

# KYN61-40.5(Z)

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



### 产品概述

KYN61-40.5(Z) 型铠装移开式交流金属封闭开关柜（以下简称“开关柜”）系三相交流 50/60Hz、额定电压 40.5kV 的户内成套配电装置。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 GB/T11022、GB3906 及 DL/T404 等标准。

### Product Summary

KYN61-40.5(Z) metal-clad movable AC switchgear is an indoor switchgear, assembly operating under the Conditions of 50/60Hz three phase and rated 40.5kV AC voltage, which applied to the transmission and distribution for generators, transformer substations and the industry and mine enterprises. It also can be used to control, protect and monitor electric circuits, and very useful to frequent operating conditions. It is according with GB/T11022, GB3906, DL/T404 and other relative standards.

### 环境条件

- 环境温度：不高于 +40℃，不低于 -15℃。且 24h 内平均温度不超过 +35℃。
- 海拔高度：海拔不超过 1000m。
- 相对湿度：日平均值不超过 95%，月平均值不超过 90%。
- 地震烈度：不超过 8 度。
- 水蒸气压力：日平均值不超过 2.2kPa，月平均值不超过 1.8kPa。
- 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

- Ambient Temperature: No more than +40℃, No less than -15℃. Average temperature no more than +35℃ within 24 hours.
- Altitude: No more than 1000m.
- Relative Humidity: Average humidity no more than 95% within one day, Average humidity no more than 90% within one month.
- Earthquake Intensity: No more than 8 degrees.
- Vapor Pressure: Average pressure no more than 2.2kPa within one day, Average pressure no more than 1.8kPa within one month.
- No fire, explosion danger, serious dirt, chemical corrosion and violent vibration for product installed place.

### 产品特点

- 柜体及隔板采用敷铝锌钢板，柜架采用组装式结构，整体强度高，接地连续性好。
- 柜体采用组合式，断路器采用手车落地式结构。
- 配有全新复合绝缘真空断路器，具有互换性好更换简单之特点。
- 手车采用螺杆推进机构，可轻松移动手车，并防止误操作而损坏推进机构。
- 所有的操作均可在柜门关闭状态下进行。
- 主开关、手车、开关柜门之间的联锁均采用强制性机械闭锁方式，满足“五防”功能。
- 电缆室空间充裕，可连接多根电缆。
- 柜体防护等级达到 IP4X，有效防止设备受杂物及虫害侵入。
- 产品通过严酷的凝露、污秽及内部燃弧耐受试验，运行安全可靠。

### Product Features

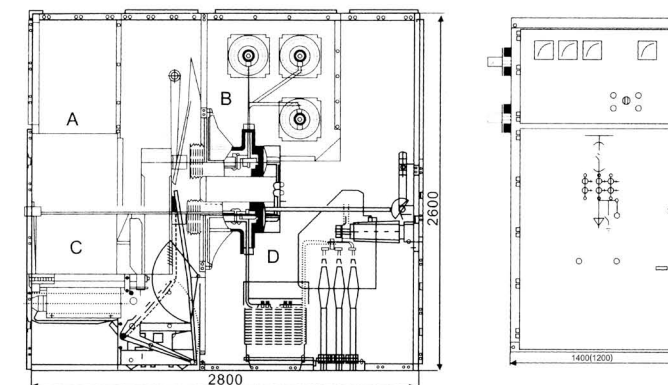
- Cabinet and plate are made of galvanized aluminum board, cabinet use assembled structure, with high overall strength and well earthed continuity.
- Cabinet use combined type, and the VCB use the type of console trolley.
- VCB equipped with new type of composite insulation, well interchange and easy maintain.
- Trolley use screw propulsion mechanism, can easily move the trolley, and prevent from damage the propulsion mechanism in case of mal-operation.
- All operating can be done in the condition of closing the door of the panel.
- The interlock between main switch, trolley and door of the panel must adapt with mechanical block, in order to meet the function of "five-prevent".
- Cable cabinet with enough space to connect more cables.
- The protect degree of the panel can be IP4X, can prevent device from invasion of plant pest.
- This product has passed brutal condensation, contamination and internal arc duration test, operating safety and reliable.

### 技术参数

序号 Sr.	名称 Content	单位 Unit	数值 Value
1	额定电压 Rated Voltage	kV	40.5
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 95
		隔离断口 Isolated Fracture	kV 110
5	雷电冲击耐受电压（峰值） Lightning Impulse Withstand Voltage(Peak)	级间、对地 Phase, Earthed	kV 185
		隔离断口 Isolated Fracture	kV 215
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	内部燃弧试验（0.5s） Internal Arc Duration Test(0.5s)	kA	31.5
14	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)
15	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

### Technical Parameters

### 开关柜结构尺寸示意图



### Structure Dimension and Sketch

- A 继电器仪表室  
Relay & instrument chamber
- B 母线室  
Busbar Chamber
- C 断路器室  
Circuit breaker Chamber
- D 电缆室  
Cable Chamber