

SaleTel:17678809686

Medium Voltage Switchgear

40.5kV ET2

AC Metal-enclosed Switchgear



EATON

Powering Business Worldwide



Automotive



Aerospace



Truck



Hydraulics



Electrical

Powering business worldwide

Eaton delivers the power inside hundreds of products that are answering the demands of today's fast changing world.

We help our customers worldwide manage the power they need for buildings, aircraft, trucks, cars, machinery and entire businesses. And we do it in a way that consumes fewer resources.

Next generation transportation

Eaton is driving the development of new technologies – from hybrid drivetrains and emission control systems to advanced engine components – that reduce fuel consumption and emissions in trucks and cars.

Higher expectations

We continue to expand our aerospace solutions and services to meet the needs of new aviation platforms, including the high-flying light jet and very light jet markets.

Building on our strengths

Our hydraulics business combines localised service and support with an innovative portfolio of fluid power solutions to answer the needs of global infrastructure projects, including locks, canals and dams.

Powering Greener Buildings and Businesses

Eaton's Electrical Group is a leading provider of power quality, distribution and control solutions that increase energy efficiency and improve power quality, safety and reliability. Our solutions offer a growing portfolio of "green" products and services, such as energy audits and real-time energy consumption monitoring. Eaton's Uninterruptible Power Supplies (UPS), variable-speed drives and lighting controls help conserve energy and increase efficiency.

MV switchgear technology is in our DNA

Eaton Corporation is a worldwide leader in the design, manufacture, and sale of safe, reliable and high-performance medium voltage power distribution equipment in accordance with IEC, ANSI and GB / DL standards

Complete Global Medium Voltage Switchgear Solutions

Eaton, a premier leader in designing and manufacturing power distribution and protection equipment in the electrical industry, offers a comprehensive range of medium voltage (MV) solutions to meet the needs of virtually every application. From products that feature cutting-edge design that allow for easy access, maintenance and space savings, to arc-resistant products that enhance safety, Eaton's medium voltage solutions provide a variety of products for every need. Additionally, Eaton's global service network provides maximum customer support in all regions of the world.

As one of the few completely vertically integrated and diversified industrial manufacturers in the world, Eaton designs not only MV assemblies, but also the key components that comprise the MV solutions – from steel housing and circuit breaker compartments to vacuum interrupters, circuit breakers, bus systems and fuses.

Eaton's MV heritage, strengthened by acquisitions such as Westinghouse DCBU, Cutler Hammer, MEM and Holec, has resulted in breakthrough MV technologies and numerous international patents over the years.

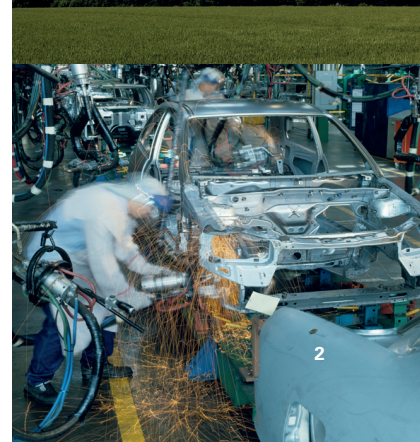
Part of Eaton's complete electrical PowerChain Solutions – which help businesses minimize risks while realizing greater reliability, cost efficiencies, capital utilization and safety – Eaton's medium voltage equipment meets all applicable standards and certifications such as IEC, NEMA / ANSI, GB / DL, UL, IEEE, KEMA and CSA.

When it comes to medium voltage solutions, you can trust the one name with a long history of proven performance: Eaton.

Eaton's range of
SF₆ free switchgear
for Medium Voltage



An Eaton Green Solution



40.5kV ET2

AC Metal-enclosed Switchgear

Overview

Eaton has a history of more than 80 years in the design, manufacture and application of medium voltage switchgear, and has a wealth of experience. Eaton has always been at the forefront of advanced technology. It pioneered the application of vacuum arc extinguishing 80 years ago and introduced epoxy resin insulation 50 years ago. Eaton has always been committed to product development, innovation and improvement, and is constantly striving to reduce size and cost.

ET2 product is an indoor installed 40.5kV armored removable air-insulated switchgear, which is suitable for three-phase AC 50Hz single bus breaking system, including 630~3150A series products. ET2 switchgear is equipped with Eaton 405W-VACi series handcart vacuum circuit breakers, which is suitable for receiving and distributing electric energy in power grids, substations, industrial and mining enterprises and commercial buildings, and can realize the control, protection and monitoring of distribution lines.

ET2 switchgear has a compact structure, which has been fully verified by type tests, and has been optimized in terms of safety, reliability, cost-effectiveness and high efficiency.



Operating conditions

Normal use conditions in indoor installation and use:

- An ambient temperature of -25°C ~+40°C, and the daily average temperature does not exceed 35°C;
- Humidity conditions: The daily average relative humidity is not higher than 95%, and the monthly average relative humidity is not higher than 90%;
- The surrounding air is not obviously polluted by dust, smoke, corrosive and combustible gases, steam or salt pollution;
- The altitude is no more than 1,000m;
- Earthquake intensity does not exceed level 8;
- The amplitude of electromagnetic interference induced in the secondary system shall not exceed 1.6 kV.

If the operating conditions exceed GB/T11022 and the above provisions, contact Eaton for confirmation.

Adopted standards

- GB/T 3906 Alternating-current metal-enclosed switchgear and controlgear for rated voltages above 3.6 kV and up to and including 40.5 kV
- GB/T 11022 Common specifications for high-voltage switchgear and controlgear standards
- DL/T 404 Alternating-current metal-enclosed switchgear and controlgear for rated voltages above 3.6 kV and up to and including 40.5 kV
- DL/T 593 Common specifications for high-voltage switchgear and controlgear standards
- IEC 62271-200 High-voltage switchgear and controlgear - Part 200: AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV

Industries of application

- Power grid
- Commercial buildings
- Chemical industry
- Metallurgy
- Industries and corporations

Reliable safety

- Completely metal closed structure prevents dirt and small animals from entering
- Each compartment is isolated from each other and has an independent pressure relief channel
- Grounding switch has short-circuit closing capability
- Five-prevention interlocking effectively prevents faulty operation and straying into live intervals
- Mechanical interlocking guarantees complete door closing operation
- The arc protection inside the product reaches AFLR 31.5kA 1s.
- Comprehensive third-party test certification

Wide applicability

- Suitable for three-core or single-core cable connection
- Suitable for incoming/outgoing line on cable or bus, as well as mixed incoming and outgoing of cable lower outgoing line/bus upper incoming line
- Equipped with standard block current/voltage transformer
- Interfaces are reserved on both sides of the switchgear, which can be easily expanded

Easy operation

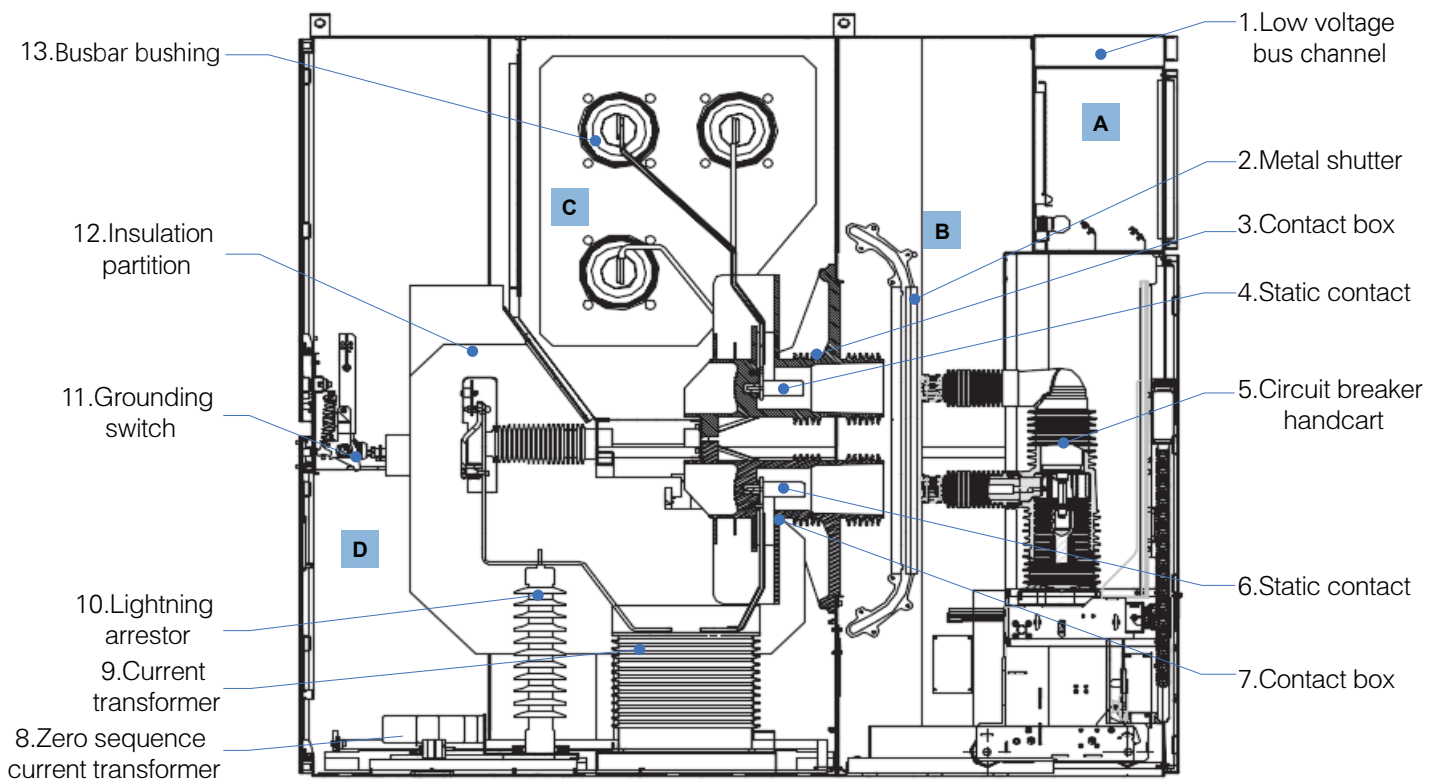
- Through the front door observation window, the position of the circuit breaker and the on/off/energy storage status can be viewed
- Multi-point locking quick door lock, reliable locking and easy operation
- The handcart of circuit breaker is maintenance-free, and the operating mechanism only needs little maintenance
- The handcart of circuit breaker adopts high-efficiency lead screw mechanism, which saves effort in propulsion
- The handcart has good interchangeability and is easy to replace
- The secondary line is laid in a detachable metal trough for easy inspection



Basic structure

The interior of ET2 switchgear is divided into bus compartment, circuit breaker compartment, cable compartment and low voltage compartment. The cabinet body is of modular structure, which can ensure the strength and accuracy of the switchgear. The reserved interfaces on both sides of the switchgear can conveniently realize the expansion of the system.

Structural Schematic of the Switchgear



A—Low voltage compartment B- Circuit breaker compartment
C- Busbar compartment D- Cable compartment



Preventing against internal arc fault

The vacuum circuit breaker adopts a unipolar structure with each phase sealed and insulated and a fully insulated bus system to ensure that the high-voltage conductors of the whole circuit are insulated and isolated from each other, thus avoiding/reducing possible internal arc faults to the greatest extent.

Internal arc level: The biggest potential threat for the operator is the arc generation inside the switchgear. With the metal armor design of ET2 and solid structure, all three high-voltage compartments have passed the internal arc fault test, and the IAC rating can reach 31.5kA-1s.

According to the protection level of arc fault in switchgear defined by the standard, the arc IP level provided by ET2 is AFLR.

A= personnel protection (authorized personnel only)

F= protection of front switchgear

L= protection of lateral switchgear

R= protection of rear switchgear

Accessibility of compartments

- Busbar compartment: Tool-based/inaccessible
- Circuit breaker compartment: Interlock controlled
- Cable compartment: Tool-based or optional interlock control

Operational continuity category: LSC2B

Partion grade: PM

Grounded metal partitions are adopted for the partitions and shutters between the live parts of the switchgear and the open compartments.

IP level

The standard external IP level of switchgear design is IP4X, and the IP level between internal compartments is IP2X.

Grounding

Each switchgear is provided with a through main grounding bar, and a rectangular copper bar with appropriate cross-section is selected according to the breaking capacity of the system, thus ensuring a simple and effective grounding connection between the switchgear and the grounding grid of the switching station.

The grounding conductors in the switchgear are vertically and horizontally distributed in the cabinet and connected to the grounding switch and the main grounding bar. The whole grounding system has passed the grounding short circuit fault test.

Circuit breaker handcarts and handcarts with other functions are connected with the main grounding bar through the grounding bar at the bottom.

Special grounding wires are provided for switchgear doors and low voltage compartments of switchgear to ensure reliable grounding.

Safety interlocking

In order to ensure the safety of workers, a series of "five prevention" interlocking devices are designed in ET2 to prevent misoperation that may cause dangerous situations and serious consequences, thus effectively protecting operators and switchgear.

Basic interlocks

- Only when the circuit breaker is in the open state can the handcart move between the test/isolation position and the working position (mechanical interlocking).
- Only when the handcart is fully engaged in the test or working position can the circuit breaker be closed (mechanical interlocking). When the handcart is in the test or working position without control voltage, the circuit breaker cannot be closed, but can only be opened manually (mechanical and electrical interlocking).
- When the handcart is in the working position, the control line plug is locked and hence cannot be pulled out.
- When the grounding switch is closed, the handcart cannot move from the test/isolation position to the working position; When the handcart is in the working position, the grounding switch cannot be closed (mechanical interlocking).
- When and only when the earth switch is off, the rear door of the cable compartment may be opened (mechanical interlock). When the rear door is not closed, it is impossible to turn on the earth switch.

Additional interlocks

- Additional electrical or mechanical locks are used to realize interlocking between bus grounding and upstream incoming/downstream outgoing.
- Additional interlocking devices, such as locking electromagnets, can be installed on the handcart and/or the grounding switch operating mechanism.
- Once the handcart moves away, the shutter may be locked with a padlock.
- The operation hole of the earth switch may be locked by adding a padlock.
- Additional charged compulsory latching device may be installed to the door of the cable compartment of the switchgear.

Anti-condensation measures

Electric heaters are installed in circuit breaker compartment and cable compartment of switchgear to prevent possible condensation during high humidity and sudden temperature drop.

Protection of surfaces

The frame of switchgear is made of high-quality aluminum-coated zinc plate, which is once formed by flexible CNC machining center, formed by multiple folding processes, and fastened and assembled with high-strength bolts and rivets, characterized by high machining accuracy, good overall rigidity and strong corrosion resistance.

The surfaces of exposed parts such as cabinet doors and sealing plates are all sprayed with epoxy resin electrostatic powder, and after electrostatic spraying, the coating is plasticized and cured at 180°C-190°C, which has the advantages of strong adhesion, impact resistance, corrosion resistance and beautiful appearance.

The standard color of the cabinet is RAL7035 computer gray, which can also meet the requirements of color code provided by customers.

Auxiliary and control circuit

Conductor section specifications:

Current circuit $\geq 2.5\text{mm}^2$

Voltage circuit $\geq 1.5\text{mm}^2$

Withstand voltage level: 2000V/min

Wiring method: Terminal blocks are fixed, the number of terminals meets the line requirements, and 10% is reserved for standby and equipped with connecting pieces.

Low voltage compartment

The low voltage compartment is composed of grounded metal partitions as an independent compartment module, and grid plates/terminal bars/secondary grounding bars are arranged inside to provide sufficient space for secondary control and protection equipment.

The upper part of the low voltage switchgear is provided with an independent low-voltage bus channel, which can be opened independently and connects the low-voltage bus between adjacent cabinets and runs through the whole row of switchgear.

Busbar compartment

The busbar compartments are separated from one another through grounded metal partition boards and casings. There are separate pressure relief channels. The whole busbar system is fully insulated to guarantee the insulation level and to minimize the possibility of arc fault. When the current is large, the bushing is installed on the stainless steel plate to reduce the eddy current heating of the bus current.

The main bus bushing is equipped with equalizing ring and shield to optimize the local electric field structure, ensure reliable insulation and low partial discharge level.

Bus system

The main bus and branch bus adopt rectangular copper bars with rounded corners with high conductivity.

- Separate partitions are provided between bus compartments.
- The surface of copper bar is coated with epoxy resin or equipped with heat shrinkable sleeve, and the lap joint is covered with insulating buckle box.
- The fully insulated main bus runs through the whole switchgear.
- Bus support adopts insulator with large climbing distance.
- Pre-drilled copper bars facilitate field connection.
- The maximum rated current of bus system is 3150A, and the short-circuit current is 31.5kA-4s.

Design Overview

Circuit breaker compartment

Circuit breaker compartment is composed of grounded metal partition with independent pressure relief channel at the upper part.

When the door is completely closed, the circuit breaker can be fully operated from the front of the switchgear by using the manual button or operating lever.

A handcart guide rail is installed at the bottom of the circuit breaker compartment for the handcart to position and move, and the guide rail can automatically align the isolation contact once when pushing the circuit breaker handcart. The guide rail is provided with an automatic valve driving mechanism to ensure that the shutter automatically opens when the handcart moves from the "test" position to the "running" position; When moving in the reverse direction, the shutter closes automatically, thus realizing the effective shielding of the primary contact.

A grounding copper bar is installed at the bottom of the circuit breaker compartment to ensure that the handcart is connected with the main grounding system of the switchgear as soon as it enters the "test" position of the switchgear, and keeps continuous grounding during the rocking-in/rocking-out process of the handcart.



Shutter

The earthed metal shutters on the busbar and cable sides can be separately operated. The shutters will automatically open or close as the handcart moves in or out.

When the circuit breaker is in the test or isolation position, the shutter automatically closes to prevent contact with any live parts.

When the circuit breaker handcart is moved out of the switchgear, a padlock may be added with the shutter closed to ensure that the service personnel do not contact high voltage charged conductors.

Cable compartment

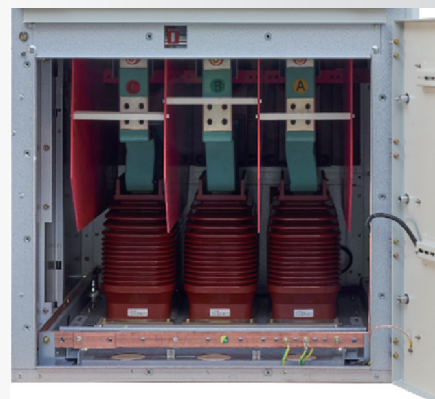
Components such as current transformer, voltage transformer, grounding switch and lightning arrester can be installed in the cable compartment, and insulation partitions are installed in the cable compartment to ensure the phase-to-phase and phase-to-ground insulation strength.

A grounding switch opening/closing sign can be seen behind the cable compartment.

The cable compartment door is mechanically interlocked with the grounding switch, and the cable compartment door can only be opened when the grounding switch is closed; Only when the cable compartment door is fully closed and locked can the grounding switch be operated.

Cable connecting conductors can be connected in parallel with six single-core cables or three 400mm² three-core cables at the same time, with a connection height of 750 mm, which is convenient for connection construction.

The rear lower part of the cable compartment is provided with a transverse main grounding bus bar, which is connected with the whole row of switchgear and connected with the main grounding grid of the distribution compartment after installation.



Current transformer

The switchgear is configured with the standard epoxy resin poured block current transformer.

Earth switch

The grounding switch is installed at the rear of the cable compartment of the cabinet, and the opening and closing operation is carried out in front of the switchgear. The status of the grounding switch can be directly observed through the window or displayed through the indication on the low voltage panel.

There is a mechanical interlock between the grounding switch and the handcart of the circuit breaker, and the grounding switch can only be operated when the handcart is in the test/isolation position.

There is also a mechanical interlock between the earth switch and the cable compartment door to ensure that the cable compartment door may only be opened after the earth switch is turned to off.

405W-VACi vacuum circuit breaker

- The excellent insulation performance of the pole of vacuum circuit breaker sealed with epoxy resin has been verified by condensation test, which is suitable for the harsh operating environment
- Use of Eaton's latest vacuum interrupter that has a long life span, low wear and low cut-off value
- The latest generation of spring operating mechanism has stable performance and long service life, without maintenance under normal use conditions
- It can ideally fit capacitive loads (single capacitor or capacitor bank) and has extremely low re-breakdown rate
- Electrically operated AC/DC dual-purpose
- The spring energy reserve indicator is equipped with the auxiliary contact to be capable of displaying the status of the spring at a distance
- Mechanical status indicator can display on/off status
- Auxiliary contacts can display on/off status
- The position indicator can display the closed/test position of the circuit breaker
- The auxiliary contact may be used for remote display of the position
- Mechanical interlock for forced door closing
- The mechanical interlock ensures that the circuit breaker may only be moved in or out when disconnected



Quality and service warranty

Certifications

- All products have been certified through type-testing performed at a third-party test station
- Related product high-tech certifications



Factory acceptance test (FAT)

- FAT test is implemented according to the test items required by customers
- Field facilities and simulated field environment, testing and measuring test equipment and complete documentation are provided as required
- Customer engineers take part in the whole process as witnesses and sign off for confirmation

Factory Inspection

- Strict ex-work inspections are performed on each vacuum interrupter, circuit breaker and switch equipment. Upon completion of the overall installation, thorough appearance checks and mechanical functional and electrical tests need to be performed.
- Before being released from the factory, circuit breakers go through standard switchgear coordination tests to ensure product interchangeability and universality.
- Before being released from the factory, circuit breakers go through the run-in test for mechanical operation to ensure steadiness of the performance.
- The ex-work inspection data of all products are archived and traceable.

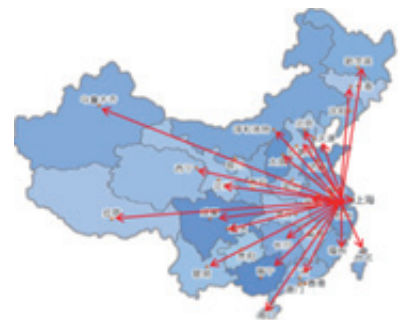
Quality control

- R&D process is managed by Prolaunch process
- The manufacturing plant follows the global unified Eaton Quality, Environment and Safety System (EQS&EHS); It has passed ISO14001/OHSAS18001 system certificate
- Both the switchgear and the circuit breaker are tooled to ensure consistency in dimensions
- Quality test from raw material to finished product
 - Automatic three-axis imaging test
 - X-ray testing
 - Loop resistance test
 - Switchgear mechanical property test
 - Pressure tolerance and local release test
 - Mechanical and electrical test



Service commitment

- Service locations available throughout the nation
- After-sales service team engineers have more than 10 years of working experience and good skills, and can quickly and efficiently deal with on-site failures, and cooperate with users in on-site installation, debugging and commissioning
- Respond to customer feedback and complaint feedback within 8 hours
- After-sales service hotline: 400-828-0505



Technical Parameters

Technical parameters of switchgear

Model		ET2-40.5
Parameters of system		
Rated voltage	kV	40.5
Rated power frequency withstand voltage (1 min)	kV	95/118
Rated lightning impulse withstand voltage (BIL)	kV	185/215
Rated frequency	Hz	50
Busbar parameters		
Main busbar rated current	A	1250; 1600; 2000; 2500; 3150
Branch busbar rated current	A	630; 1250; 1600; 2000; 2500; 3150(FC)*
4s thermal withstand current (RMS)	kA	25; 31.5
Rated peak withstand current (peak)	kA	63; 80
IP level		Enclosure IP4X, compartment IP2X
Switchgear dimensions		
Width W	mm	1200/1400
Height H (excluding low-voltage bus channel)	mm	2400/2600
Depth D	mm	2600/2800
Weight (including circuit breaker)	kg	1000~1850
Note		* When the rated current of branch bus reaches 3150A, forced cooling by fan is required.

Circuit breaker technical parameters

Model		40.5W-VACi
Rated voltage	kV	40.5
Rated power frequency withstand voltage (1 min)	kV	95/118
Rated lightning impulse withstand voltage (BIL)	kV	185/215
Rated frequency	Hz	50
Rated current	A	630; 1250; 1600; 2000; 2500; 3150
Rated short circuit breaking current (RMS)	kA	25; 31.5
Rated short-circuit making current (peak)	kA	63; 80
4s rated short-term withstand current (RMS)	kA	25; 31.5
Circuit breaker rating		E2/M2/C2
Closing time	ms	25~50
Opening Time	ms	40~60
Mechanical endurance	次	10,000
Rated operating sequence		0-0.3s-CO-180s-CO
Energizing motor power	W	150
Energizing motor voltage	V	DC/AC110; DC/AC220
Normal operating voltage of energizing motor		85%~110% of rated voltage
Energy storage time of motor (s)	s	≤15
Opening/Closing coil voltage	V	DC/AC110; DC/AC220
Normal operating voltage of opening/closing coil		80%~110% of rated voltage (closing electromagnet) 65%~110% of rated voltage (opening electromagnet)
Working current of opening/closing coil	A	≤6(DC/AC110V), ≤4(DC/AC220V)

Basic solution and configuration

Solution		Incoming line 1		Incoming line 2		Feeder 1		Feeder 2		Feeder 3		Metering	
Single line diagram													
Rated current (A)		630~3150		630~3150		630~3150		630~3150		630~3150		630~3150	
Primary electrical element	Vacuum circuit breaker 405W-VACi	●	1	●	1	●	1	●	1	●	1		
	Isolation handcart GLC												
	Current transformer LZBJ9-35	●	3	●	3	●	3	●	3	●	3	●	3
	Voltage transformer JDZX9-35/JDZX11-35R							○	1 pieces/fixed installation	●	3 pieces/fixed installation	●	3 pieces/handcart installation
	Current-limiting fuse XRNT-40.5/XRNP-40.5							○	2 pieces/fixed installation	●	3 pieces/fixed installation	●	3 pieces/handcart installation
	Grounding switch ES-40.5					●	1	●	1	●	1		
	Zero-sequence current transformer LXX					○	1						
	Electrical display	●	1	●	1	●	1	●	1	●	1	●	1
	Lightning arrester HY5WZ-51/134					○	3	○	3	○	3		
	Transformer SC9-50/35												

Solution		Liaison		Isolation		Bus bar device 1		Bus bar device 2		Bus bar device 3		Transformer used	
Single line diagram													
Rated current (A)		630~3150		630~3150		<=630		<=630		<=630		<=200A	
Primary electrical element	Vacuum circuit breaker 405W-VACi	●	1										
	GLC Isolation handcart GLC			●	1	●	1						
	Current transformer LZBJ9-35	●	3	○	3								
	Voltage transformer JDZX9-35/JDZX11-35R					●	3 pieces/fixed installation	●	3 pieces/fixed installation	●	3 pieces/fixed installation		
	Current-limiting fuse XRNT-40.5/XRNP-40.5					●	3 pieces/fixed installation	●	3 pieces/fixed installation	●	3 pieces/fixed installation	●	3 pieces/fixed installation
	Grounding switch ES-40.5									○	1		
	Zero-sequence current transformer LXX												
	Electrical display	●	1	●	1	●	1	●	1	●	1	●	1
	Lightning arrester HY5WZ-51/134					○	3	●	3 pieces/fixed installation	○	3		
	Transformer SC9-50/35											●	1

Note:

● Required configuration ○ Optional configuration

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General requirements for the installation of switchgear

The installation places and passages of switchgear shall comply with the relevant provisions of GB/T 50053 Code for design of 20kV and below substation.

The installation foundation of switchgear shall comply with the relevant provisions in the Technical Code for Construction and Acceptance of Electric Power Construction. The installation foundation for the switchgear usually requires two concrete pouring efforts.

The first one is meant to install embedded parts of the switchgear and pave the underlying channel steel. The second one is for the supplementary layer of the ground, with a general height of 60 mm. When pouring the supplementary layer of concrete, the concrete height should be 3-6 mm lower than the plane of the channel steel.

The patterns of primary and secondary cable grooves of the switchgear depend on the location and construction conditions of the switchgear to be installed.

The flatness error of switchgear installation foundation shall not be more than 1 mm per meter. The full-length error shall not exceed 3 mm.

As per engineering demands and indication on the drawings, transport the switchgear to a designated location. If a row of switchgear is too long (more than 10 units), splicing of switchgear shall be started from the middle.

There should be suitable transport tools in the field of installation, such as cranes and forklifts; rollers and crowbars are strictly prohibited.

During installation, the circuit breaker handcart should be removed from inside the switchgear and be placed in another place for proper storage first.

During installation, first calibrate the first unit or ensure that horizontal and vertical requirements are met from the first connecting surface.

Unevenness of the switchgear after installation shall not exceed 2 mm.

After correcting the first cabinet, install other cabinets, and pay attention to the alignment of the side holes with the installed switchgear connection surfaces.

Included documents

- Product Qualification Certificate
- Product Ex-work Inspection Report
- Packing List
- Installation and Operation Instructions
- List of Included Spare Components and Parts and Accessories
- Secondary wiring diagram
- Other relevant materials required by the customer

Ordering information

- It is required to provide the following information when placing an order:
- System wiring diagram, primary solution layout and floor plan
- Basic parameters, including Rated voltage, rated current, short circuit breaking current and control power supply voltage;
- Line access approach and line access cable specification and quantity
- Special requirements for the element model number, specification and quantity (if any)
- For special user environments or requirements, please contact Eaton first.

Spare components and parts and accessories

The accessories of switchgear generally include:

- Circuit breaker energy reserve handle
- Circuit breaker opening/closing operating handle
- Handcart access handle
- Earth switch operating handle
- Specialized tools

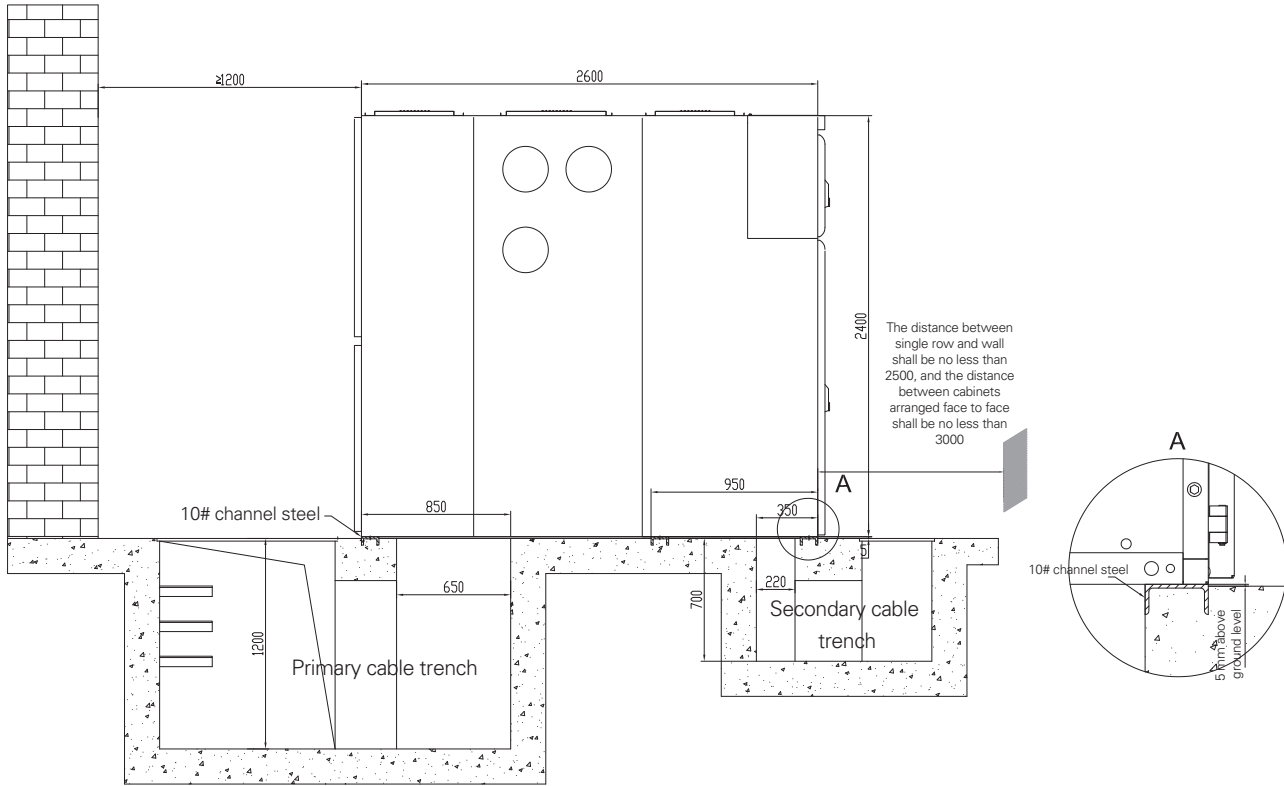
Spare components and parts generally include:

- PT protection high voltage fuse
- Opening coil
- Closing coil
- Energized display device
- Auxiliary switch
- Indicator
- Switch
- Rear door electromagnetic lock

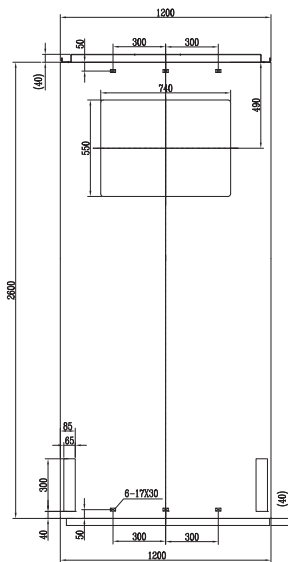
The list of spare components and parts is eventually based on customer requirements and decided mutually between the supplier and the party with demand.

Foundation and floor openings

Schematic Diagram of ET2 Installation Foundation



ET2 Floor Opening Drawing



Suitable for ET2 feeder cabinet
with a cabinet depth of 2600

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Eaton's mission is to improve the quality of life and the environment through the use of power management technologies and services. We provide sustainable solutions that help our customers effectively manage electrical, hydraulic, and mechanical power – more safely, more efficiently, and more reliably. Eaton's 2020 revenues were \$17.9 billion, and we sell products to customers in more than 175 countries. We have approximately 92,000 employees.

Eaton began operation in China more than 20 years ago. Since entering the Chinese market in 1993, Eaton's presence has grown significantly in the country. In 2004, Eaton moved its Asia Pacific headquarters from Hong Kong to Shanghai.

In the Greater China region, Eaton has nearly 9,800 employees, 29 manufacturing bases and 5 R&D centers. Today, we make most products for all of Eaton's distinct business here.

For more information about Eaton China, visit: www.eaton.com.cn
Eaton China official social media account: **Eaton_China**

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