

一、概述 General Description:

KYN61-40.5 (Z) 型铠装移开式交流金属封闭开关柜系三相交流 50/60Hz、额定电压 40.5kV 的新型户内成套配电装置。作为发电厂、变电站及工矿企业接受和分配电能之用，对电路起到控制、保护和检测等功能，还可用于频繁操作的场所。本开关柜符合 IEC-298、GB3906-1991、DL404-1997 等标准。

KYN61-40.5(Z) withdrawal-out metal-clad enclosed AC cubicle is three-phase AC 50Hz indoor power distribution equipment with the rated voltage of 40.5kV. It is used for power reception and distribution in the power station, substation, mining and enterprises for control, protection and check the circuits. It can be used in the fields where it is operated frequently. It conforms to IEC-298, GB3906-1991, and DL404-1997 standards.



主要结构特点:

1. 柜体结构采用组装式，断路器采用手车落地式结构；
2. 配用全新型复合绝缘真空断路器，并具有互换性好，更换简单的特点；
3. 手车架中装有丝杆螺母推进机构，可轻松移动手车，并防止误操作而损坏推进机构；
4. 所有的操作均在关闭状态下进行；
5. 主开关、手车、开关柜之间的联锁均采用强制性机械闭锁方式，满足“五防”功能；
6. 电缆室空间充裕、可连接多根电缆；
7. 快速接地开关用于接地和回路短路；
8. 外壳防护等级为 IP3X，手车室门打开状态下，防护等级 IP2X；

Features of the Structure:

1. The cubicle adopts assembly type with hand truck type roll-out vacuum circuit breaker.
2. The cubicle uses new compound insulation vacuum circuit breaker, which is easy to replace..
3. The frame of the truck is equipped with leading-nut drive-in mechanism which can easily push the hand truck and prevent incorrect operation and damage of drive-in mechanism.
4. All the operations are done in the closed position.
5. All interlocks within the main switch, truck and cubical adopt compulsive mechanical locking and can meet the requirements of "FIVE PROVENTION".
6. The cable compartment has enough room for connection of lots of cables.
7. The prompt earthing switch is used for earthing and short-circuit loop.
8. The protection degree for the enclosure is IP3X. It is IP2X when the truck compartment is open.

二、使用环境条件:

环境温度：不高于+40℃，不低于-10℃。

相对湿度：日平均值不大于 95%，月平均值不大于 90%。

地震烈度：不超过 8 度。

水蒸汽压力：日平均值不超过 2.2kPa，月平均值不超过 1.8kPa。

海拔高度：不超过 1000m。（除海拔特殊要求）

无火灾、爆炸危险、严重污秽、化学腐蚀及剧烈震动的场所。

Operating Conditions:

Ambient temperature: The max. temperature should be no higher than +40℃. The min. temperature should be no lower than -10℃.

Relative Humidity: The daily average humidity should be no more than 95%. The monthly average humidity should be no more than 90%.

Earthquake intensity is not more than 8 degree.

Water vapour pressure: The daily average value is no more than 2.2 kPa, the monthly average value is no more than 1.8 kPa.

Altitude height is no higher than 1000 m. (except special request in altitude)

It should be used in the places without fire, explosion, serious filth, chemical erosion and violent vibration.

三、开关柜技术参数: Specification sheet

序号 No	名称 Name		单位 Unit	数值 Parameter
1	额定电压 Rated Voltage		kV	40.5
2	额定绝缘电压 Rated insulating voltage	额定工频耐受电压 Short-Time power-frequency withstand voltage	kV	95/1min
3		额定雷电冲击耐受电压 Rated lightning impulse withstand voltage	kV	185
4	额定电流 Rated current		A	630 1250 1600 2000
5	额定短时耐受电流 Rated short-time withstand current		kA	20 25 31.5
6	额定峰值耐受电流 Rated withstand current (peak)		kA	50 63 80
7	额定短路持续时间 Rated duration of short circuit		S	4
8	防护等级 Protection degree			IP3X

四、结构及外型尺寸: Construction and outline dimension

五、开关柜地基安装示意图

六、订货须知: Guide for order

1. 一次线路主方案编号、单母线系统图，排列图及平面布置图。

Design No. for primary circuit, the single busbar diagram, arrangement design and layout

2. 二次回路电气原理图及端子排列图。

The schematic diagram of secondary circuit and ends arrangement design

3. 开关柜内电器元件的型号、规格、数量。

Type, specification and quantity of the cubicle

4. 主母线、分支母线的规格、材质。

Specification and material of main and branch busbar.

5. 需要母线桥（两列柜间母线桥和墙柜间母线桥）时，提供跨距和高度尺寸。

Distance and height required, when busbar bridge (busbar bridge between rows of cubicles and the wall) is needed

6. 备品、备件的名称规格及数量。

Name, specification and quantity of spare parts.

7. 特殊要求同制造方商定。

For special requirements, please discuss with the manufacturer.