

Power Equipment



Complete Set of Medium Voltage Power Equipment

Product Introduction

The NXAirS switchgear is the latest compact air-insulated switchgear from SIEMENS complying with the latest standards. the switchgear is easy to operate, and the rich global operating experience of SIEMENS provides users with maximum security. NXAirS switchgear has achieved internal arcing class IAC A FLR, loss of operational continuity class LSC 2B, and partition class PM, which makes it suitable for various installation methods and maximizes the safety of operators.

NXAirS removable metal-armored medium-voltage switchgear is installed indoors, conforming to GB3906 and DL404 (insulation), IEC62271-200/VDE0671-200 (former IEC60298 and VDE0670-6) and other standard requirements.

Technical Parameters

Model		Parameters	
Rated voltage(kV)		kV	12
Rated current(A)		A	630, 1250, 2000, 2500, 3150, 4000
Rated power frequency tolerance	Interphase, opposite	kV	42
	Between fractures	kV	48
Rated lightning shock tolerance voltage	Interphase, opposite	kV	75
	Between fractures	kV	85
Rated short-circuit breaking current		kA	25, 31.5, 40
Rated short-circuit closing current		kA	63, 80, 100
Rated peak tolerance current		kA	63, 80, 100
Rated short time tolerance current		kA/S	25/4, 31.5/4, 40/4
Grounding switch temporarily withstand current		kA/S	25/4, 31.5/4, 40/4
Ingress protection			IP4X
Resistance to internal arc failure test			AFCR 25kA/31.5kA/40kA/1S

● Product continues to iterate, specifications may be updated without prior notice.



NXAirS LP
Air insulated, removable metal armoured medium voltage switchgear, Manufactured by **SIEMENS**



KYN28A-12/24
Metal armored withdrawable switchgear

Product Introduction

KYN28A series indoor metal armored withdrawable switchgear is a new type of center-mounted switchgear developed on the basis of widely absorbing the advantages of similar products at home and abroad. The cabinet is equipped with a vacuum circuit breaker, which can be equipped with online temperature monitoring function to prevent faults caused by poor contact of the primary plug. It can be used for 7.2~24KV power distribution devices in power plants, substations, industrial and mining enterprises, and high-rise buildings as a single bus system to receive and distribute electric energy. Comply with GB3906, IEC60298.

Technical Parameters

Model		Parameters	
Rated voltage(kV)		12	24
Rated current(A)		630, 1250, 1600, 2000, 2500, 3150	630, 1250, 1600, 2000, 2500
Rated short circuit breaking current(kA)		25, 31.5, 40	25, 31.5
Rated short -circuit switching current (peak)(kA)		63, 80, 100	63, 80
Rated peak tolerance current (kA)		63, 80, 100	63, 80
4S Tolerance current at rated short circuit(kA)		25, 31.5, 40	25, 31.5
Rated insulation level	Lightning shock tolerance voltage(kV)	95 (interphase, opposite) 110 (between fractures)	125 (interphase, opposite) 145 (between fractures)
	Power frequency tolerance voltage(1 min) (kV)	43 (interphase, opposite) 49 (between fractures)	65 (interphase, opposite) 79 (between fractures)
Rated short-circuit breaking current Number of breaks (times)		50	50
Mechanical life		30000	20000
Ingress protection		IP4X	

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KYN61-40.5
Armored removable AC
metal-enclosed swithgear



THXGN-12
metal-enclosed switchgear
(inflatable cabinet)

Product Introduction

KYN61-40.5 armored movable AC metal-enclosed switchgear is suitable for three-phase AC 50Hz,40.5kW single-bus and single bus segmented power systems, mainly used in power plants, substations, industrial and mining enterprises, and high-rise buildings. It is used to receive and distribute electric energy, control, protect and monitor the circuit, which meets the requirements of IEC60298, GB3906, DL404 and other standards, with completed “five-proof” function.

Technical Parameters

Model		Parameters	
Rated voltage (kV)		40.5	
Rated frequency(Hz)		50	
Rated current (A)		630、1250、1600、2000、2500、3150	
Rated insulation level	1min power frequency withstand voltage (RMS) (kV)	interface, opposite	Between fractures
		95	118
	Lightning impulse withstand voltage (Peak)(kV)	185	215
Rated short-circuit breaking current (kA)		25、31.5、40	
Rated short-circuit making current (peak value)(kA)		63、80、100	
Rated short-time withstand current (4s,RMS)(kA)		25、31.5、40	
Rated peak withstand current (kA)		63、80、100	
Ingress protection		Enclosure IP4X, compartment, circuit breaker room door open IP2X	

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Product Introduction

THXGN-12 series SF6 fully insulated ring main cabinet is suitable for power distribution devices with three-phase AC 50Hz and rated voltage of 12kV, which is widely used in industrial and civil cable ring network and power supply terminal. It is especially suitable for receiving and distributing electric energy in power systems such as small secondary distribution stations, switching stations, industrial and mining enterprises, urban residential quarters, airports, railways, tunnels, and high-rise buildings.

Technical parameters

Model	Parameter	load switch	Combination Electric appliance	Circuit breaker
Rated voltage(kV)		12	12	12
Rated frequency (Hz)		50	50	50
Rated current od main busbar (A)		630 1250	630	630 1250
Rated current (A)		630 1250	125	630 1250
Rated short-circuit breaking current (kA)			31.5	
Rated transfer current (A)			1700	
Thermally stable current (effective value)(kA)	Primary loop 4s	20		20/25/31.5
	Grounding switch 2s			
	Connect the loop with ground for 2s	17.3		17.4/21.75/27.4
Dynamic stablized current (peak) (kA)	The primary loop	50		50/63/80
	Grounding switch 2s			
	Ground connection loop	43.5		43.5/54.6/69.6
Rated short-circuit close current (peak)(kA)	Load switch			
	Grounding switch 2s	50		50/63/80
1min power frequency withstand voltage (kV)	To the ground and between	42	42	42
	The isolation of fracture	48	48	48
Thunderbolt shock voltage tolerance(kV)	To the groung and between	75	75	95
	The isolation of fracture	85	85	110

● Product continues to iterate, specifications may be updated without prior notice.

Product Introduction

The intelligent small switch station (outdoor ring network cabinet) adopts foreign advanced technology and integrates 12kV switchgear, circuit breaker, load switch, current and voltage transformer, 12kV electric PT, FTU, RTI,communication control terminal (CCU), 12kV metering and automatic meter reading, UPS power, supply and indicating instruments, into a movable, sealed and moisture-proof stainless steel box after installation and debugging to realize the integration and assembly of primary and secondary system in the urban distribution network. The modularization of the system shortens the construction period and greatly improves the reliability of the urban power grid operation.



XGW15-12
Outdoor intelligent small
opening and closing station

Product Introduction

The YBM pre-packaged box-type substation absorbs the advantages of three major factions: American box-type substation, European box-type substation and domestic box-type substation. It is suitable for national conditions and adopts new environmental protection materials, new processes and advanced components, high and low voltage automation technology: Among them, the high voltage (12kV) can meet the requirements of the power sector for the automation of the distribution network, and the low voltage (0.4kV) can meet the requirements of intelligent residential property management. This series of intelligent box-type substations is a complete set of intelligent power supply and distribution devices composed of high-voltage units, power transformers, low voltage units, metering units and intelligent systems. It can be used in urban buildings, residential quarters, municipal facilities, factories, mines, highways, docks, oil fields, temporary power consumption and other departments and places. The box-type substation completes the transformation and distribution of power.



**YBM pre-packed
box-type substation**

Technical Parameters

Model	Parameters
Rated voltage(kV)	12
Rated current (A)	630
Rated frequency(Hz)	50
Rated active load breaking current(A)	630
Rated closed-loop breaking current (A)	630
Rated cable charging breaking current (A)R	10
Rated short-circuit making current (peak value)(kA)	50
Rated short-circuit withstand current duration (main circuit) (S)R	4
Rated short-circuit withstand current duration (ground loop)(S)	2
Rated short-time withstand current (kA)R	20/4s
Rated peak withstand current(kA)	50
Rated short-time power frequency withstand voltage(kV)	42
Rated lightning impulse withstand voltage (kV)	75
Loop resistance (μΩ)	≤100

● Product continues to iterate, specifications may be updated without prior notice.

Technical Parameters

Model		Parameters
Rated voltage	High pressure side	12kV
	Low pressure side	0.4kV
Transformer rated capacity		315,400,630,800,1000,1250,1600, 2000,2500,3150kVA
Rated current	High pressure side	630,1250A
	Low pressure side	630,800,1250,1600,2000, 2500,3200,4000,5000,6300A
Rated frequency		50Hz
Rated short-time withstand current	High voltage switchgear12kV	20,25,31.5kA
	High voltage switchgear400V	50,80,100kA
Cabinet Ingress protection		IP54
Rated peak withstand current	High voltage switchgear12kV	50,63,80kA
	High voltage switchgear400V	105,176,250kA
Rated short-circuit making current 12kV		50kA
Rated noise (oil-immersed transformer)		≤45dB
Reactive power compensation		120~1000kVar
High voltage electrical insulation level	Rated voltage	12kV
	Lightning impulse withstand voltage	groung and interphase 75 Isolation fracture 85
	1min power frequency withstand voltage	groung and interphase 42 Isolation fracture 48
	Rated voltage	60≤Ui≤300 300≤ui≤660
Low voltage electrical insulation level		Power frequency withstand voltage (1min) 2000 2500

● Product continues to iterate, specifications may be updated without prior notice.

Low-voltage Complete Set

Product Introduction

MNS2.0 is a type tested assembled low-voltage switchgear (TTA) developed and designed by ABB, which complies with IEC 61439 and GB7251 standards. The installation and connection of the system are performed according to IEC364 and DIN VDE0105 standards. It is applicable to all places where electricity is generated, distributed and used.

The MNS 2.0 assembled low-voltage switchgear system has proven its worth after years of use in the global market. The whole system fully considers the future development space, in which it can avoid the risk of being eliminated with technological development.

The rack structure adopted by the MNS 2.0 system is highly flexible, and once the structure is assembled, the maintenance is not required. Different standard components can be installed in the cabinet to meet various usage requirements. The entire system including the electrical structure, adopts a combined design with optimized structure, which meets the requirements of various components and is suitable for different working environments to achieve the corresponding protection level.

Features

Advantages of MNS2.0 system compared with traditional products:

- Compact structure, saving the volume of the cabinet;
- The cabinet can be arranged back-to-back;
- Economical layout of distribution circuit;
- All components are selected in standard, convenient for designing;
- Standardization of the whole series;
- The cabinet can be designed with corresponding protection levels according to different requirements of work and environment;
- Different types of functional components can be freely installed in a cabinet, such as: fixed components and withdrawable components;
- Convenient equipment updates and improvement;
- High continuity and reliability of equipment operation;
- Personal safety of operators is guaranteed.

Technical Parameters

Model		Parameters
Rated insulation voltage	Ui	1000V/AC,3p
Rated operating voltage	Ue	400V/AV,3p
Rated impact tolerance voltage	Uimp	8kV
Over voltage level		III
Pollution levels		3
Rated frequency		To 60Hz
Main busbar		
Rated current		To 6300A
Rated peak tolerance current	Ie	To 220kA2
Rated short time toletance current	Ipk	To 100kA
The power distrbution busbar		
Rated current Ie	Ie	To 1200A (2000A)
Rated peak tolerance current	Ipk	To 1100kA (176kA)
Rated short time tolerance current	Icw	To 50kA (80kA)

● Product continues to iterate, specifications may be updated without prior notice.



MNS2.0
Low voltage switchgear
manufactured
under ABB license



MNS
MNS low voltage
withdrawable
switchgear



GCS
low voltage
withdrawable
switchgear

Product Introduction

MNS low-voltage drawable switchgear adopts advanced modularized profile combined assembly structure, which can be operated from the front or the back. It can be widely used in power plants, substations and large buildings, airports, hospitals, industrial and mining enterprises, subway projects, other low-voltage power supply and distribution systems. The maximum power distribution capacity is 2500KvA.

Features

- The main frame is composed of cold-rolled steel plate or C-shaped cladding aluminum-zinc plate, which can be operated from the front or the back;
- Each functional room of the device is isolated from each other, and the isolated room is divided into functional unit room, busbar room, and cable room, and the functions of each room are relatively independent;
- The horizontal main busbar is arranged in a flat way behind the cabinet to enhance the ability of the busbar to resist electric force and to enhance the main circuit of the device for high short-circuit strength capability. The horizontal main busbar can also be installed on the top of the cabinet;
- The drawer can be designed as a quarter unit and the drawer unit is provided with a mechanical interlocking device. And high-strength flame-retardant engineering plastic components are used to achieve high safety protection performance.

Technical Parameters

Model	Parameters
Standards	IEC61439、GB7251、JB/T9661
Rated insulation voltage of main circuit (V)	AC 660V、AC 690V
Rated operating voltage of main circuit (V)	AC 380V、AC 400V
Rated frequency (Hz)	50 or 60
Rated working current of horizontal main busbar(A)	400、630、800、1000、1250、1600、2000、2500、4000、5000、6300
Rated working current of vertical branch busbar (A)	100~2000
Rated short-term tolerance current of horizontal main busbar (KA)	30、50、80、100
Rated peak tolerance current of horizontal main busbar (KA)	63、105、176、225
Ingress protection	IP30、IP40

● Product continues to iterate, specifications may be updated without prior notice.

Product Introduction

GCS low-voltage drawable switchgear is a low-voltage power distribution cabinet jointly designed and developed by two departments with high technical performance indicators that meets the needs of the development of the power market. It can be widely used in power plants and high-rise buildings, hospitals, petroleum, chemical and other industrial and mining enterprises, subway engineering and other low-voltage power supply and distribution systems. The maximum power distribution capacity is 2500KVA.

Technical Parameters

Model	Parameters
Standards	IEC61439、GB7251、JB/T9661
Rated insulation voltage of main circuit (V)	AC 660V、AC 690V
Rated operating voltage of main circuit (V)	AC 380V、AC 400V
Rated frequency (Hz)	50 or 60
Rated working current of horizontal main busbar (A)	1600、2000、2500、3200、4000、5000、6300
Rated working current of vertical branch bus (A)	400~1300
Rated short-term tolerance current of horizontal main line (kA)	80、100
Rated peak tolerance current of horizontal main line (kA)	176、225
Ingress protection	IP30、IP40

● Product continues to iterate, specifications may be updated without prior notice.