





KYN 28-12 (GZS) removable metal-clad switchgear Enclosure

Summary

KYN 28-12 (GZS) removable metal-clad switchgear is one Medium voltage switchgear, which applies to three-phase 50HZ, rated voltage 12KV, working current reaches to 4000A of indoor power distribution equipment, mainly as a secondary substation by electric power plants, industrial and mining enterprises, power distribution and power systems, power transmission and high-voltage motor starters and other places for control, protection and monitoring.

Structure Description

Switchgear according to GB3906 and IEC298 armored metal-enclosed switchgear standard designed by the cabinet and the overall cabinet be composed of housing and withdrawable

(handcart) two parts, the cabinet made of high quality cold-rolled steel and high quality alu-

deposited zinc plate by precision CNC machining (some parts with high precision laser cut-

machine and special mold), double side process forming, connected together by high strength bolts, nuts, rivet nuts, steel rivets, cabinet low pressure chamber, circuit breakers chamber, bus room, cable room unit cell effectively separated, and each unit has a separate pressure relief channel, with good relief and ventilation, indoor another cable set 10x60mm main ground bus.

2. With fully assembled cabinet, compact structure, equipped with a variety of domestic and international mainstream vacuum circuit breaker, voltage transformers, surge arresters, the variable fuses, isolation in the home-handcart, all the same functionality handcart unit have a good interchangeability, easy operation and replacement.

Main characteristics

1.It has a simple ans effective "Five Anti" interlock to prevent misuse. 2.The cabinet can be used with ZN63A (VS1), VD4, ZN21, 3AI-I, VB2 and VEP vacuum circuit breaker, VC7 vacuum contactor, load switch and disconnecting switch so on.

3.It can be used with voltage transformer handcart, metering handcart, isolating handcart, station used earthing handcart, of which are with same function and interchangeable.

4. The cabinet can be installed against the wall. The maintenance can be done in the front of the cabinet. It can reduce the footprint.

5. The circuit breaker room and cable room can separately equipped with heater to prevent the condensation and corrosion.

6. The cable room is spacious, and it can be connected to many cables.

7. Switchgear enclosure protection rating reaches to IP4X, each compartment level of protection is IP2X.

Height	Width	Depth
2300	800	1500
2300	1000	1500







KYN28-24 type armored remove AC metal-enclosed cabinet

Summary

KYN28-24 type armored remove AC metal-enclosed cabinet is three-phase AC 50HZ, rated voltage 24kv indoor power distribution equipment. As power plants, substations, industrial& mining enterprises to accept and distribute of electric energy to control, protect and monitor, circuit, etc. Can also be used to control the place of frequent operation.

Structure Description

Switchgear are requested designed according to GB3906 and IEC298. The whole switchgear can be extracted from the cabinet and spare parts (trolley) two components. Cabinet structure are made of aluminum deposited zinc plate or galvanized plate bolted combination forming a metal partition separating the part of the circuit breaker room, main busbar room, cable room and relay control room, and all metal construction were grounded, each compartment of the main circuit system has a separate pressure release channel. In the cable compartment can be set to 40 × 6mm ground busbar.

Main characteristics

- 1. Simple and effective "Five Anti" lockout to prevent misuse;
- 2. Can be equipped with VS1, Vo4, 3AH vacuum contactors, etc.; 3. Can be equipped with voltage transformer handcart, isolating handcart, fuses, etc. Used, Used same use interchangeable;
- 4. The cabinet can be wall mounted, front cabinet maintenance, reduce floor space;
- 5. The circuit breaker compartment and cable compartment heater can be installed separately, to prevent condensation and corrosion;
- 6. Cable ample room space, can be connected to a plurality of cables;
- 7. shell protection grade IP4 ×, among compartment protection class IP2 ×;
- 8. The material can be galvanized sheet can be deposited aluminum and zinc plate produc-

Height	Width	Depth
2300	800	1800
2300	1000	1800







KYN61-40.5 Armor type ac metal-enclosed switchgear cabinet

Summary

KYN61-40.5 switchgear is three-phase AC 50HZ, rated voltage of 40 5KV indoor power distribution equipment.

As power plants, substations and industrial distribution of electric energy only, and has a circuit implementation of control, protection and monitoring functions.

Structure Description

Switchgear according G83906 and IEC298 standards and design. And can be removed from the cabinet as a whole unit (trolley) components.

Cabinet structure are made of aluminum deposited zinc plate or galvanized sheet assembled with bolt connection, separate circuit breaker switchgear room, bus room, cable room and instrument room. All metal components are grounded, each compartment of the main circuit systems have separate pressure release channel in the cable compartment can be set 10x60mm ground bus

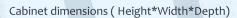
Main characteristics

- 1. The use of assembled cabinet structure, circuit breaker handcart floorstanding structure, small size;
- 2. Optional: The company vacuum breaker VW1-40.5, Xiamen Huadian vacuum breaker VEP-40.5, similar circuit breakers are interchangeable;
- 3. Equipped with special transport vehicles can lift, transport vehicles and cabinet accurate positioning, locking and reliable;
- 4, the main switch, handcart, door interlock switch between mandatory mechanical locking methods are used to meet the "Five Anti" interlock function;
- 5, all operations can be carried out at the door closed state, to protect the safety of the operator
- 6, cable ample room space, can be connected to multiple cables, and overhead outlet
- 7, shell protection grade IP3X, handcart room door open between the various compartments protection class IP2X;
- 8, the material can be galvanized sheet can be deposited aluminum zinc plate production.

Height	Width	Depth
2400	1200	2600
2600	1400	2800



XGN66-12 Box-type Fixed Switchgear Cubiclesure



2300mm	900mm	900mm
	1000mm	



XGN66-12 Box-type Fixed Switchgear Cubicle

Summary

XGN66-12 switchgear is suitable for single busbar systems with power levels from 3 to 12kV three-phase AC 50Hz to accept and distribute power. It is new generation small power equipment used in cities and rural areas, which is distinguished with features as high grade, small volume, reasonable structure, safety and dependability, simple in running and operation, and accommodates to the demand of power market, reform of city and rural power grids, and packaged substations.

Structure Description

The switchgear is of box-type metal-enclosed fixed structure and the cubicle consists of C profiles and G profiles assembled by several connecting pieces. It is divided into four compartments, namely busbar compartment, CB compartment, metering compartment and cable compartment. The parts processing shall be made by CNC punching machine, CNC bending machine and sophisticated machines provided in CNC processing center, ensuring high precision of form, position and dimension, fast and accurate making, flexible for combination of different options, which can meet different demands from customers.

Main features

- 1. The cubicle is of assembled structure, no welding, high mechanical strength and artistic appearance;
- 2. The rear upper part is for GN30-12 rotary disconnect switch and lower part for GN19-12C disconnect switch. The mechanical interlock device operated as per procedures can provide reliable safety protection for the operation personnel and equipment;
- 3. The main switch adopted is of monoblock type, options such as ZN63-12 (VS1-12) and VD4-12;
- 4. Compulsory mechanical locking method is employed in the interlocks among main switches, disconnectors and cubicle door to meet the "five-proof" interlock function, enjoying random combination with ring main unit.

Height	Widt	:h	Depth
2300	900	1000	1000
2300	900	1000	1000







XGN2-12 Box-type Fixed Switchgear cabinet

Summary

XGN2-12 Box-type fixed metal-enclosed box switchgear cabinet is developed and designed of high voltage switchgear assembly by us. The cubicle framework is made of C profiles and G profiles with pleasing outline, which facilitates production control and shortens production period.

XGN2-12 switchgear is a protective fixed metal-enclosed box switchgear, which can widely used in high voltage motor with moving, switching operation and other occasions. It can be frequent operation, no explosions, fires and other dangerous.

Main characteristics

This switchgear is metal-enclosed box switchgear, the cubicle framework is made of C profiles and G profiles, inside cubicle is use metal plates divided into circuit breaker room, busbar room, cable room and relay room. And user can observe the operation of the main components of the cabinet through the observation window and the lights on the facade. According to the cabinet layout, the front upper part is relay room, inside room can be installed relay, the door can be installed un-signal realy, indicating instrument, signal lamp, switches can be installed in the operating room. The back upper part is busbar room, the back lower part is cable room which can be easily wiring. The front part is circuit breaker room, which can be convenient for switchgear maintenance. Protection class IP2X

1.The cabinet does not use any form of insulation partition of phase or relative. The inside is air insulated and the distance of air insulation of phase to phase and phase to earth shall be greater than 125mm. Supporting insulators (or bushings) of greater creepage are employed to make the switchgear have greater insulation level and stronger insulation stability;

2. It using rotary isolating switch, this isolating switch will rotate conductor to earth on segmented position, that is to form a "metal separation"(two docking interface) between the charged body (main bus) and the isolated conductors (like circuit breakers). At this time, the charged body can only discharge phase to phase or to earth, without affecting the isolation conductor, thus ensuring the safety of the maintenance personnel.

conductor, thus ensuring the safety of the maintenance personnel.
3. The wiring terminals of cable shall have a distance of 600-800mm from the ground as to facilitate the making, mounting, monitoring and maintaining of the cable. Tower rubber gasket is used to seal between cable compartment and cable chute as to prevent dampness or small animals from entering the cubicle via the chute.

4. Compulsory mechanical locking method is employed in the interlocks among main switches, disconnectors, earthing switches and cubicle door to meet the "five-proof" interlock function. During the design of driven operation of disconnectors and main switches, mechanical interlock device is also considered. The device is operated with easy structure and reliable action.

Cabinet outline dimensions (mm) (not including door)

Height	Width	Depth
2650	1100	1200
2650	1200	1200

Note: If need the overhead inlet and outlet, need additional 400 deep attached cabinet.







HXGN-12 SF6 Ring Main Unit Switchgear Enclosure

Summary

The enclosure of HXGN-12 SF6 Ring Main Unit Switchgear adopts aluminum zinc coated sheet steel processed by CNC machine for assembling. It has degree of protection IP3X and reliable mechanical interlock as well as anti-maloperation function.

Main characteristics

- 1. The load break switch used is a separate unit, inside filled with SF6 gas as insulation medium, with distinguished features of long service life, high parameters, free of pollution and little maintenance;
- 2. The enclosure consists of premium Aluminum zinc coated sheet steel, which makes it anti-corrosion, anti-oxidation, more artistic and novel in structure;
- 3. Spring charging operation, three-phase free trip, five-proof interlock and operation mechanism as a whole, safe and reliable linkage;
- 4. The ring main unit can easily form ring network power supply unit or other forms of wiring, and enjoy great extendibility;
- 5. SF6 load break switch is used with safe and reliable comprehensive properties, free of oil and poison as well as risks of explosion or fire disasters.
- 6. The design would be used as a combined cabinet along with KYN28-12(GZSI) central-installed switchgear.

Н	eight	Width	Depth
1600	1800	375	840
1600	1800	420	840
1600	1800	500	840
1600	1800	750	840



高压成舊柜仰系列

XGN15-12 Box-type fixed metal-enclosed switchgear Enclosure



2200mm	650mm	900mm
THE SE	900mm	







HXGN15-12 High Voltage Ring Main Unit

Summary

HXGN15-12 outdoor metal-clad ring main unit switchgear (intelligent type) applies to three phase AC system with rated voltage 12kV, rated frequency 50Hz, rated current 630A and for ring network electricity supply and radiation terminal power supply that used as cable line sectionalizing, branch connection. It is equipped with SF6 gas insulating multiloop power unit and feeder terminal device FTU that imported from Korea. It has functions of remote signaling, telemetry, remote control and fault current detection. This device is mainly used as distribution automation system for city power supply load center and cable supply.

Main Characteristics

- 1. The framework of cabinet is assembly type. It is stable and reliable with convenient assem-
- bly. It could be able to form ring net unit and other connection modes.

 2.It is with small size, light weight, small footprint, and easy installation.

 3.The ring main unit has barbar room, switch room, control room that separately divided and in secure state. The cabinet and all components has reliable earthing connection to make sure the personal safety of operating and maintenance workers.
- 4. The ring main unit could be equipped with FN12-12D, FN25-12D load switch.
- 5. The mechanical interlock is advanced and reliable, which could satisfy the requirements of five-anti protection.

Height	Width	Depth
2000	700	900
2000	900	900



GCK New Type LV Withdrawable Switchgear Enclosure









2200mm	600mm	800/1000mm
	800mm	800/1000mm
	1000mm	800/1000mm



GCK Withdrawable Switchgear Enclosure

Summary

GCK series low voltage withdrawable switchgear equipment applies to the systems of AC three phase four wires, three phase five wires with rated working voltage 380-660V that uses in electric system as electric, feed, reactive power compensation, power measurement, lightning and electric motor centralizing control in power station, substation, industrial and mining enterprises and tall buildings. It conforms to national standard GB7251.1 < Low Voltage Switchgear Equipment and Control Equipment>, JB/T9661 < Low Voltage Withdrawable Switchgear Equipment> and international standard IEC439.

Structure Description

The cabinet is assembly combination structure. The framework is assembled with KB section bar (C section bar) or KS section bar (8MF section bar). Horizontal bus bar is placed on the top of the cabinet. The top cap would be opened, and the cabinet is equipped with back door. It adopts rear outlet, which will make installation, maintenance more convenient. The protection level of cabinet is IP3X-4X. The drawer operates by opening door or with door. The drawer adopts dial type two position, dial type three position operating mechanism and auger-type driving mechanism by opening operation. The drawer adopts CXJG operating mechanism. The one time plug adopts the new type of fixed door mode, which is with a higher reliability. The rated current of unit loop is under 600A and below, among of which the biggest current of 1/2 unit drawer could reach to 100A.

Height	Width	Depth
2200	600	800 1000
2200	800	800 1000
2200	1000	800 1000



低压成管柜体系列

GCS Improved Version Withdrawable Switchgear Equipment Enclosure



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2200mm	600mm	800/1000mm
	800mm	800/1000mm
Manager and the second	1000mm	800/1000mm



GCS Improved Version Withdrawable Switchgear Enclosure

Summary

GCS type is a improved version of the standard type GCS, which applies to electricity, transmission, power distribution, power conversion and the control of power consumption equipment. It conforms to national standard GB7251.1 < Low Voltage Switchgear Equipment and Control Equipment>, JB/T9661 < Low Voltage Withdrawable Switchgear Equipment> and international standard IEC439.

Structure Description

The main framework of cabinet is assembled by KS section bar, standard module E=20mm. The cabinet is electrostatic spaying after the pickling and phosphating. The inside baffle plate and drawer is processed with galvanizing passivation process. All isolation rooms are separated from each other. The separation room is divided into function unit room, busbar room and cable room. The function of each room is relatively independent. The vertical channel and fist, secondary plug are suitable for GCK cabinets. Horizontal bus bar is placed on the top of the cabinet. The top cap would be opened, adopts rear outlet or side outlet. It will satisfy the need of safety, reliability and easy installation, examination, maintenance by reducing the production cost while maintain the same working function and appearance. The protection level of the cabinet is IP3X-4X.

Drawer types

The layers of drawer in module height of 80mm has series of 160/2, 160, 240, 320, 400, 480. The effective height of drawer installation unit is 1760mm. The layers of drawer in module height of 100mm has series of 200/2, 200, 400, 600. The effective height of drawer installation unit is 1800mm. The unit loop rated current 600A and below, among of which the biggest current of 1/2 unit drawer reaches to 100A. The drawer with same function has good interchangeability. The inlet and outlet of the drawer adopts different sizes plug in line with the sizes of current. The switch of 1/2 unit drawer and the cable unit adopts DFZJD type 1/2 branch transferring unit. The drawer unit has mechanical interlock device and secondary plug with large quantity.

Height	Width		Depth	
2200	600	600	800	1000
2200	800	600	800	1000
2200	1000	600	800	1000



MNS

The modified draw out type switch cabinet put oneself in another's position



2200mm	600mm	800/1000mm
	800mm	800/1000mm
	1000mm	800/1000mm



MNS The modified draw out type switch cabinet put oneself in another's position

Summary

The modified MNS low-voltage complete switch equipment improve the development on the basis of the standard. Apply to the system of alternating current 50(60)Hz rated working voltage 66ov all below, used for power generation transmission power distribution electrical energy conversion and power consumption equipment control. Meet the national standards GB7251.1<Low-voltage complete switch equipment and control equipment> JB/T9661<Low-voltage drawer-type switch equipment> and national standard IEC439.

Structure Description

The basic frame is type C modular structure, all frame structure static, or coated aluminum zinc plate galvanized processing. By tapping screw 8.8 hexagonal screw fastening connection each other into a basic framework, change according to the plan again, combined with the corresponding door, sealing plate, diaphragm, mounting bracket, and bus, functional units and other components, assembled into a complete device, parts plant size, the size of the compartment, a modular (Modulus of the unit E=25mm). Vertical channel and once whice connector change into the form of product as like GCK ark, horizontal bus can also be placed the ark, the lid can be opened, it can be used in the way of after line or side line. While maintaining the original work performance and appearance, achieve a safe and reliable, installation, testing, maintenance is convenient and reduce the production cost. Cabinet put oneself in another's protection grade IP3X-4X.

Drawer types

Drawer Type: four standard sizes, all are based on height 8E (200MM), they were 8E / 4,8E / 2,8E, 16E and 24E.

8E / 4: assembled four drawer unit in 8E (200MM) height space

8E / 2: assembled two drawer unit in 8E (200MM) height space 8E: assembled one drawer unit in 8E (200MM) height space

16E: assembled one drawer unit in 16E (400MM) height space 24E: assembled one drawer unit in 24E (600MM) height space

Unit circuit rated current 600A and below which half of the unit drawer maximum current up to 100A. Drawer mounting unit effective height 1800MM. The same functional unit of the drawer has a good interchangeability. Outlet and inlet line of drawer according to current size with different specifications after let type of connectors. Transfer current sub-file of 1/2 unit drawer and cable compartment adopt DFZJD type transfer unit. Drawer unit with mechanical interlock devices. Drawer unit has a sufficient number of secondary connectors.

Height	Width	Depth
2200	600	800 1000
2200	800	800 1000
2200	1000	800 1000