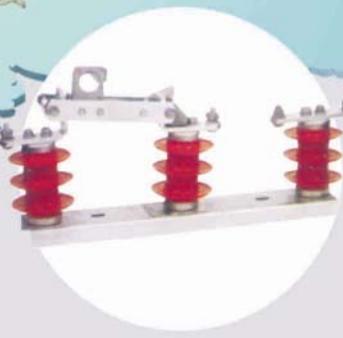


Rofessional Manufacturer in High Voltage Products field

The " GW9-10G " type of outdoor high voltage isolator switch is the high voltage switch equipment of single phase AC 50Hz. The product is suitable for power system with rated voltage 10kV to make or break power supply under circumstances of with voltage and no load. The isolator is adopts isolating hook rod to operate.



High-voltage
Isolate switch



隔离开关系列

High-voltage Isolate Switch



• 用途 Application

GW9-10G型户外高压隔离开关是单相交流50Hz高压开关设备,用于额定电流为10kV的电气系统中,作为有电压无负载的情况下接能或隔离电源之用。

本隔离开关用绝缘棒钢进行操作。

The "GW9-10G" type of outdoor high voltage isolator switch is the high voltage switch equipment of single phase AC 50Hz. The product is suitable for power system with rated voltage 10kV to break power supply under circumstances of with voltage and nomload.

The isolator is adopts isolated hook rod to operate.

• 正常使用条件 The normal conditions of use

- 海拔高度不超过1000m;
- 周围空气温度:上限+40℃,下限一般地区-30℃,高寒地区-40℃。
- 风压不超过700Pa.(相当于风速34m/s)。
- 地震烈度不超过8度。
- 无频繁剧烈震动场所。
- 普通型安装场所应无严重影响隔离开关绝缘和导电能力的气体、蒸汽、化学性沉积、盐雾、灰尘及其它爆炸性、侵蚀性的物质。
- 防污型适用于重污秽地区,但不应有引起火灾及爆炸物质。
- The altitude does not exceed 1000m.
- The ambient air temperature: Maximum +40℃; Minimum: General Area -30℃, paramos -40℃.
- The wind pressure does not exceed 700Pa (corresponding to 34m/s wind speed).
- The working situation without frequent violent vibration.
- The installation site of ordinary type isolator or should be away from gas, smoke chemical deposition, salt-spray fog, dust and other explosive and corrosive materials that affect seriously insulation and conduction capability of the isolator.
- Pollution-proof type isolator is applied to severe filthy conduction area, however, it shouldn't be any explosive materials and materials causing fire.

• 安装尺寸 Demension

本隔离开关可以垂直或倾斜安装外形和安装请见图

The isolator can be installed vertically or aslant, please see figure for overall and installation dimension

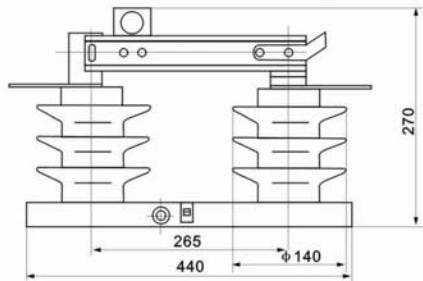


图1GW9-10(W)⁴⁰⁰/300外形尺寸

(防污型支柱绝缘直径Φ160)

Figure 1 Gw9-10(W)⁴⁰⁰/₃₀₀ Overall Dimension

(*The support insulator diameter

of the pollution proof type in Φ 160)

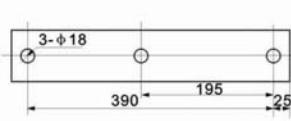


图2安装尺寸

Figure 2 Mounting Dimension

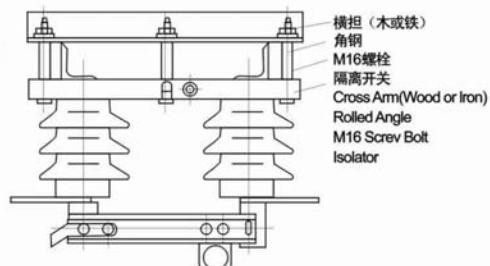


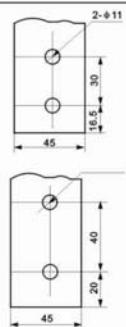
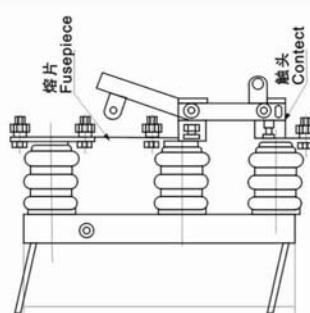
图3隔离开关的安装

Figure 3 Installation of Isolator

外形及安装尺寸 Overall and Installation Dimension

GWR1-0.5-600型户外低熔断式隔离开关尺寸见尺寸图

Please see Figure, for overall dimension of type GWR1-0.5-600 low voltage fusr type fuse type isolator outdoor.





隔离开关系列

High-voltage Isolate Switch

• 主要技术参数 Main technical parameters



12KV-15KV

型号 Tpye		GW9-10W/400	GW9-10W/630
额定电压 Rated Voltage(kV)		12	12
额定电流 Rated current(A)		400	630
4S热稳定电流 4S Heat steady current(A)		12,500	12,500
动稳定电流 Shock steady current(A)		31,500	31,500
冲击耐压 Impulse Withstand voltage	相对地 To earth	75	75
	断口间 Across the isolating distance	85	85
工频耐压 (kV) Power-frequency Withstand voltage	相对地 To earth	38	38
	断口间 Across the isolating distance	42	42



10KV-15KV

型号 Tpye		GW9-10W/12W15W			
额定电压 Rated Voltage(kV)		10,12,15			
额定电流 Rated current(A)		200	400	630	1000
极限通过电流(kV) 峰值 Peak value		5	21	15	10
Limit PassingCurrent 有效植 r.m.s		9	35	25	14
10秒热稳定电流10-seco Heat stabilization Current(kV)		5	50	35	20



12KV-15KV

型号 Tpye		GW9-10W/15W	
额定电压 Rated Voltage(kV)		12-15	
额定电流 Rated current(A)		400	
4S热稳定电流 4S Heat steady current(A)		12,500	
动稳定电流 Shock steady current(A)		31,500	
冲击耐压 Impulse Withstand voltage	相对地 To earth	75	
	断口间 Across the isolating distance	85	
工频耐压 (kV) Power-frequency Withstand voltage	相对地 To earth	38	
	断口间 Across the isolating distance	42	



500V

型号 Tpye		JDW2-500	JDW2-500
额定电压 Rated Voltage(kV)		500	500
额定电流 Rated current(A)		500	800
开断电流 Breaking current		30-500	30-500



0.5A-1600A

熔片额定电流 Fuse Rated Current	120A	150A	220A	300A	360A	470A	600A
熔片规格 Fse specification	0.15	0.20	0.30	0.50	0.50	0.80	0.90
配变压器容量(KVA)Transformer volume	80	100	150	180-200	250	315-320	400

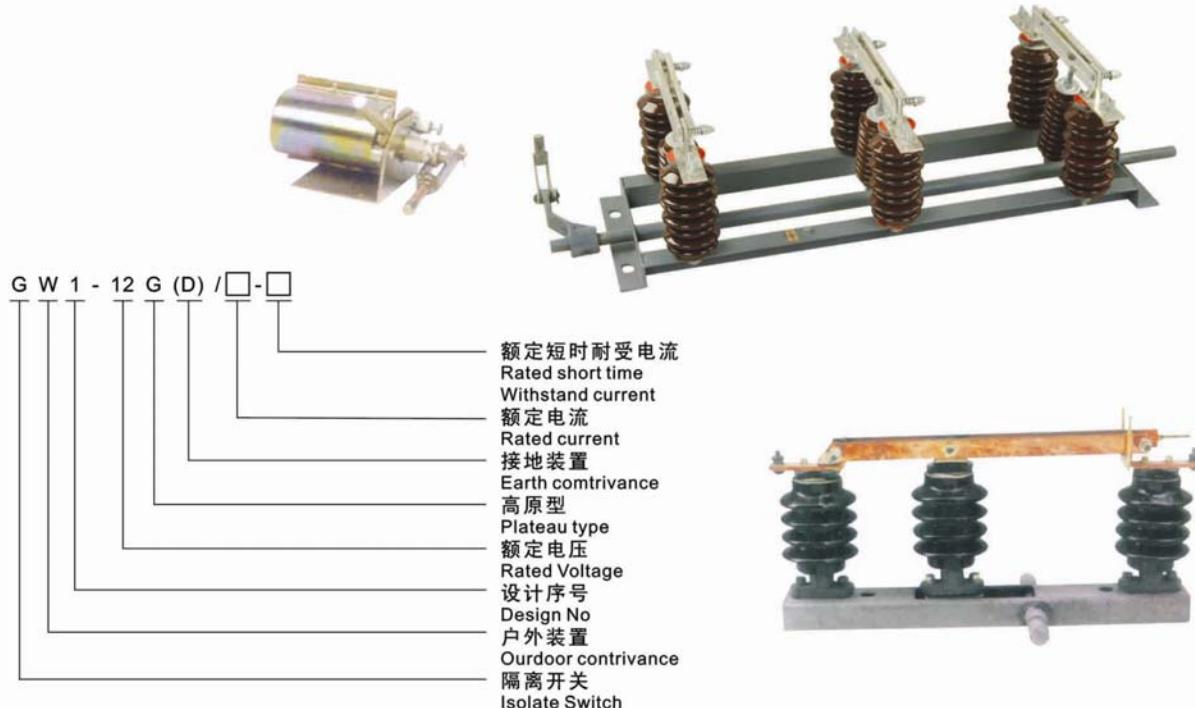


隔离开关系列

High-voltage Isolate Switch



• 型号说明 Type and definition



• 使用环境 Operating condition

- 海拔高度: 2000米以下;
- 环境温度: 上限+40℃, 下限一般地区-30℃, (高寒地区-40℃)。
- 风压不超过700Pa. (相当于风速34m/s)。
- 地震烈度不超过8度。
- 普通型安装场所应无严重影响隔离开关绝缘和导电能力的气体、蒸汽、化学性沉积、盐雾、灰尘及其它爆炸性、侵蚀性的物质;
- 防污型适用于重污秽地区, 但不应有引起火灾及爆炸物质。

- The altitude above sea level:1000m.
- The ambient air temperature:-40~40℃ Wind speed does not exceed 35m/s
- The earthquake intensity does not exceed 8degrees
- The working situation without frequent violent vibration.
- The installation site of ordinary type isolator should be kept away from gas,smoke chemical deposition,salt-spray fog,dust and other explosive and corrosive matters that affect seriously insulation and conducti on capabilityof the isolator.
- Pollution-proof type isolator is applies to severe filthy conduction area.However,it shouldn 't be any explosive matters and matters causing fire.

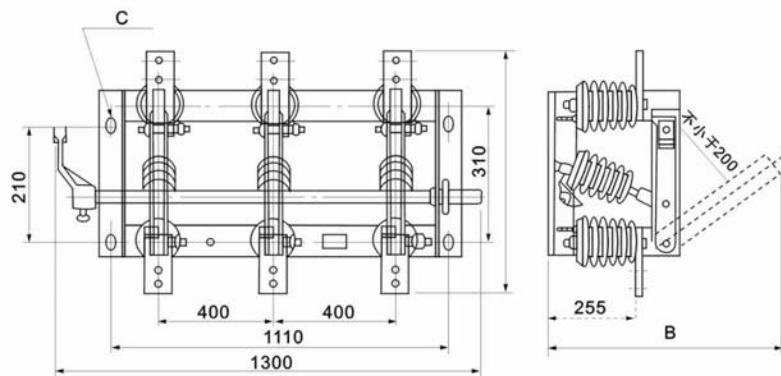
• 产品使用范围 Scope of use

- GW1-12D(D)系列户外高压隔离开关, 为极结构的高压开关设备, 在户外12kV线路网络中有电压无负载情况下分、合电路之用, 带接地刀的开关, 配用CS□型手动机构, 可防止带电接地线和带接地线“合闸”等误操作, 操作人员也不必再另挂地线。其中防污型户外高压隔离开关可满足严重污秽地区用户的要求, 可以有效地解决隔离开关在运行中出现的污闪问题。

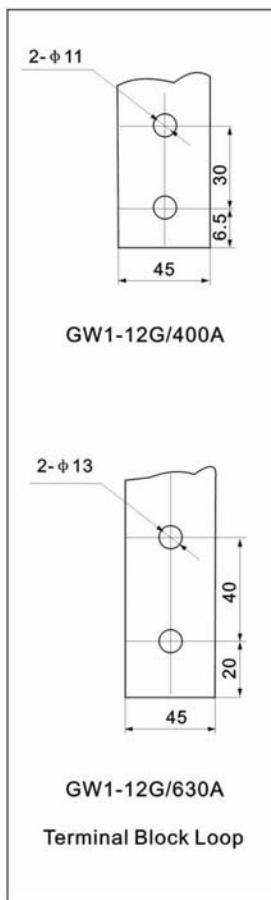
GW1-12D(D)series outdoor high voltage Isolate switch is the high voltage switch equipment of composite structure is suitable for outdoor 12kVline net with voltage and no load,to make opening and close,With CS□type manpower operate machinery,can avoid earth life with power and composite flash-locks etc wrong operate,The operator is no need to put another earth line.Pollution-prooftype isolate switch satisfy customer in filthy conductio area,It can solve the pollution of shed when it is work.



• 安装及外形尺寸图 Overall and installation dimension



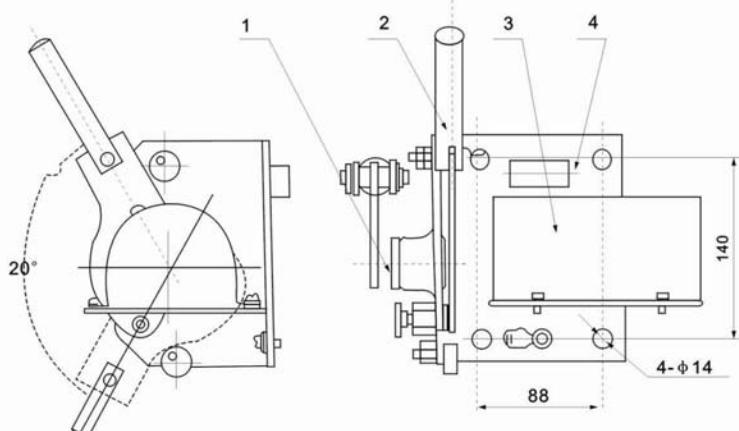
GW1-10G Series



GW1-12G/400A

GW1-12G/630A

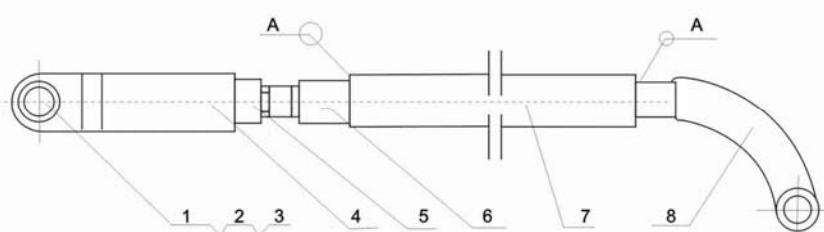
Terminal Block Loop



CS8-5framework 1

Connect pole

- 1 φ12Single
- 2 Washer12
- 3 Open bolt4 25
- 4 Bend coupling
- 5 M16Nut
- 6 Pole
- 7 3/4Water gas pipe
- 8 Connect pole head



Product model number	A	B	C
GW1-12D/400A	510	555	$18 \times 24 = 4$
GW1-12G/630A	530	555	



隔离开关系列

High-voltage Isolate Switch



• 型号说明 Type and definition

GW4 - □ D / □ - □

- 额定短时耐受电流
Rated short-time withstand current
- 额定电流
Rated current
- 接地装置
Earth device
- 额定电压
Rated voltage
- 设计序号
Design NO
- 户外装置
Outdoor device
- 隔离开关
Isolate switch



• 概述 Summary

GW4系列户外隔离开关为交流50Hz的户外高压电路设备,额定电压等级有40.5kV、72.5kV和126kV,供高压线路在负载情况下进行开合以及对被检测高压母线,断路器等电器设备与带电的高压线路电气隔离之用,也可用于开、合小的电容或电感电流。

GW4 outdoor disconnecting switch is AC 50Hz outdoor HV equipments, there are 40.5kV, 72.5kV and 126kV rated voltage grade for it, it is supplied for switching on or off high circuit with load, electric isolating to electric appliances like such as maintaining HV bus, circuit breaker and live HV circuit, also for switching on or off small capacitive or inductive current.

• 主要结构说明 Structure definition

• 隔离开关由底座、绝缘支柱及导电部分及操作机构等组成,每极有两个支柱,每个支柱上端各装有导电闸刀,两部份闸刀触头处在两支柱的中间部位,支柱的下端各装有轴承套,在操作机构的带动下,可使闸刀作水平旋转90°,从而达到分合闸之要求。

• 隔离开关为单极型,也可通过连杆将三极连成能够联动的三极型式。配用CS11型或CS17型手动机构操作。其中CS17用于带接地装的隔离开关。(可根据需要配电动机构)。

从上述结构简介中不难看出,可隔离开关结构合理,操作灵活自如;可单极,也可三极使用,安装方便;触刀开距大,绝缘安全可靠。还可根据用户需要,不接地或配装单边接地或双接地均可。

• Discharging switch is consisted of base, insulation post, conductive part and operation mechanism, each pole has two posts, upper of them are all assembled conductive switch blades, two contacting places of contact for switch blade are in the middle of two posts. The lower end of two posts are all assembled the bearing housings, under the driving of operation mechanism, the switch blade can rotate 90 degree in level, so switching on or off can be realized.

• Disconnecting switch is single pole type, it can also be as three-pole type through linking rod connecting three poles, it can be mated with CS11 type or CS17 type manual operation mechanism, CS17 is for disconnecting switch with earth equipment, (Electric mechanism also can be mated according to requirement).

Through above mentioned instructing, obviously, the disconnecting switch processes the advantages such as reasonable structure, flexible operating, convenient installation, large gap of switch blade, it can be used as single pole or three poles, it can be as single earth or double earth or non-earth controlled by users.



隔离开关系列

High-voltage Isolate Switch

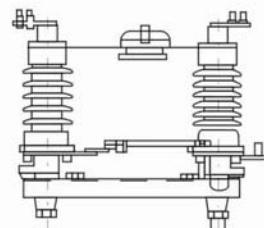
• 使用环境条件 Service condition

- 海拔高度: 1000~3000m.
- 环境温度: 不高于+40℃, 不低于-30℃(高寒地区不低于-40℃)。
- 风压: 不超过700Pa(相当于风速34m/s)。
- 地震烈度: 不超过8度。
- 覆冰厚度: 不大于10mm。
- 安装场所: 无易燃, 易爆危险品, 化学腐蚀及剧烈振动。
- 支柱绝缘子污秽等级: 普通型为0级, 防污型为Ⅱ。
- The altitude above sea level: 1000~3000m.
- The ambient air temperatures: -40~-0℃
- Wind speed does: not 700Pa(not exceed 34m/s).
- The earthquake intensity does: not exceed 8 degrees.
- Ice coating thickness: Not more than 10mm.
- Installation place: Exclude flammable and explosive objects. Chemical corrosion and drastic vibration.
- Pollution grade of post insulator: common type is 0 grade. Antipollution type is Ⅱ

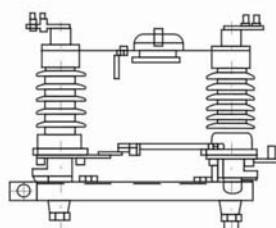
• 主要技术参数 Main technical parameters

型号 Type	额定电压 Rated voltage (kV)	额定电流 Rated current (A)	热稳定电流 (有效值) 4S heat steady current (A)	动稳定电流 (有效值) Shock steady current (A)	放电冲击耐压 (kV) Impulse withstand voltage		工作耐压 (kV) Power-frequency withstand voltage	
					相对地 TO earth	断口间 Across the isolating distance	相对地 TO earth	断口间 Across the isolating distance
GW4-10	10							
GW4-15	15							
GW4-35	35			50 80 100	185	215		90
GW4-63	63		2031.540	50 80 100	325	375	80	160
GW4-100	100	630 1250	2031.540 2031.540	5080 100	450	520	140	210
GW4-110G	110	2000 2500	2031.5	50 80	450	550	185	210
GW4-145	145		2031.540	50 80 100	650	750	275	315
GW4-220	220		31.54050	80 100 125	950	1050	395	460
GW4-245	245		31.54050	80 100 125	950	1050	395	460

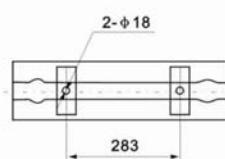
• 外型及安装尺寸 Overall installation dimension



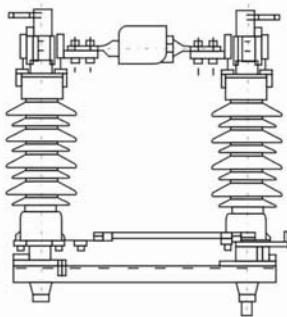
GW4-12



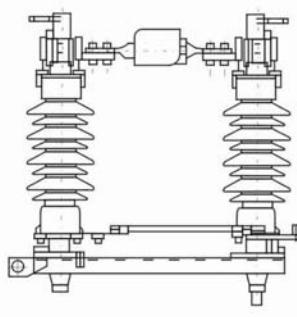
GW4-17.5D



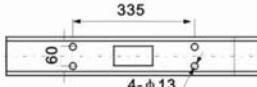
GW4-17.5D安装孔尺寸
Install hole size



GW4-40.5



GW4-40.5D



GW4-40.5D安装尺寸
Install size

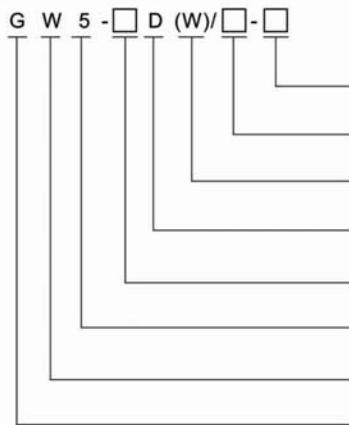


隔离开关系列

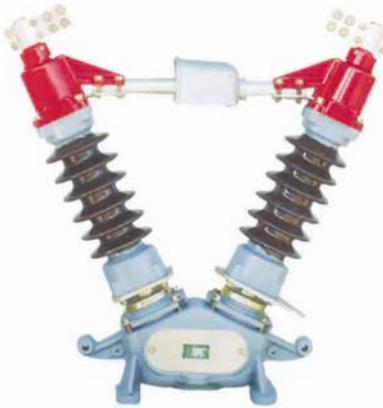
High-voltage Isolate Switch



• 型号说明 Type and definition



额定短时耐受电流
Rated short-time withstand current
额定电流
Rated current
防污型
Antifouling type
接地装置
Earth device
额定电压
Rated voltage
设计序号
Design NO
户外装置
Outdoor device
隔离开关
Isolate switch



• 概述 Summary

GW5系列户外隔离开关为交流50Hz的户外高压电路设备,额定电压等级有40.5kV、72.5kV和126kV,供高压线路在负载情况下进行开合以及对被检测高压母线,断路器等电器设备与带电的高压线路电气隔离之用,也可用于开、合小的电容或电感电流。

GW5 outdoor disconnecting switch is AC 50Hz outdoor HV requirements, there are 40.5kV, 72.5kV and 126kV rated voltage grade for it, it is supplied for switching on or off high circuit with load, electric isolating to electric appliances like such as maintaining HVbus, circuit breaker and live HVcircuit, also for switching on or off small capacitive or inductive current.

• 主要结构说明 Structure defnation

每台隔离开关单极由两个支柱绝缘子, 分别固定在一个底座上, 交角为50°, 构成V型结构, 主要由以下几部分组成: 底座部分, 支柱绝缘子, 接线座部分, 触头部分, 接地刀, 接地静触头, 接线端子等。

本隔离开关分不接地, 单接地和双接地三种, 主轴与接地刀之间具有机构连锁, 并带辅助开关。开关的操作方式有手动和电动两种。

Single pole of each disconnecting switch is constructed a V shape structure through two post insulators each fixing on one base to form 50 degree angle, this disconnecting switch is composed with base, post insulator, connecting base, contact, earth switch blade, earth static contact and connecting terminal.

This disconnecting switch can be separated into three kinds of non earth, single earth and double earth, between of main shaft and earth switch blade has mechanism interlock with auxiliary switch, the operating mode of switch has manual operation and electric operation.

• 使用环境条件 Service condition

- | | |
|--------------------------------|---|
| • 海拔高度: 小于3000m。 | • The altitude above sea level:<3000m. |
| • 环境温度: 不高于+40℃,不低于-30℃ | • The ambient air temperatures:+40~-30℃ |
| • 风压: 不超过35m/s。 | • Wind speed does:not exceed35m/s. |
| • 地震烈度: 不超过8度。 | • The earthquake intensity does:not exceed 8 degrees. |
| • 覆冰厚度: 不大于10mm。 | • Ice coating thickness: Not more than 10mm. |
| • 安装场所: 无易燃, 易爆危险品, 化学腐蚀及剧烈振动。 | • Installation place:Exclude flammable and explosive objects. Chemical corrosion and drastic vibration. |
| • 支柱绝缘子污秽等级: 普通型为0级, 防污型为Ⅱ。 | • Pollution grade of post insulator:common type is 0 grade. Antipollution type is Ⅱ |



隔离开关系列

High-voltage Isolate Switch



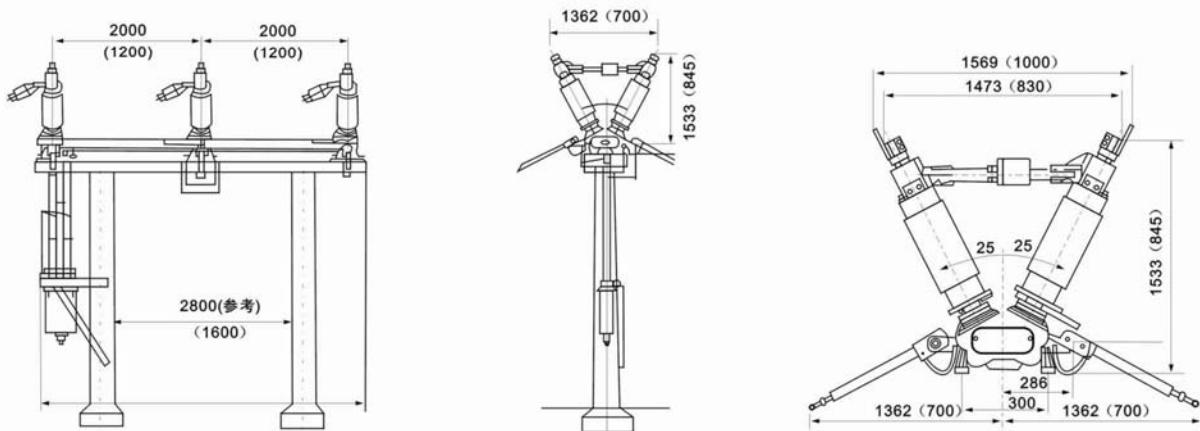
• 结构特点 Structure characteristic

- 转动灵活，开合自如。由于采用滚动轴承传动，所以在转动过程中较为灵活，操作比较省力；
- 通过伞齿轮机构来传动，从而保证两柱的分合闸动作一致；
- 分合闸有限位装置，保证触头接触在最佳位置。同时，操作完毕手柄被锁环扣住，以免发生无意识的外力作用下自由分合，从而保证了分合位置的可靠性；
- 触头开距大，有足够的裕量的绝缘隔离断口，从而保证了其安全性；
- 接地与不接地共有三种方式，主轴与接地之间有可靠的机械联锁，从而保证安全，用户可根据需要选定接地方式；
- 根据用户的方便，操作机构可以安装在任一极的下方，操作效果一样。
- The switch has the features of flexible rotation and free switching on or off. Because it is driven by rolling bearing, it is flexible To rotate, simple to operate; Through shed gear mechanism driving the switching on or off of two posts can be guaranteed the same.
- The switching on or off has the limiting position, thus the contact can be contacted at the best position. meanwhile, the handle is locked by locking ring after finishing operation, so that it can prevent free switching on or off of under no awareness, the reliability of switching on or off position can be ensured.
- Due to large gap of contact, enough large insulation and isolating clearance, the safety can be assured.
- There are three models on earth and non-earth. It can make sure the safety owing to reliable mechanical interlock between main shaft and earth, the earth mode can be chose according to user requirements.
- The operation mechanism can be installed at lower part of any poles, it is controlled by users, because operation efficiency is the same.

• 主要技术参数 Main technical parameters

型号 Type	额定电压 Rated voltage (kV)	额定电流 Rated current (A)	隔离开关 Lsolateswitch(kz)		隔离开关 Lsolateswitch(kz)		额定电压 Rated voltage (kV)	接地开关 Earth switch
			额定短时耐受电流 Rated short-time withstand current	额定峰值耐受电流 Rated peak withstand current	额定短时耐受电流 Rated short-time withstand current I型	额定峰值耐受电流 Rated peak withstand current II型		
GW5-40.5D(W)	40.5	1000	31.5(4s)	50				一般型 General type (防污型) Anti-fouling type
GW5-69D(W)	69	1250		20(4s) 31.5(4s)	50	80	不接地 No grounding 单接地 Single grounding	
GW5-126D(W)	126	1600	31.5(4s)	50				双接地 Double grounding
			2000					

• 外型及安装尺寸 Overall installation dimension



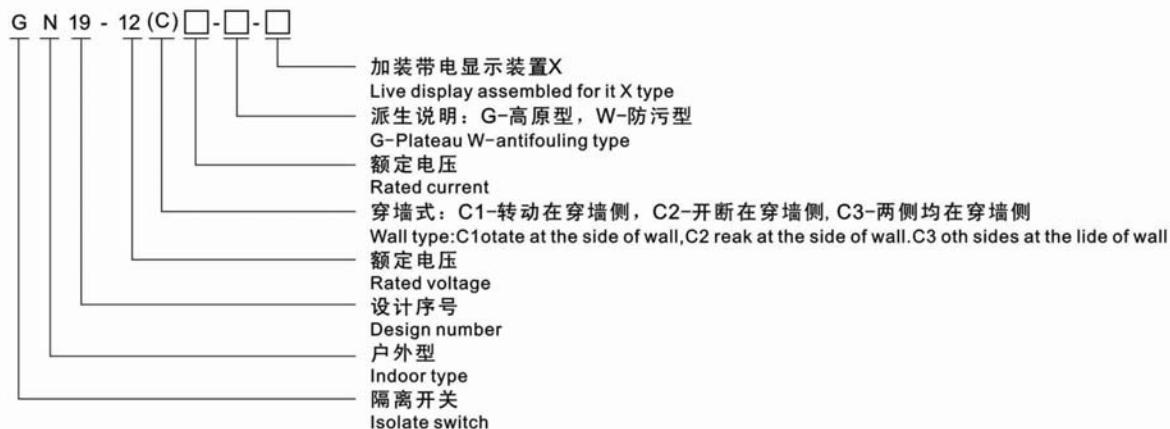


隔离开关系列

High-voltage Isolate Switch



• 型号说明 Type and definition



• 概述 Summary

GN19-12(C)系列户内高压隔离开关用于额定电压12kV交流50Hz及以下电力系统中，配用CS6-1型人力操作机构，作为在有电压而无负载情况下分、合电路之用，亦有派生产品防污型，高原型和可加装带电显示装置等。

GN19-12(C)Indoor disconnecting switch is applied in power system with rated voltage 12kV,AC 50Hz and or below,it is has anti-pollrti-th CS 6-1-1 manual operating mechanism,the switch with the voltage and with out load is used to switch on off,it has anti-pollrti-on type,plateau type of directive products,the live display can be installed with it.

• 使用环境条件 Service condition

- 海拔高度：1000m。
- 环境温度：不高于+40℃,不低于-30℃(高寒地区不低于-40℃)。
- 风压：不超过700Pa (相当于风速34m/s)。
- 地震烈度：不超过8度。
- 安装场所：无频繁的剧烈震动。
- 普通型安装场所：应无严重影响隔离开关绝缘和导电能力的气体，蒸气，化学性沉积，盐雾，灰尘及其它爆炸性，侵蚀性的物质。
- 防污型适用于重污秽地区，但不应有引起火灾及爆炸等物质。
- The altitude above sea level:1000m.
- The ambient air temperatures:-40~40℃
- Wind speed does:not 700Pa(not exceed34m/s).
- The earthquake intensity does:not exceed 8 degrees.
- The working situation: without frequent violent vibration.
- The installation site of ordinary type isolator should be kept away from gas,smoke chemical depositon,salt-spray fog,dust and other explosive and corrosive maters that affect seriously insulation and conduction capability of the isolator.
- Pollutionproof typeislator is applies to sever filthy conduction area. however,it shoudln,tbe any explosive matters and mattris causing fire.