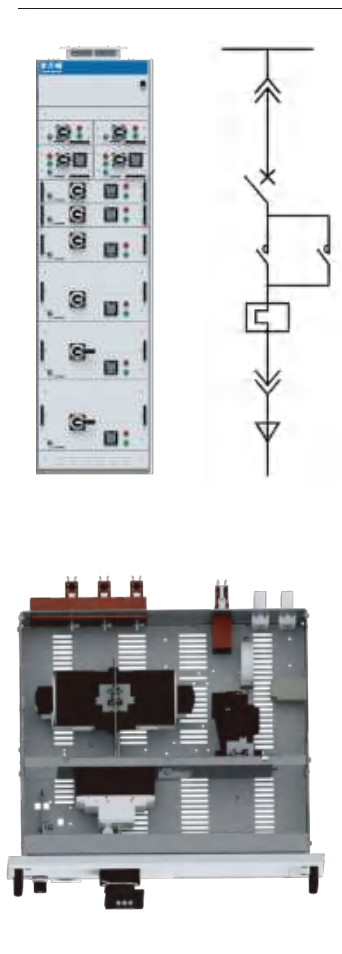
Mounting Type MCCB	Power P(kW)	Rated continuous current Iu(A)	Breaker type	Contactor	Motor protection relay	Height (H)	Width (W)
Withdrawable	0.06	0.22	PKZMC-0.25	DILM7	ZB12C/C300	125mm	300mm
Withdrawable	0.09	0.31	PKZMC-0.4	DILM7	ZB12C/C300	125mm	300mm
Withdrawable	0.12	0.42	PKZMC-0.63	DILM7	ZB12C/C300	125mm	300mm
Withdrawable	0.25	0.84	PKZMC-1	DILM7	ZB12C/C300	125mm	300mm
Withdrawable	0.55	1.5	PKZMC-1.6	DILM7	ZB12C/C300	125mm	300mm
Withdrawable	0.75	2	PKZMC-2.5	DILM7	ZB12C/C300	125mm	300mm
Withdrawable	1.5	3.5	PKZMC-4	DILM7	ZB12C/C300	125mm	300mm
Withdrawable	2.2	5	PKZMC-6.3	DILM7	ZB12C/C300	125mm	300mm
Withdrawable	4	8.5	PKZMC-10	DILM9	ZB12C/C300	125mm	300mm
Withdrawable	7.5	15.2	PKZMC-16	DILM17	ZB32C/C300	125mm	300mm
Withdrawable	9	18.3	PKZMC-20	DILM25	ZB32C/C300	125mm	300mm
Withdrawable	12.5	25	PKZMC-25	DILM32	ZB32C/C300	125mm	300mm
Withdrawable	15	30	PKZMC-32	DILM32	ZB32C/C300	125mm	300mm
Withdrawable	18.5	37	NZM1-40	DILM40	ZB65C/C300	125mm	600mm
Withdrawable	22	42	NZM1-50	DILM50	ZB65C/C300	125mm	600mm
Withdrawable	30	56	NZM1-63	DILM65	ZB65C/C300	187.5mm	600mm
Withdrawable	37	68	NZM1-80	DILM80	ZB150C/C300	187.5mm	600mm
Withdrawable	45	81	NZM1-100	DILM95	ZB150C/C300	187.5mm	600mm
Withdrawable	55	99	NZM2-125	DILM115	ZB150C/C300	250mm	600mm
Withdrawable	75	135	NZM2-160	DILM150	ZB150C/C300	250mm	600mm
Withdrawable	90	161	NZM2-200	DILM170	ZB150C/C300	375mm	600mm
Withdrawable	110	198	NZM2-220	DILM225	ZEB32-5/KK/C300	375mm	600mm
Withdrawable	132	231	NZM3-350	DILM250	ZEB32-5/KK/C300	437.5mm	600mm
Withdrawable/Fixed	160	280	NZM3-350	DILM300	ZEB32-5/KK/C300	500mm	600mm
Withdrawable/Fixed	200	350	NZM3-450	DILM400	ZEB32-5/KK/C300	625mm	600mm
Withdrawable/Fixed	250	437	NZM3-550	DILM500	ZEB32-5/KK/C300	625mm	600mm

* Consultant Eaton for 690v system

* Optional breaker type for NZM/PDC

Typical Single Line Diagram

FR motor start - Withdrawable type MCC, XW type (400V/415V system)



Mounting Type MCCB	Power P(kW)	Rated continuous current I _n (A)	Breaker type	Contactor	Motor protection relay	Height (H)	Width (W)
Withdrawable	0.06	0.22	PKZMC-0.25	DILM7	ZB12C/C300	125mm	600mm
Withdrawable	0.09	0.31	PKZMC-0.4	DILM7	ZB12C/C300	125mm	600mm
Withdrawable	0.12	0.42	PKZMC-0.63	DILM7	ZB12C/C300	125mm	600mm
Withdrawable	0.25	0.84	PKZMC-1	DILM7	ZB12C/C300	125mm	600mm
Withdrawable	0.55	1.5	PKZMC-1.6	DILM7	ZB12C/C300	125mm	600mm
Withdrawable	0.75	2	PKZMC-2.5	DILM7	ZB12C/C300	125mm	600mm
Withdrawable	1.5	3.5	PKZMC-4	DILM7	ZB12C/C300	125mm	600mm
Withdrawable	2.2	5	PKZMC-6.3	DILM7	ZB12C/C300	125mm	600mm
Withdrawable	4	8.5	PKZMC-10	DILM9	ZB12C/C300	125mm	600mm
Withdrawable	7.5	15.2	PKZMC-16	DILM15	ZB32C/C300	125mm	600mm
Withdrawable	9	18.3	PKZMC-20	DILM25	ZB32C/C300	125mm	600mm
Withdrawable	12.5	25	PKZMC-25	DILM32	ZB32C/C300	125mm	600mm
Withdrawable	15	30	PKZMC-32	DILM32	ZB32C/C300	125mm	600mm
Withdrawable	18.5	37	NZM1-40	DILM40	ZB65C/C300	125mm	600mm
Withdrawable	22	42	NZM1-50	DILM50	ZB65C/C300	125mm	600mm
Withdrawable	30	56	NZM1-63	DILM65	ZB65C/C300	187.5mm	600mm
Withdrawable	37	68	NZM1-80	DILM72	ZB65C/C300	187.5mm	600mm
Withdrawable	45	81	NZM1-100	DILM95	ZB150C/C300	250mm	600mm
Withdrawable	55	99	NZM2-125	DILM115	ZB150C/C300	250mm	600mm
Withdrawable	75	135	NZM2-160	DILM150	ZB150C/C300	250mm	600mm
Withdrawable	90	161	NZM2-200	DILM170	ZB150C/C300	375mm	600mm
Withdrawable	110	198	NZM2-220	DILM225	ZEB32-5/KK/C300	375mm	600mm
Withdrawable	132	231	NZM3-350	DILM250	ZEB32-5/KK/C300	437.5mm	600mm
Withdrawable/Fixed	160	280	NZM3-350	DILM300	ZEB32-5/KK/C300	500mm	600mm
Withdrawable/Fixed	200	350	NZM3-450	DILM400	ZEB32-5/KK/C300	625mm	600mm
Withdrawable/Fixed	250	437	NZM3-550	DILM500	ZEB32-5/KK/C300	625mm	600mm

- * Consultant Eaton for 690v system
- * Optional breaker type for NZM/PDC

Electrical Data

Item		Power Xpert® DX
Parameter		
Application		Power supply
		Motor control
Standard		GB/T 7251.1/2
		GB/T 7251.8
		IEC61439-1/2
		IEC61641
		IEC60068-3-3
Mounting Location		Indoor
Environment temperature (°C)		-5~40
Altitude (m)		≤4000
Electrical parameter		
Rated voltage (Ue)		400V, 690V*
Rated insulated voltage (Ui)		1000V
Rated impulse withstand voltage (Uimp)		12KV
Overvoltage category		IV
Pollution degree		3
Rated frequency (Hz)		50/60
Main busbar	Rated current (A)	up to 6300
	Rated short-time withstand current (Icw)(kA)	50/65/80/100
	Rated peak current (Ipk)(kA)	105/143/176/220
Distribution busbar	Rated current (A)	2000
	Rated short-time withstand current (Icw)(kA)	50/65/80/100
	Rated peak current (Ipk)(kA)	105/143/176/220
Internal Arc protection IEC 61641		100kA/0.5s
Grounding system		TT-IT-TNS-TNC
Mounting density of drawer		maximum installation is 28 half size drawer units
Max ACB (A)		Up to 6300
Max Motor power (kW)		250
Drawer max feeder current (A)		630
Mechanical parameter		
Height (mm)		2200/2350
Width (mm)		425/500/600/800/1000/1100/1200/1350/1500/1750
Depth (mm)		600/1000/1200/1400
Form of separation		Form2b/3b/4b
Degree of protection		IP42/54
Color		RAL7035

Comments:* Confirm with Eaton

Eaton is an intelligent power management company dedicated to protecting the environment and improving the quality of life for people everywhere. We make products for the data center, utility, industrial, commercial and institutional, machine building, residential, aerospace and mobility markets. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power — today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're helping to solve the world's most urgent power management challenges and building a more sustainable society for people today and generations to come.

Founded in 1911, Eaton has continuously evolved to meet the changing and expanding needs of our stakeholders. With revenues of \$27.4 billion in 2025, the company serves customers in 180 countries. Eaton entered the Chinese market in 1993 and has grown significantly since then. In 2004, Eaton moved its Asia-Pacific headquarters from Hong Kong to Shanghai. Today, Eaton has nearly 9,000 employees and 20 manufacturing facilities in China.

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