

Power outage operation of 10kv high voltage switch cabinet

Can high-voltage switchgear improve the reliability and safety of power supply?

In order to improve the reliability and safety of power supply and reduce the failure rate of switchgear, this paper designs a novel high-voltage switchgear which is reliable and safe.

What is the model of high-voltage switchgear?

Overall model of new high-voltage switchgear. The busbars in the switchgear are tortuous and it is the focus of current-carrying loads so that its grid should be finely divided. While the shell of the switchgear has a large volume and does not require excessive fine division.

What are the problems of switchgear operation?

The main problems of the existing switchgear operation are as follows: When running large currents, the temperature rise in the switchgear generally exceeds the national standard; partial discharge and breakdown due to insulation damage; long daily maintenance time and power outages for maintenance , , , .

What is the maximum temperature rise of a switchgear?

The heat field results reveal that even in the condition of passing through current with long operation time, the maximum temperature rise of the switchgear is 55.9 K and 48.7 K respectively, which is lower than the standard design requirement 70 K.

Does the insulation and temperature rise design of switchgear meet national standards?

In order to check whether the insulation and temperature rise design of the switchgear meets the requirements of national standards, a simulation model of electric field and temperature field is established. According to the results, optimized design of insulation and temperature rise was carried out. 2. New switchgear design

How to improve the insulation of a switchgear?

It is determined that the connection and the corner is most likely to occur insulation problem, which the electric field is 1.23 $\times 10^6$ V/m and 1.72 $\times 10^5$ V/m respectively. Polishing connection and the corner is a good way to improve the insulation of the new switchgear.

these power equipment, improve the safety of equipment operation and significantly improve the economic benefits [1] [2]. 10 kV switchgear plays an important role in the power grid, but its ...

1 ?????????,?? ?? 2 ?????????????,?? ?? ????:2020?11?12?;????:2020?12?1?;????:2020?12?8?. ?? 10 kV????????,????????,?????? ...

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voltage divider, pulse current detection coil, oscilloscope, protection resistor, high-voltage switch cabinet, analog partial discharge model and signal acquisition device. 2.1 The construction of ...

4.3 Low voltage isolation switch. Low-voltage isolating switch, suitable for AC 50Hz, rated voltage 380V or DC 220V, rated current 200A~3000A, mainly used in the control circuit of power ...

Customized high voltage isolation switch 11kv 15kv 10kv 46×32×12cm. Mode: DNGW10. Rated Current:400A/630A. ... plays a safety role in the power grid s task is to open and close ...

High voltage cabinet is an important electrical equipment that plays the role of on-off, control or protection in power generation, transmission, distribution, power conversion and ...

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In order to enhance the security and reliability of high-voltage switch cabinet operation, the diagnosis of internal discharge defects in high-voltage switch cabinet equipment ...

This medium-voltage cable distribution cabinet is used in power distribution systems whose alternating current is 50Hz with rated voltage of 380V. It is a support component for network ...

High voltage switchgear 10kV central incoming and outgoing line ring network cabinet high and low voltage complete equipment OVERVIEW It is suitable for the three-phase AC 50 Hz, rated ...

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