

## Product Overview

KYN61-40.5 Armored Removable AC Metal Enclosed Switchgear (hereinafter referred to as switchgear) is an indoor complete set of power distribution equipment with three-phase AC current of 50Hz and rated voltage of 40.5kV. As a power plant, substation, and industrial and mining enterprise that receives and distributes electrical energy, it plays a role in controlling, protecting, and monitoring circuits, and can also be used in places with frequent operations. This switchgear complies with GB3906-2006, GB/T11022-1999, DL/T404-2007 and other standards

## Main features

The cabinet structure adopts an assembled type, and the circuit breaker adopts a handcart floor standing structure  
Equipped with a brand new composite insulated vacuum circuit breaker, which has the characteristics of good interchangeability and easy replacement  
The handcart frame is equipped with a screw nut propulsion mechanism, which can easily move the handcart and prevent damage to the propulsion structure due to misoperation  
All operations can be performed with the cabinet door closed  
The interlocking between the main switch, handcart, and switch cabinet door adopts a mandatory mechanical locking method to meet the "five prevention" function  
The cable room has ample space and can connect multiple cables  
Quick grounding switch is used for grounding and closing short-circuit circuits  
The protection level of the shell is IP3X, and when the handcart door is open, the protection level is IP2X  
The product complies with GB3906-2006, DL/T404-2007, and adopts the international IEC298 standard as a reference

## Usage conditions

Environmental temperature: upper limit +40 °C, and the average value measured within 24 hours does not exceed 35 °C, lower limit -10 °C  
Altitude: not exceeding 1000m  
Relative humidity: daily average not exceeding 95%, monthly average not exceeding 90%  
Shock resistance: not exceeding 8 degrees  
Water vapor pressure: daily average not exceeding 2.2kPa, monthly average not exceeding 1.8kPa  
Places without fire, explosion hazards, serious pollution, chemical corrosion, and severe vibration  
Note: If ordering this product exceeds the above conditions, please consult with our company

## Product Model Description

Main technical parameters of spring operated machinery

## 技术参数

弹簧操动机械主要技术参数

名称	单位	数值
额定操作电压	分闸线圈	V DC220/110 AC220/110
	合闸线圈	
额定操作电流	分闸线圈	A 0.96(220 V) 1.05(110V)
	合闸线圈	
储能电机功率	W	230
储能电机额定电压	V	DC220/110 AC220/110
储能时间	S	≤ 12

真空开关柜主要技术参数

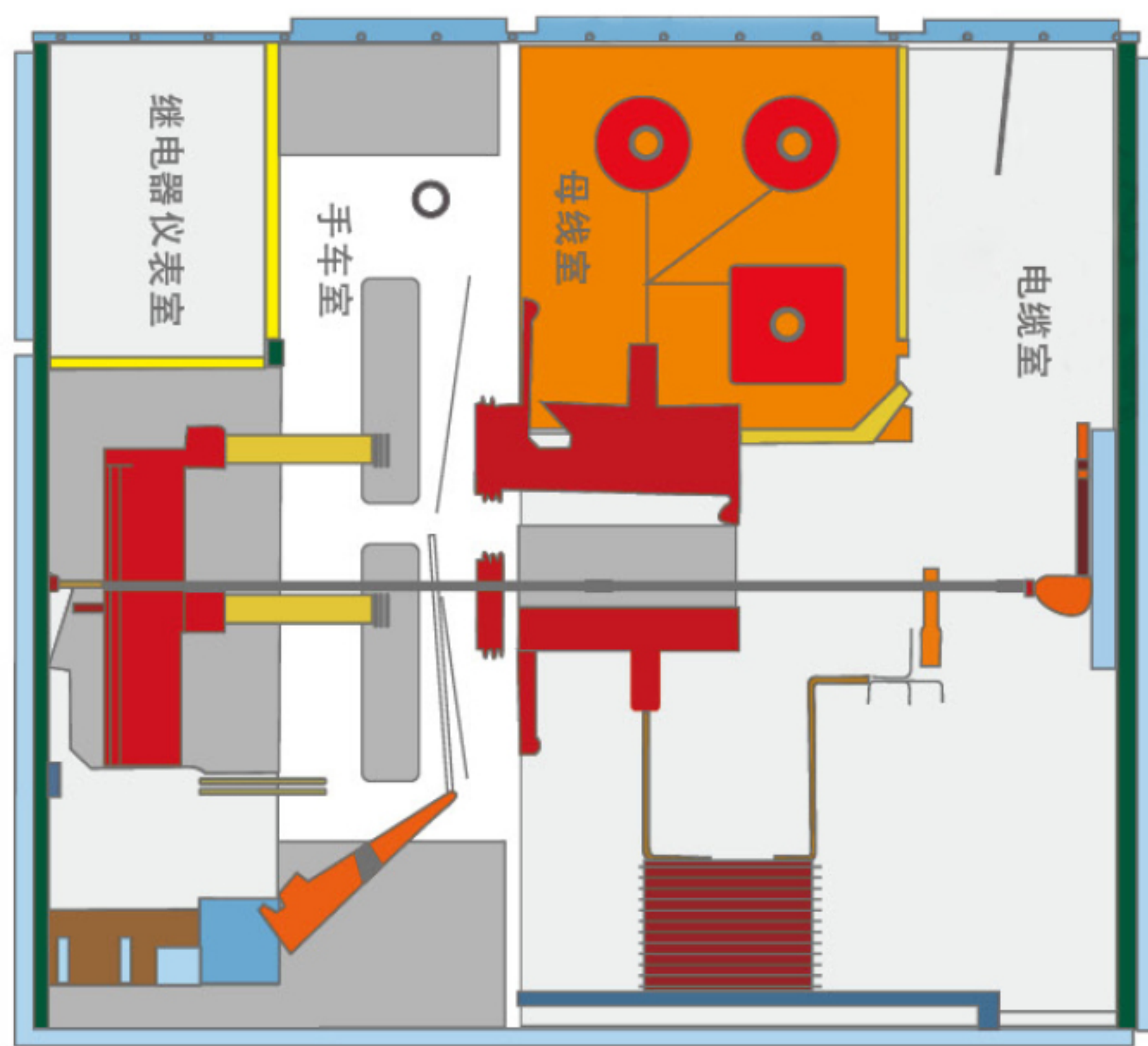
序号	名称	单位	数值
1	额定电压	kV	40.5
2	额定电流	A	1250 1600 2000
3	额定频率	Hz	50
4	额定短时耐受电流	kA	20 25 31.5
5	额定峰值耐受电流	kA	50 63 80
6	额定工频耐受电压	kV	95/1min
7	额定雷电冲击耐受电压	kV	185
8	额定短路持续时间	s	4
9	防护等级		IP3X

Main technical parameters of vacuum circuit breaker

## 技术参数

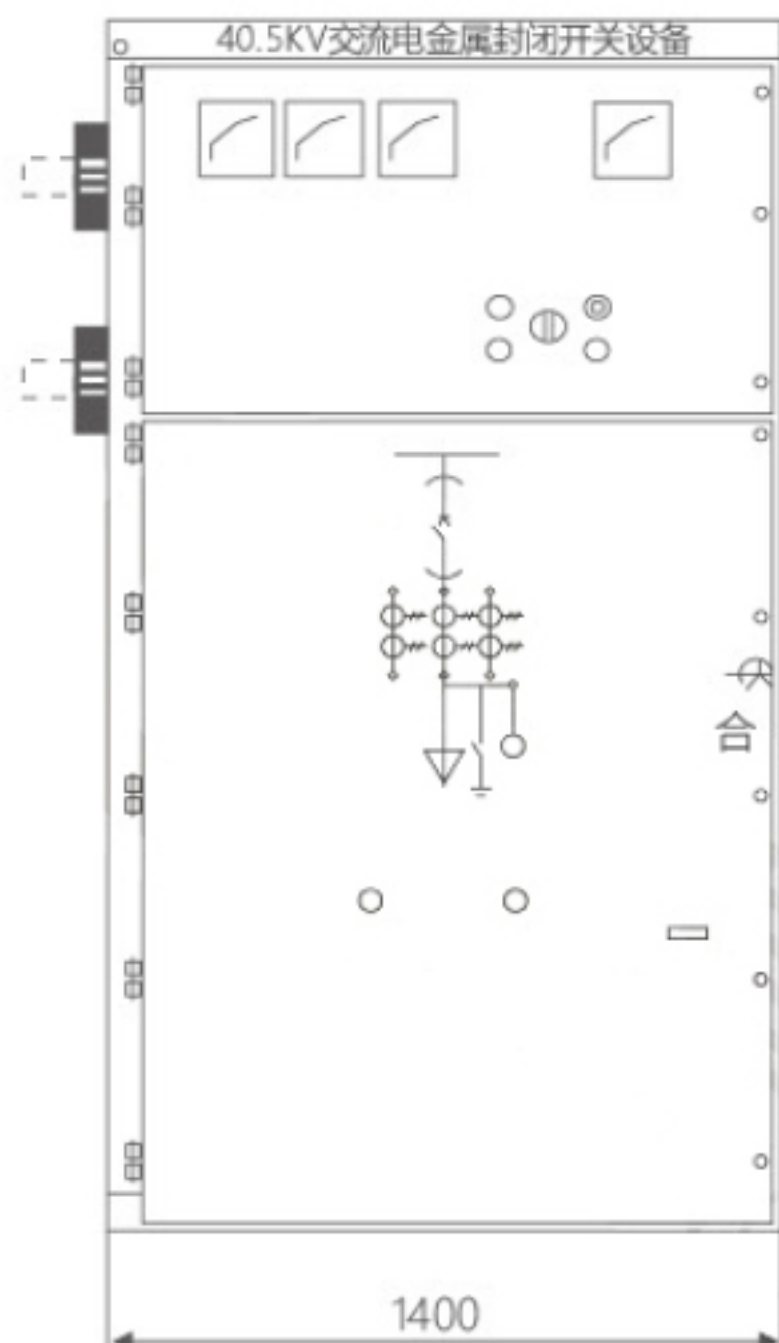
真空断路器主要技术参数

序号	名称	单位	数值
1	额定电压	kV	40.5
2	额定频率	Hz	50
3	额定工频耐受电压	kV	95/1min
4	额定雷电冲击耐受电压	kV	185
5	额定电流	A	1250 1600 2000
6	额定短时耐受电流	kA	20 25 31.5
7	额定短路开断电流	kA	20 25 31.5
8	额定峰值耐受电流	kA	50 63 80
9	额定短路持续时间	ms	4
10	分闸时间	ms	30 ≤ t ≤ 60
11	合闸时间	ms	50 ≤ t ≤ 100
12	额定短路开断电流次数	次	20
13	机械寿命	次	10000

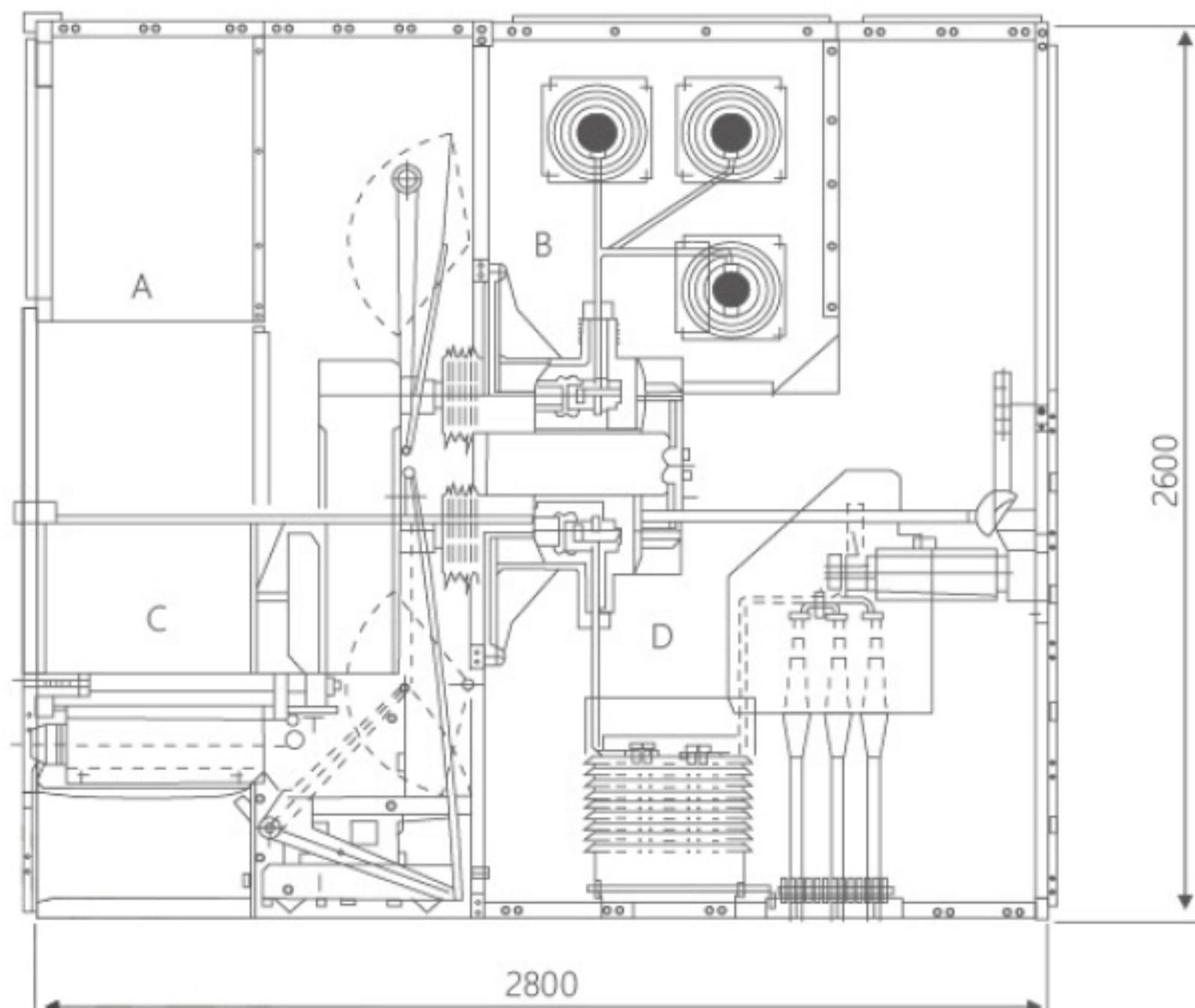


## External dimensions of switchgear

## 开关柜外形尺寸



外形尺寸(宽 × 深 × 高):  
1400×2800×2600



开关柜结构示意图

A继电器仪表室 B母线室 C断路器室 D电缆室

## Installation of switchgear

Height of electrical room: ≥ 4500mm  
Distance from the back of the cabinet to the wall: ≥ 1500mm  
Flatness of infrastructure: ≤ 1mm/m<sup>2</sup>  
The height of the foundation embedded channel steel above the ground shall not exceed 3mm  
Fixed on the foundation using bolts or welding methods  
The weight of the switchgear is about 1800kg  
Width of switchgear operating corridor (single row): ≥ 3000mm, double row (face-to-face) ≥ 4000mm

## Ordering Notice

When placing an order, please indicate:

1. Main circuit scheme number, purpose, single line system diagram, arrangement diagram, and distribution room layout plan, etc
2. Schematic diagram and terminal arrangement diagram of auxiliary circuit wiring
3. The model, specifications, and quantity of electrical components inside the switchgear
4. Requirements for control, measurement, and protection functions of switchgear, as well as requirements for other locking and automatic devices
5. If a busbar bridge connection is required between switchgear or incoming cabinets, specific requirements such as the rated current carrying capacity of the busbar bridge, the span of the busbar bridge, and the height above ground should be provided
6. When attachments and spare parts are needed, the type and quantity should be specified
7. Switchgear used in special environmental conditions should be specified in detail when ordering