

Complete Set Company - Power Control System

>> High Voltage Power Box

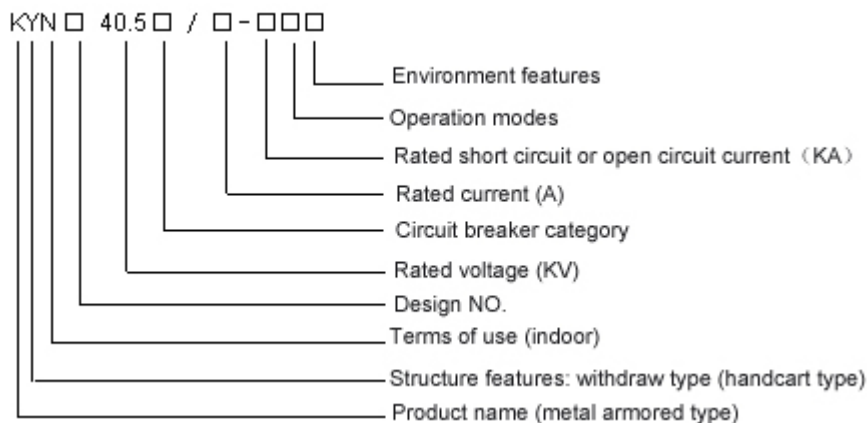


KYN□-40.5(Z)Armored Withdraw-type AC Metal Closed Switch Equipment

About the product:

KYN□ -40.5(Z)Armored Withdraw-type AC Metal Closed Switch Equipment applied to three-phase AC 50Hz、 40.5kV power system. It is mainly used in power transformation and distribution of power plant, transformer substation, mining enterprises, railway transportation and high-rise building as the receiver and distributor of the power. It also used in the control, protection and monitoring of the circuit which meets the standards like IEC60298、 GB3906、 DL-T404, etc. and has “five- defenses” function. KYN□ -40.5(Z)Armored Withdraw-type AC Metal Closed Power Box (hereinafter refers to the power box) is an indoor power distribution equipment of three-phase AC 50H and 40.5kV rated voltage. It is mainly used in power transformation and distribution of power plant, transformer substation and mining enterprises as the receiver and distributor of the power to protect, control and monitor the circuit. It can be applied in many other places. This power box meets the standard of GB/T11022、 GB3906and DL/T404.

Model Contents



Work and Environment Conditions

The maximum temperature is below +40 and the minimum temperature is above -10 . The average temperature in 24 hours is below +35 .

The height should below 2000 meters above sea level.

Relative temperature: daily average value should below 95%, monthly average value should below 90%.

Intensity of earthquake: Not exceed 8 degree.

Steam pressure: daily average value should below 2.2KPa; monthly average value should below 1.8KPa. No fire or explosion hazards.

Dangerous, seriously polluted, chemical corrosion and fiercely vibrate places are excluded.

Structure Features

The structure of the power box is composed by the cabinet and handcart two parts.

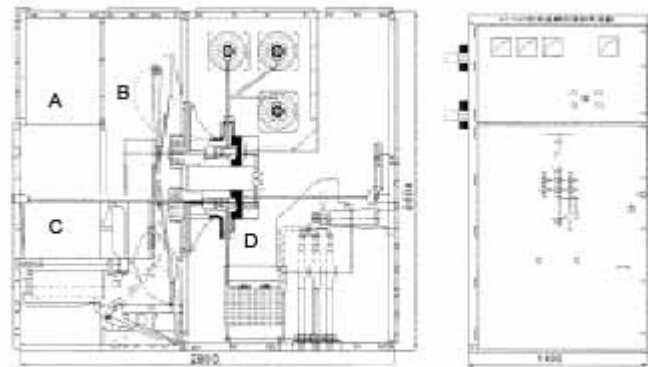
Inside the cabinet there are new full-insulation vacuum circuit breakers, imported SF6 circuit breakers and VD4 series vacuum circuit breakers of ABB Company. The cabinet body adopts assembly structure which enhances the assembly precision of handcart and the cabinet body. It has a beautiful outlook and can be produced, assembled and delivered rapidly. The cabinet body is made of the imported aluminum -zinc curved plate and assembled with the bolt.

Typical programmes can be divided into four parts on functional characteristics: relay meter room, handcart room, cable room and generatrix room. Each part is separated by a ground metal board so it can prevent the electric arc from extension. Thus, the potential breakdowns can be restricted in a small scope. Except relay meter room, other rooms have independent decompression channel. If a certain part is replacing a component or repairing, we just need to cut the power off of the broken component not the whole cabinet and the maintenance person can enter the room safely. The protection rank of its shell is IP3X and between each separate room is IP2X.

Technical Parameters:

NO.	Name	Units	Value
1	rated voltage	KV	40.5
2	rated current	A	1250 1600 2000
3	rated frequency	Hz	50
4	rated short-term open/break current	KA	20 25 31.5
5	rated close current (peak value)	KA	50 63 80
6	rated working current tolerance	KV	95/1min
7	rated lightning impact voltage tolerance	KV	185
8	rated short circuit duration time	s	4
9	protection rank		IP3X

The structure of the power



box A Relay Meter Room B Generatrix Room C Circuit-Breaker Room D Cables Room

Interlock Devices of the Power Box

Only when the circuit-breaker is in the open switch state, the handcart can shift from the test/isolation position to the working position and vice versa.

Only when the circuit-breaker handcart is at the test/isolation position, the ground switch can be closed.

When the ground switch is closed, the handcart cannot shift from the test/isolation position to the working position.

When the handcart is at the working position, the secondary plug is locked and cannot be pulled out. Only when the handcart is at the test position and the secondary plug has been pulled out, the handcar can be moved out of the power box.

Only when the ground switch is closed, the backdoor of the power box can be opened.

Only if the circuit-breaker handcart is at the test/working position, the circuit-breaker can be closed.

Order Information

Users should provide the following material when make an order:

1. Single loop circuit major programme code, Single generatrix diagram, arrangement chart and layout-plans.
2. Double loop circuit schematic diagram and Terminal arrangement diagram.
3. The model, specification and quantity of the components of the power box.
4. Generatrix material and specifications if not provided shall be offered according to the factory standards.
5. Name and quantity of spare parts.
6. Any other requirements, please consult with us.