Product Overview

The KYN28-12 armored withdrawable AC metal enclosed switchgear is suitable for 3.6-12kV three-phase AC 50Hz power grids, as a means of receiving and distributing electrical energy, and for controlling, monitoring, and protecting circuits. Can be used for single busbar, single busbar segmented systems, or dual busbar systems. The switchgear complies with IEC298 "AC metal enclosed switches with rated voltage above 1kV and below 52kV" Equipment and Control Equipment ", IEC694" Common Terms for High Voltage Switchgear and Control Equipment ", China's" GB39063-35kV AC Metal Enclosed Switchgear "and DIA04" Ordering Conditions for Indoor AC High Voltage Switchgear ", Germany DIN The requirements of standards such as VDE0670 "AC switchgear with rated voltage above 1kV". And it has complete and reliable anti misoperation functions

Product Model Description

产品型号说明

K Y N 28 - 12 / □ □ □ □

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

①	铠装移开式金属封闭开关设备
②	移开式
③	使用条件：（户内）
④	设计序号
⑤	额定电压 (kV)
⑥	一次方案号
⑦	操作机构特征代号，D：电磁；T 弹簧
⑧	额定电流 (A)
⑨	额定短路开断电流 (kA)

Product Features

The KYN28-12 armored withdrawable AC metal enclosed switchgear (hereinafter referred to as the switchgear) is a new product designed and developed by our company based on absorbing advanced domestic manufacturing technology. It can replace various old types of metal enclosed switchgear, such as KYN1-12, JYN2-12 and other series products. Its products have the following obvious advantages:

The outer shell of the product is completely assembled with bolts, which has high mechanical strength and effectively ensures the neatness and beauty of the product. The cabinet door is coated with spray paint, which has strong impact resistance and corrosion resistance. The product casing has a protection level of IP4X. (Can be changed to iron plate according to customer needs)

2. The switch of this product can be equipped with ABB's VD4 vacuum circuit breaker, C3 series fixed load switch, and can also be configured with various domestic series vacuum circuit breakers (such as VS1, VH1, VK, ZN28) to replace similar foreign products

3. Regardless of the type of circuit breaker used, the air insulation distance of the bare conductor can be guaranteed to be greater than 125mm, and the composite insulation can be greater than 60mm. Their circuit breakers have the unique advantages of long lifespan, minimal maintenance, and small size

Usage conditions

Environmental temperature: upper limit+40 ℃, lower limit -10 ℃

Relative humidity: daily average not exceeding 95%, monthly average not exceeding 90%

Altitude: not exceeding 1000m

Shock resistance: not exceeding 8 degrees

Places without fire, explosion hazards, severe pollution, chemical corrosion, and severe vibration

Note: If ordering this product exceeds the above conditions, please consult with our company

Execution standard

GB 3906 3-35KV AC Metal Enclosed Switchgear GB/T11022 Common Technical Requirements for High Voltage Switchgear and Control Equipment Standards DL/T404 Technical Conditions for Ordering Indoor AC High Voltage Switches

技术参数

开关设备技术参数　　表 1

项目		单位	数据
额定电压		kV	12
主母线额定电流		Hz	50
额定频率		A	630,1250，1600,2000,2500,3150
额定电流		A	630,1250，1600,2000,2500,3150
地接回路额定短时耐受电流（2S）		kA	13.9,17.4,21.8,27.4,34.8
主回路额定短时耐受电流 (4S)		kA	16,20,25,31.5,40
额定峰值耐受电流 (峰值)		kA	40,50,63,80,100
额定短路开断电流		kA	25,31.5,40
额定绝缘水平	1min 工频耐受电压	kV	相间及地：42；断口：48
	雷电冲击耐受电压	kV	相间及地：75；断口：48
防护等级			外壳为 IP4X

Structural characteristics of switchgear

The switchgear shall be designed according to the armored metal enclosed switchgear in GB3906-91. Figure 1: The switchgear consists of two main parts: a fixed cabinet body and a detachable component (referred to as a handcart). The outer shell of the cabinet body and the partitions of each functional unit are connected by bolts. The protection level of the switchgear enclosure is IP4X, and the protection level when the circuit breaker room door is opened is IP2X. The switchgear can be equipped with a vacuum circuit breaker handcart or a fixed load switch. It has overhead incoming (outgoing) lines, cable outgoing lines, and other functional solutions. The switchgear can be installed in a double cabinet arrangement, that is, installed in a back-to-back or face-to-face double row arrangement

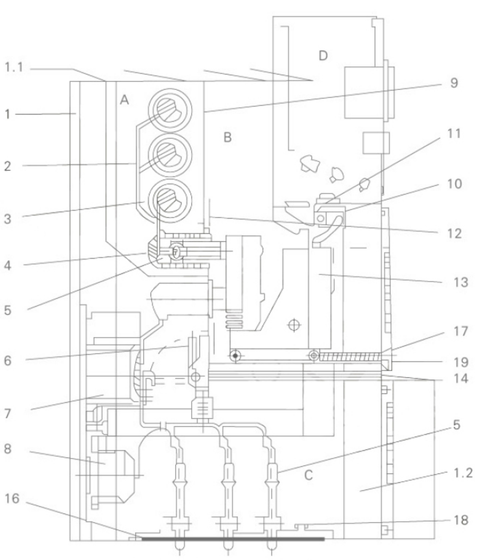
Installation of switchgear

1. According to the engineering requirements and drawings, transport the switchgear to a specific location. If a row of longer switchgear is arranged (such as more than 10 units), the cabinet assembly work should start from the middle part
2. Use specific transportation tools such as cranes or forklifts, and it is strictly prohibited to use roller pry bars
3. Remove the circuit breaker handcart from the switchgear and store it properly elsewhere
4. Loosen the fixing bolts in front of the busbar compartment and remove the vertical partition 9
5. Loosen the fixing bolts of the horizontal partition 19 under the circuit breaker compartment and remove the horizontal partition
6. Release and remove the bottom plate 16
7. Remove cover plates 1 and 2 from the control cable tray on the left side of the switchgear; Remove the cover plate of the right front control cable tray at the same time
8. Install switchgear one by one on the basis, including both horizontal and vertical aspects. The unevenness of switchgear installation shall not exceed 2mm

After the switchgear is fully assembled (spliced), it can be connected to the foundation channel steel with anchor screws or welded firmly to the foundation channel steel with electric welding

External dimensions of switchgear

开关柜外形尺寸



图一：KYN28-12 馈线开关柜基本结构部面图

A. 母线隔室
B. 断路器隔室
C. 电缆隔室
D. 仪表隔室
1. 外壳
1.1 压力释放板
1.2 控制电缆盖板
2. 分支母线
3. 母线
4. 静触头装置
5. 弹簧触头
6. 接地闸刀
7. 电流互感器
8. 电压互感器
9. 装卸式隔板
10. 二次插头
11. 辅助开关
12. 活动帘板
13. 可抽出式手车
14. 接地闸刀操作机构
15. 电缆密封终端
16. 底板
17. 丝杆机构
18. 接地主母线
19. 装卸式水平隔板

Ordering Notice

The following technical information should be provided when placing an order:

Main circuit scheme diagram number, purpose and main line system diagram, distribution room layout plan and arrangement configuration diagram, etc

Requirements for control, measurement, and protection functions of switchgear, as well as requirements for other locking and automatic devices

If a busbar bridge connection is required between switchgear or incoming cabinets, specific requirements such as the rated current carrying capacity of the busbar bridge, the span of the busbar bridge, and the height above ground should be provided

The model, specifications, and quantity of the main electrical components inside the switchgear

When the switchgear is used in special environmental conditions, detailed instructions should be provided when ordering

Special requirements to be resolved through negotiation with the manufacturer