

一、概述 General Description:

KYN28A-12 (Z) (GZS1) 型铠装移开式交流金属封闭开关柜系三相交流 50Hz、额定电压 12kV 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，尤其适用于频繁操作的场所。本开关柜符合 IEC-298、GB3906-1991、DL404-1997 等标准。

KYN28A-12(Z) (GZS1) type drawn-out AC metal-clad cubicle is indoor distribution equipment working at 3 phase, 50Hz, 12kV rated voltage. It's widely used for 12kV electrical power supply and distribution equipment. It mainly receives and distributes electric power in power plants, substations, mines and factories to control, protect and inspect the circuit. It is also used in the places where it is frequently operated. It confirms to IEC-298, GB3906-1991, DL404-1997 standards.

本产品壳体采用进口敷铝锌板，多重折弯工艺，确保整体强度牢固，外形美观。

内配 ZN63A (VSI) -12 系列或 ABB 公司 VD4 系列专用手车式免维护真空断路器。

所有开关操作均在高压室门关闭的情况下进行，外壳防护等级 IP4X。

手车进出柜体采用丝杠螺母摇进机构，操作轻便。

真正中置式开关柜，手车互换性极好。

Material of the enclosure is imported Al applied Zn plate. The enclosure is made by multi bending process, which could ensure the fastness and nice looking.

The cubicle matches with ZN63A(VS1) -12 series VCB or VD4 series specialized maintenance free VCB of ABB. All operations can only be done when the door of high voltage compartment is closed. Protection degree of enclosure is IP4X.

Push in and out of the VCB adopts threaded lever mechanism, which is easy to operate.

The hand-truck VCB is in the middle of the switchgear. The VCB is interchangeable.

二、使用环境条件: Operating Conditions:

环境温度：不高于+40℃，不低于-10℃。

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

相对湿度：日平均值不大于 95%，月平均值不大于 90%。

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

地震烈度：不超过 8 度。

The earthquake intensity should not exceed 8 degree.

水蒸汽压力：日平均值不超过 2.2kPa，月平均值不超过 1.8kPa。

Water steam pressure: The daily average value does not exceed 2.2 kPa, the monthly average- value does not exceed 1.8 kPa.

海拔高度：不超过 1000m。（除海拔特殊要求）

The altitude height should not be higher than 1000m. (except special request in altitude)

无火灾、爆炸危险、严重污秽、化学腐蚀及剧烈震动的场所。

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



序号 No	名称 Name		单位 Unit	数值 Parameter
1	额定电压 Rated Voltage		kV	12
2	额定绝缘水平 Rated insulating Voltage	额定工频耐受电压 Rated Power-Frequency withstand voltage	kV	极间、极对地 pole to pole pole to earth
				断口间 inter-fracture
3		额定雷电冲击耐受电压 Rated lightning impulse withstand voltage	kV	极间、极对地 pole to pole pole to earth
				断口间 inter-fracture
4	额定电流 Rated current		A	1000 1250 1600 2000 3150
5	额定短时耐受电流 Rated short-time withstand current		kA	20 25 31.5 40
6	额定峰值耐受电流 Rated withstand current (peak)		kA	50 63 80 100
7	额定短路持续时间 Rated duration of short circuit		S	4
8	防护等级 Degree of protection			IP4X

四、开关柜结构示意图 Construction and Outline dimension Scheme

五、开关柜地基安装示意图 Ground Installation Scheme

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。

The scheme No. for primary circuit, the single-busbar diagram and arrangement drawing and layout

2. 二次回路电气原理图及端子排列图。

The schematic diagram for secondary circuit and end arrangement

3. 开关柜内电器元件的型号、规格、数量。

The 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 cubicle and between cubicle and 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 contact the manufacturer.