

KYN28A-24

型铠装移开式交流金属封闭开关柜 Metal-clad Movable AC Switchgear



产品概述

KYN28A-24(Z)型铠装移开式交流金属开关设备(以下简称“开关设备”),主要用于额定电压为24kV、额定频率为50~60Hz的电力系统中,主要对发电厂、中小型发电机送电、工矿企业业配电以及电业系统的二次变电所的受电、送电及大型高压电动机起动等,实行控制保护、监测之用。

Product Summary

Metal-clad movable AC switchgear KYN28A-24(Switchgear) is designed for the complete power system of 3 phases, 50~60Hz, and rated voltage for 24kV, which provided for accepting & distributing power, provide controlling, protecting, and monitoring as well. This kind of switchgear is mostly suitable in power plants, substations, mining enterprises and high buildings.

环境条件

1. 环境温度: 不高于 +40℃, 不低于 -15℃。
且 24h 内平均温度不超过 +35℃。
2. 海拔高度: 海拔不超过 1000m。
3. 相对湿度: 日平均值不超过 95%, 月平均值不超过 90%。
4. 地震烈度: 不超过 8 度。
5. 无火灾、爆炸危险、严重污秽、化学腐蚀及剧烈震动的场所。

Environmental Conditions

1. Ambient Temperature: No more than +40℃, No less than -15℃. Average temperature no more than +35℃ within 24 hours.
2. Altitude: No more than 1000m.
3. Relative Humidity: Average humidity no more than 95% within one day, Average humidity no more than 90% within one month.
4. Earthquake Intensity: No more than 8 degrees.
5. No fire, explosion danger, serious dirt, chemical corrosion and violent vibration for product installed place.

产品特点

1. 开关柜为我司自行开发的 24kV 新型空气绝缘中置移开式金属封闭开关设备,符合 GB3906、DL/T404、IEC60947 等相关标准。

Product Features

1. This new type of air isolated movable metal switchgear is indigenous reactor design, according with the relative standards of GB3906, DL/T404, IEC60947.

2. 开关柜具备周全的防止误操作措施,安装有可靠的机械闭锁,完全满足“五防”要求。
3. 开关柜采用电场均压,屏蔽设计,绝缘可靠,满足全工况要求。
4. 开关柜壳体由敷铝锌钢板经双层折弯,完全螺拼接而成,具有较强的抗腐蚀性、足够的机械强度及优良的接地连续性。
5. 完全满足铠装柜的要求,接地且完全金属封闭的三个高压隔室,满足隔室间 IP2X 的防护要求,将意外事故限制在最小范围。
6. 断路器室、母线室及电缆室均设有泄压装置,若发生内部电弧故障时,可以从泄压通道释放压力和排泄气体,确保操作人员安全。
7. 分支母线由静触头盒以及通过主母线由穿墙套管支撑,无需额外的支撑绝缘子,减少了隐蔽的主母线对地故障点,提高了开关柜的可靠性。
8. 手车导轨两侧设有接地静触头,手车的两侧装有接地动触头,在试验与工作位置以及两位置之间的任一位置手车都能可靠接地。

2. This type of switchgear can provide with considerate maloperating measures, and equipped with reliable mechanical block, in order to meet the function of "five-prevent".
3. This type of switchgear use the design of uniform electric field, shield, can meet all working conditions.
4. This type of switchgear is made of galvanized aluminum board, cabinet use multiple bending technology, completely assemble with screws, strong corrosion resistance, enough mechanical strength and well earthed continuity.
5. Complete satisfy the switchgear, three HV cabinets well earthed and with metal enclosure, the protect degree of the panel can be IP2X, in void of minimizing accidents.
6. Breaker cabinet, busbar cabinet and cable cabinet are equipped with pressure relief device, from which it can release pressure and discharge gas in case of internal arc duration, so that it can ensure staff safety.
7. Branch busbar is supported by static contactor and the wall bushing which is across the main busbar, no need for extra supporting insulator, cut down the fault points of cover main busbar earthed, so as to increase the reliability of switchgear.
8. Each side of trolley rail equipped with earthed static contactors, each side of trolley equipped with earthed dynamic contactors, either position of trolley can be reliable earthed between testing and (or) operating position.

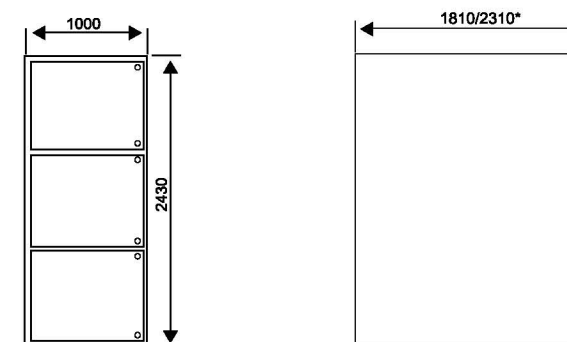
技术参数

Technical Parameters

序号 Sr	名称 Content	单位 Unit	数值 Value	
1	额定电压 Rated Voltage	kV	24	
2	额定电流 Rated Current	A	630/1250/1600/2000/2500	
3	额定频率 Rated Frequency	Hz	50/60	
4	1min 工频耐受电压 Frequency Withstand Voltage in 1min	级间、对地 Phase, Earthed	kV	65
		隔离断口 Isolated Fracture	kV	79
5	雷电冲击耐受电压(峰值) Lightning Impulse Withstand Voltage(Peak)	级间、对地 Phase, Earthed	kV	125
		隔离断口 Isolated Fracture	kV	145
6	主母线额定电流 Main Busbar Rated Current	A	630/1250/1600/2000/2500	
7	分支母线额定电流 Branch Busbar Rated Current	A	630/1250/1600/2000/2500	
8	额定短路开断电流 Rated Short-circuit Breaking Current	kA	20/25/31.5	
9	额定短时耐受电流(4s) Rated Short-time Withstand Current(4s)	kA	20/25/31.5	
10	额定峰值耐受电流 Rated Peak Withstand Current	kA	50/63/80	
11	额定短路关合电流 Rated Short-circuit Current	kA	50/63/80	
12	1min 辅助回路工频耐受电压 Aux. circuit Frequency Withstand Voltage in 1min	V	2000	
13	防护等级 Protect Degree	IP	IP4X(断路器门或隔室间打开为 IP2X) IP4X (IP2X when breaker door or chamber is opened)	
14	辅助控制回路额定电压 Rated Voltage of Aux. control Circuit	V	交流或直流 110/220 AC 110 / DC 220	

开关柜结构尺寸示意图

Structure Dimension and Sketch



电缆下进出线为 1810mm, 架空进出线为 2310mm。
Cable bottom incoming/outgoing: 1810mm;
Cable trolley incoming/outgoing: 2310mm.