

XIKAI

Disconnecting Switch & Isolator
Make or break power supply



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Key Of Power Electric Professional

- Composite Insulator
- Disconnecting Switch
- SF6 & Vacuum Circuit Breaker
- Surge Arrester
- Fitting&Clamp (Hardware)
- Wall Bushing
- Loadbreak Switch
- Fuse Cutout
- Whole Set Cabinet
- Cable Accessories

XIKAI

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Outdoor AC High-voltage Disconnect Switch

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Outdoor High-voltage Disconnect Switch

GW9-□(W)Series Outdoors High-voltage Disconnecting Switch

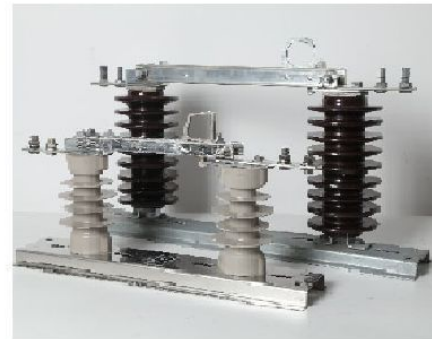
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Summary

GW9-12/24(W) outdoor AC high voltage disconnect switch (disconnect switch for short) is used to open and close circuit with voltage but no-load 50/60Hz, 6.6~24kV power system, anti-pollution type suitable for serious pollution area.

Ambient condition

1. Altitude: $\leq 1000\text{m}$;
2. Ambient temperature: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$;
3. Wind speed: $\leq 35\text{m/s}$;
4. Earthquake intensity: ≤ 8 degree;
5. Applicable occasions of normal type switch should be free from chemistry aggravation, dust and other volatile & caustic thing.



Technical specification

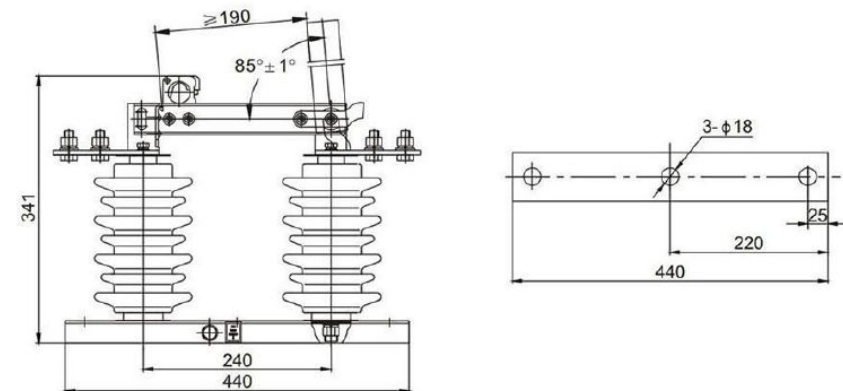
Model	Rated voltage (kV)	Rated current (A)	4s short-time withstand current(kV)	Withstand current (peak)	Rated insulation level		
					Lightning impulse		Power frequency withstand voltage(1min)
					Phase to earth (kV)	Across open contacts (kV)	Phase to earth wet (kV)
GW9(W)-12/24/400	12/24	400	12.5	31.5	75/125	85/145	34/60
GW9(W)-12/24/630	12/24	630	20	50			
GW9(W)-12/24/1000	12/24	1250	20	50			

Structure feature

GW9-12/24(W) disconnect switch is single type.

1. This series switch have normal and anti-pollute two difference models, it composed of frame, support insulator, with power part and operating mechanism.
2. Each pole have two pieces blade, there is press spring near the contactor base and have adjusted nut to keep good contact press, there is a support structure on the blade, it can be locked after closing, so it will not be closing by itself under any condition, under normal or short-circuit condition, it can ensure the reliable performance of dynamic and thermal stability.

Outline dimension



Drawing 1 GW9-12/630 Outdoor disconnect switch outline dimension

Outdoor High-voltage Disconnect Switch

GW9-□(W)Series Outdoors High-voltage Disconnecting Switch

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HGW9-12(W)kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
HGW9-12/200	12	200	12500	31500	75	85	38	42
HGW9-12/400	12	400	12500	31500	75	85	38	42
HGW9-12/600	12	600	12500	31500	75	85	38	42
HGW9-12/800	12	800	12500	31500	75	85	38	42
HGW9-12/1000	12	1000	12500	31500	75	85	38	42
HGW9-12/1200	12	1250	12500	31500	75	85	38	42



GW9-12(W)kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
GW9-12/200	12	200	12500	31500	75	85	38	42
GW9-12/400	12	400	12500	31500	75	85	38	42
GW9-12/600	12	600	12500	31500	75	85	38	42
GW9-12/800	12	800	12500	31500	75	85	38	42
GW9-12/1000	12	1000	12500	31500	75	85	38	42
GW9-12/1200	12	1250	12500	31500	75	85	38	42



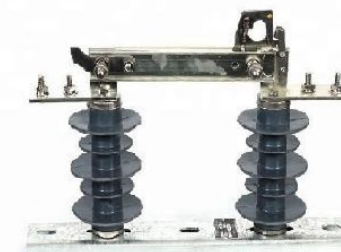
GW9-15kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
GW9-15/200	15	200	12500	31500	75	85	38	42
GW9-15/400	15	400	12500	31500	75	85	38	42
GW9-15/600	15	600	12500	31500	75	85	38	42
GW9-15/800	15	800	12500	31500	75	85	38	42
GW9-15/1000	15	1000	12500	31500	75	85	38	42
GW9-15/1200	15	1250	12500	31500	75	85	38	42



HGW9-12T

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
HGW9-12T/400	12	400	12500	31500	75	85	38	42
HGW9-12T/600	12	600	12500	31500	75	85	38	42
HGW9-12T/800	12	800	12500	31500	75	85	38	42
HGW9-12T/1000	12	1000	12500	31500	75	85	38	42
HGW9-12T/1200	12	1250	12500	31500	75	85	38	42



Outdoor High-voltage Disconnect Switch

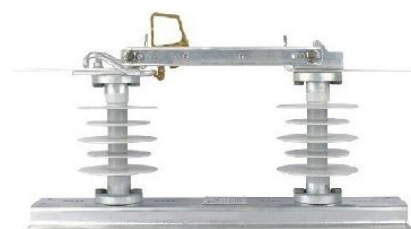
GW9-□(W)Series Outdoors High-voltage Disconnecting Switch

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HGW9-24kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
HGW9-24/400	24	400	12500	31500	75	85	38	42
HGW9-24/600	24	600	12500	31500	75	85	38	42
HGW9-24/800	24	800	12500	31500	75	85	38	42
HGW9-24/1000	24	1000	12500	31500	75	85	38	42
HGW9-24/1200	24	1250	12500	31500	75	85	38	42



GWD1-15kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage (kV)	Power-frequency withstand Voltage (kV)
GWD1-15	15	630	20	50	125	45



GWD2-15kV

Maximum voltage (kV)	BIL (kV)	Nominal current (A)	Transient current (kA/1s)	Dimensions			
				A	B	C	D
15	95	200/630	16	305	270	580	186
15	95	630	25	305	313	595	230
15	110	200/630	16	381	270	650	186
15	110	630	25	381	313	670	230
27	125	200/630	16	381	310	650	228
27	125	630	25	381	340	670	260
36	150	630	25	381	368	670	290
36	170	630	25	381	400	670	316



GW10-15kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage (kV)	Power-frequency withstand Voltage (kV)
GW10	15	400	14	40	150	65
GW10	15	630	20	50	150	65

Outdoor High-voltage Disconnect Switch

GW9-□(W)Series Outdoors High-voltage Disconnecting Switch

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GWXY10-15kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage (kV)	Power-frequency withstand Voltage (kV)
GWXY10	15	630	20	50	125	45



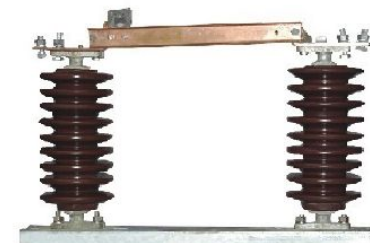
GW11-24kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage (kV)	Power-frequency withstand Voltage (kV)
GW11	24	400	14	40	150	65
GW11	24	630	20	50	150	65



(H)GW11-24kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse withstand voltage		Power-frequency withstand Voltage	
					Relatively earth	Between fracture	Relatively earth	Between fracture
GW9-15G/400	15	400	12500	31500	75	85	38	42
GW9-15G/630	15	630	12500	31500	75	85	38	42
GW9-24G/400	15	400	12500	31500	105	115	65	70
GW9-24G/630	15	630	12500	31500	105	115	65	70



GW12-33kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage (kV)	Power-frequency withstand Voltage (kV)
GW12	35	400	14	40	170	70
GW12	35	630	20	50	170	70

Outdoor High-voltage Disconnect Switch

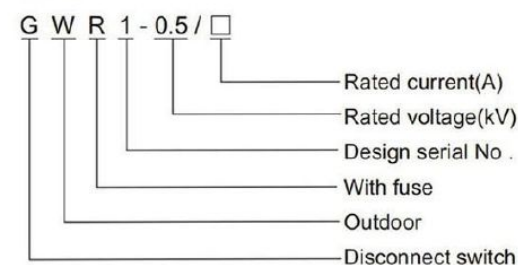
GWR1-0.5 Series Outdoors High-voltage Disconnecting Switch

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Summary

GWR1-0.5 series outdoor disconnect switch (disconnect switch for short) is used for power transformer outgoing, sub-feeder in the network, it is the newest product of fuse-cutout. It can open and close in over-head circuit and power transformer under the special condition, the disconnect switch can low down the power-off area, ensure the security of maintenance man, improve the reliability of power supply.

Model



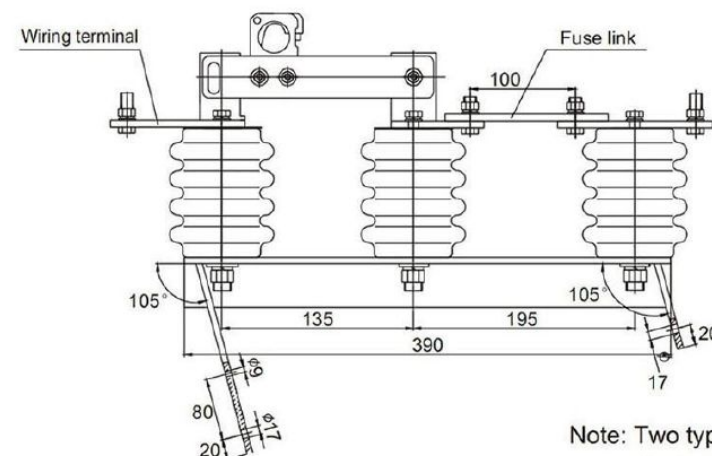
Ambient condition

- Altitude: $\leq 1000\text{m}$;
- Ambient temperature: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$;
- Relative humidity: $\leq 90\%$ (20°C);
- Applicable occasions should free from inflammable, explosives, severe vibration, dust and caustic gas.

Technical specification

Rated current fuse (A)	120	150	220	300	360	470	600
Fuse specification	0.15	0.20	0.30	0.50	0.6	0.8	1.0
Power transformer capacity (kVA)	80	100	150	180~200	250	315~320	400

Structure feature



- Double press for move-contact;
- Hot-galvanization for iron part;
- Simple structure, convenience for installation.

Note: Two types (horizontal and diagonal) can be chosen for the switch base (refer the diagram)



Outdoor High-voltage Disconnect Switch

JDW3-0.5(G)Series Low-voltage Disconnecting Switch

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JDW3-0.5kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
JDW3-0.5/200	0.5	200	12500	31500	4	5	2	3
JDW3-0.5/400	0.5	400	12500	31500	4	5	2	3
JDW3-0.5/630	0.5	630	12500	31500	4	5	2	3
JDW3-0.5/800	0.5	800	12500	31500	4	5	2	3
JDW3-0.5/1000	0.5	1000	12500	31500	4	5	2	3

JDW3-0.5GkV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
JDW3-0.5G/200	0.5	200	12500	31500	4	5	2	3
JDW3-0.5G/400	0.5	400	12500	31500	4	5	2	3
JDW3-0.5G/630	0.5	630	12500	31500	4	5	2	3
JDW3-0.5G/800	0.5	800	12500	31500	4	5	2	3
JDW3-0.5G/1000	0.5	1000	12500	31500	4	5	2	3

JDW3-0.5GkV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
JDW3-0.5G/200	0.5	200	12500	31500	4	5	2	3
JDW3-0.5G/400	0.5	400	12500	31500	4	5	2	3
JDW3-0.5G/630	0.5	630	12500	31500	4	5	2	3
JDW3-0.5G/800	0.5	800	12500	31500	4	5	2	3
JDW3-0.5G/1000	0.5	1000	12500	31500	4	5	2	3

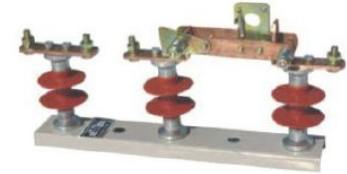
HJDW2-0.5kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
HJDW2-0.5/200	0.5	200	12500	31500	4	5	2	3
HJDW2-0.5/400	0.5	400	12500	31500	4	5	2	3
HJDW2-0.5/630	0.5	630	12500	31500	4	5	2	3
HJDW2-0.5/800	0.5	800	12500	31500	4	5	2	3
HJDW2-0.5/1000	0.5	1000	12500	31500	4	5	2	3



Outdoor High-voltage Disconnect Switch
JDW3-0.5(G)Series Low-voltage Disconnecting Switch

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HJDW3-0.5kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
HJDW3-0.5/200	0.5	200	12500	31500	4	5	2	3
HJDW3-0.5/400	0.5	400	12500	31500	4	5	2	3
HJDW3-0.5/630	0.5	630	12500	31500	4	5	2	3
HJDW3-0.5/800	0.5	800	12500	31500	4	5	2	3
HJDW3-0.5/1000	0.5	1000	12500	31500	4	5	2	3



HJDW3-0.5GkV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
HJDW2-0.5G/200	0.5	200	12500	31500	4	5	2	3
HJDW2-0.5G/400	0.5	400	12500	31500	4	5	2	3
HJDW2-0.5G/630	0.5	630	12500	31500	4	5	2	3
HJDW2-0.5G/800	0.5	800	12500	31500	4	5	2	3
HJDW2-0.5G/1000	0.5	1000	12500	31500	4	5	2	3



JDW5-0.5kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
JDW5-0.5/200	0.5	200	12500	31500	4	5	2	3
JDW5-0.5/400	0.5	400	12500	31500	4	5	2	3
JDW5-0.5/630	0.5	630	12500	31500	4	5	2	3
JDW5-0.5/800	0.5	800	12500	31500	4	5	2	3
JDW5-0.5/1000	0.5	1000	12500	31500	4	5	2	3

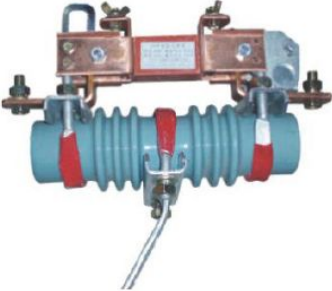


HJDW6-0.5GkV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
JDW7-0.5G/200	0.5	200	12500	31500	4	5	2	3
JDW7-0.5G/400	0.5	400	12500	31500	4	5	2	3
JDW7-0.5G/630	0.5	630	12500	31500	4	5	2	3
JDW7-0.5G/800	0.5	800	12500	31500	4	5	2	3
JDW7-0.5G/1000	0.5	1000	12500	31500	4	5	2	3

Outdoor High-voltage Disconnect Switch
JDW3-0.5(G)Series Low-voltage Disconnecting Switch

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HRWK-0.5kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
HRWK-0.5/200	0.5	200	12500	31500	4	5	2	3
HRWK-0.5/400	0.5	400	12500	31500	4	5	2	3
HRWK-0.5/630	0.5	630	12500	31500	4	5	2	3
HRWK-0.5/800	0.5	800	12500	31500	4	5	2	3
HRWK-0.5/1000	0.5	1000	12500	31500	4	5	2	3



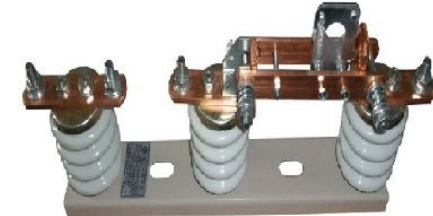
WTBK-0.5kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
WTBK-0.5/200	0.5	200	12500	31500	4	5	2	3
WTBK-0.5/400	0.5	400	12500	31500	4	5	2	3
WTBK-0.5/630	0.5	630	12500	31500	4	5	2	3
WTBK-0.5/800	0.5	800	12500	31500	4	5	2	3
WTBK-0.5/1000	0.5	1000	12500	31500	4	5	2	3



HWTBK-0.5kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
HWTBK-0.5/200	0.5	200	12500	31500	4	5	2	3
HWTBK-0.5/400	0.5	400	12500	31500	4	5	2	3
HWTBK-0.5/630	0.5	630	12500	31500	4	5	2	3
HWTBK-0.5/800	0.5	800	12500	31500	4	5	2	3
HWTBK-0.5/1000	0.5	1000	12500	31500	4	5	2	3



GWR1-0.5kV

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
GWR1-0.5/200	0.5	200	12500	31500	4	5	2	3
GWR1-0.5/400	0.5	400	12500	31500	4	5	2	3
GWR1-0.5/630	0.5	630	12500	31500	4	5	2	3
GWR1-0.5/800	0.5	800	12500	31500	4	5	2	3
GWR1-0.5/1000	0.5	1000	12500	31500	4	5	2	3

Outdoor High-voltage Disconnect Switch

JDW3-0.5(G)Series Low-voltage Disconnecting Switch

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HR20-0.5/3

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
HR20-0.5/200	0.5	200	12500	31500	4	5	2	3
HR20-0.5/400	0.5	400	12500	31500	4	5	2	3
HR20-0.5/630	0.5	630	12500	31500	4	5	2	3
HR20-0.5/800	0.5	800	12500	31500	4	5	2	3
HR20-0.5/1000	0.5	1000	12500	31500	4	5	2	3

※同型号JDW2-0.5KV—一体型



DRW-0.5/3

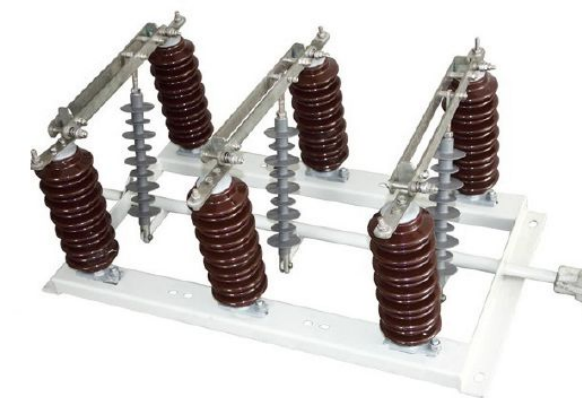
Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse with stand voltage(kV)		Power-frequency withstand Voltage(kV)	
					Relatively earth	Between fracture	Relatively earth	Between fracture
DRW-0.5/200	0.5	200	12500	31500	4	5	2	3
DRW-0.5/400	0.5	400	12500	31500	4	5	2	3
DRW-0.5/630	0.5	630	12500	31500	4	5	2	3
DRW-0.5/800	0.5	800	12500	31500	4	5	2	3
DRW-0.5/1000	0.5	1000	12500	31500	4	5	2	3



Outdoor High-voltage Disconnect Switch

GW1-12G(D)Series Outdoor High Voltage Isolate Switch

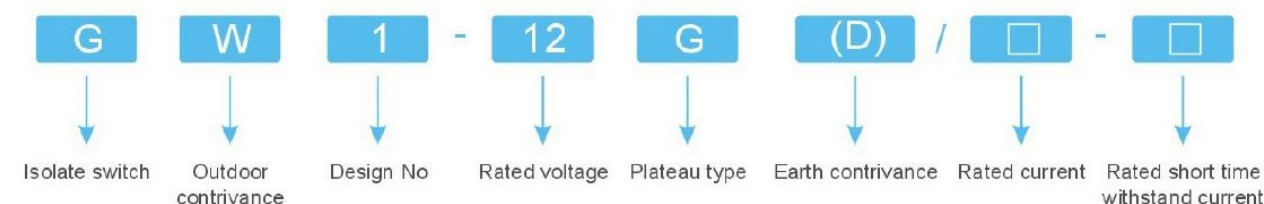
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• Environment of use

- 1.The altitude above sea level:2000m.
- 2.The ambient air temperature:-40~40℃ wind speed does not exceed 32m/s.
- 3.The earthquake intensity does not exceed 8 degrees.
- 4.The working situation is without frequent violent vibration.
- 5.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 conduction capability of the isolator.
- 6.Pollution-proof type isolator is applies to severe filthy conduction area, however, it shouldn't be any explosive matters and matters causing fire.

• Type and definition



• Scope use and feature

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



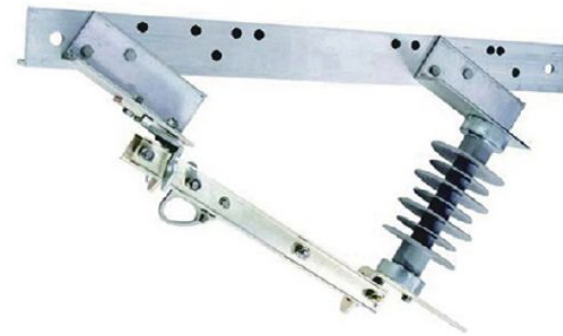
Outdoor High-voltage Disconnect Switch

Disconnect And Bypass Switches

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LW15-VS disconnect switch with V-style base



LW15-LS disconnect switch

• Introduction

XIYA designs its LW15-VS distribution-class switches for operation at 600 A and 900 A on distribution circuits rated up to 38 KV. 150 KV BIL Multiple available bases and mounting configurations make the LW15-VS style switch a versatile switching option for vertical or inverted cross arm installations. The silver-plated copper truss-type blade assembly provides superior strength and smoothly reliable latching mechanism.

• Technical data

Type	Rated Voltage (kV)	Rated Current (A)	4S Heat steady Current (A)	Shock steady Current (A)	Impulse withstand voltage		Power-frequency withstand Voltage	
					Relatively earth	Between fracture	Relatively earth	Between fracture
LW15-15G/400	15	400	12500	31500	75	85	38	42
LW15-15G/630	15	630	12500	31500	75	85	38	42
LW15-24G/400	15	400	12500	31500	105	115	65	70
LW15-24G/630	15	630	12500	31500	105	115	65	70

Outdoor High-voltage Disconnect Switch

Disconnect And Bypass Switches

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Normal Position



Bypass Position



Bypass Position

• Introduction

The LW1 bypass switch incorporates all the advanced design features of the LW15 switch into a compact 3-pull bypass unit. It consists of two hookstick-operated disconnect mounted on a galvanized channel with a bypass blade connected across the top terminals each switch. The bypass blade can be arranged for either right-hand (standard) or left-hand operation (optional). One mounting channel supports the entire switch for ease of installation and uncluttered appearance. The channel can be either cross arm mounter with a backstrap or bolted directly to a

• Technical data

Type	Max. Design (kV)	BIL (kV)	Mom. (kA)	Insulator Creep	Weight (lb)
UltraSIL Polymer	15.5	110	40	20.2(513)	62
UltraSIL Polymer	27	125	40	20.2(513)	62
UltraSIL Polymer	27	150	40	28(711)	75
UltraSIL Polymer	38	150	40	28(711)	75

Outdoor High-voltage Disconnect Switch

RH-B Series High Voltage Isolating Switch

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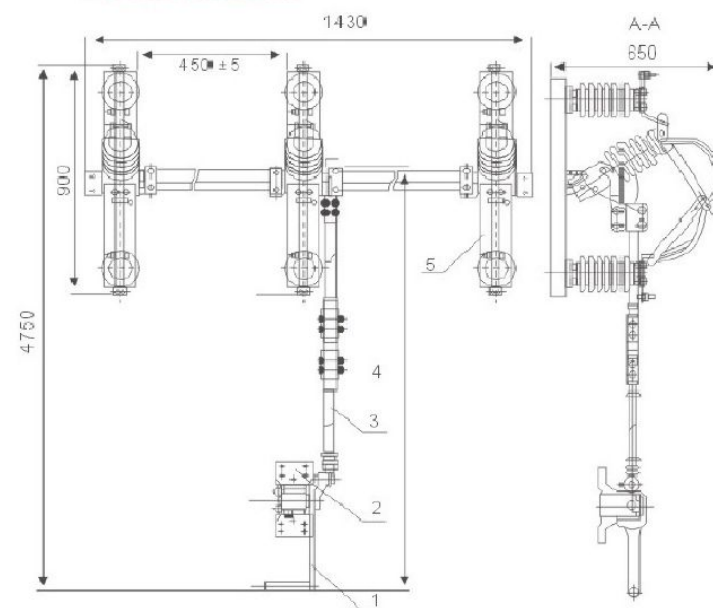
• Overview

- Outdoor AC switch disconnector 11kV/400A - 33kV/600A used in 3 phase AC 50/60Hz power circuit, it is used as switching on and switching off at the voltage with no load. It apply to IEC standard. IEC60964:1996, IEC62271-102:2002.

• Features:

- Manufacture according IEC standards.
- Up to 36kV, 900A, 200kV BIL.
- Three phase disconnector.
- Porcelain and polymer type insulator.
- Manual and electric drivers.

• Outline dimension



• Technical data

Type	Rated voltage (KV)	Rated Current (A)	4S Heat Steady e.c.A	With stand Current (peak) A	Impulse voltage		Power frequency withstand voltage	
					To earth (KV)	Across the isolating distance (KV)	To earth (KV)	Across the isolating distance (KV)
RH-B	11	400	12500	31500	75	95	38	42
	24	400	12500	31500	135	155	55	60
	33	600	12500	31500	170	195	70	80

Outdoor High-voltage Disconnect Switch

RH-B Series High Voltage Isolating Switch

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• GW1 Main Technical parameters

Items			Units	Technical parameters			
Rated voltage			kV	10	15	20	
Max.operating voltage			kV	12	17.5	23	
Rated insulation level	1min.Power frequency withstand voltage	To earth	kV	38	40	50	
		Across open DS	kV	42	47	60	
	Rated lightning impulse withstand voltage	To earth	kV	75	105	125	
		Across open DS	kV	85	120	145	
Rated frequency			Hz	50			
Rated current			A	200	400	630	1250
4s short time withstand current			kA	6.3	12.5	20	31.5
Peak withstand current			kA	16	31.5	50	80
Mechanism supplied for disconnector				CS8-1、CS8-D、CD8-5 Rain type manual mechanism or CX6 motor drive mechanism			

• HGW1 Main Technical parameters

Items			Units	Technical parameters			
Rated voltage			kV	10	24	33	
Max.operating voltage			kV	12	27	35	
Rated insulation level	1 min.Power frequency withstand voltage	To earth	kV	40	50	80	
		Across open DS	kV	47	60	90	
	Rated lightning impulse withstand voltage	To earth	kV	105	125	180	
		Across open DS	kV	120	145	210	
Rated frequency			Hz	50			
Rated current			A	200	400	630	1250
4s short time withstand current			kA	6.3	12.5	20	31.5
Peak withstand current			kA	16	31.5	50	80
Mechanism supplied for disconnector				CS8-1、CS8-D、CD8-5 Rain type manual mechanism or CX8-5 motor drive mechanism			



Outdoor High-voltage Disconnect Switch

GW1-12/24/40.5 Outdoor HV Disconnect Switch

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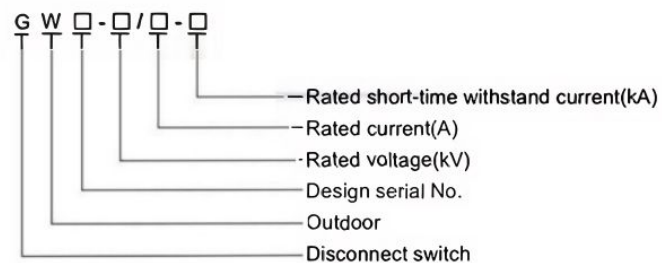
Summary

GW1-12/24/40.5-630-20(25) outdoor AC high voltage disconnect switch (disconnect switch for short) is used to open and close circuit with voltage but no-load 50/60Hz, 12/24/40.5kV power system. The anti pollution type can be used in the serious pollution area. Three pole linkage, good synchronous performance. It accords with standards of IEC62271-103: High voltage switches. NOTE: The model of the 24kV Outdoor HV Disconnect Switch is GW1-24.

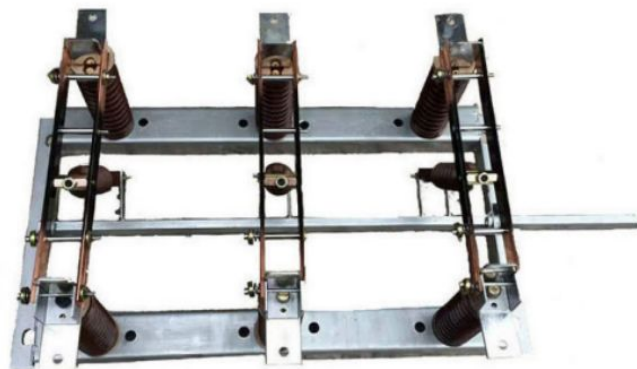
Ambient condition

1. Altitude: $\leq 3000\text{m}$;
2. Ambient temperature: $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$;
3. Wind speed: $\leq 35\text{m/s}$;
4. Air pollution: IV;
5. Earthquake intensity: ≤ 8 degree;
6. Ice thickness: $\leq 10\text{mm}$.

Model



GW1-12/24/40.5



Technical specification

No.	Item	Unit	Data		
1	Rated voltage	kV	12,24,40.5		
2	Rated current	A	630, 1000, 1250		
3	Rated power frequency	Hz	50/60		
4	Rated peak withstand current	kA	50, 63		
5	Rated short-time withstand current	kA	20, 25		
6	Rated short-time withstand current duration	s	4		
7	Main loop resistance	$\mu\Omega$	12kV ≤ 80	24kV ≤ 90	40.5kV ≤ 100
8	1min(dry) power frequency withstand voltage	kV	42/48		
9	1min(wet) power frequency withstand voltage		50/60		
10	lightning impulse withstand voltage (peak)		95/115		
11	Mechanical life	Times	34		
			75/85		
			125/145		
			185/215		
			2000		

Structure feature

This disconnect switch consists of frame, operating insulating, static contactor, blade, linkage spring mechanism, etc.

Frame: 5mm thickness bended armor plate, there are holes on the frame to fixed post insulator.

Post and operating insulator: adopt ZS-12, 40.5 series outdoor clubbed post insulator, The mini resist bend load is 4000N.

Static contactor: it is made of violet copperplate and fixed on post insulator.

Blade: it is made of rectangular violet copperplate, there is an press-spring to adjust press.

The switch vertical or horizontal installed in outdoor with CS mechanism.

Outdoor High-voltage Disconnect Switch

GW1-12/24/40.5 Outdoor HV Disconnect Switch

Model	Outline dimension(mm)				
	B	C	D	E	F
GW□-12/630-20	400	1000	1200	565	510
GWHY2-24/630-20	375	395	1155	695	650
GW□-40.5/630-20	500	1250	1450	815	728

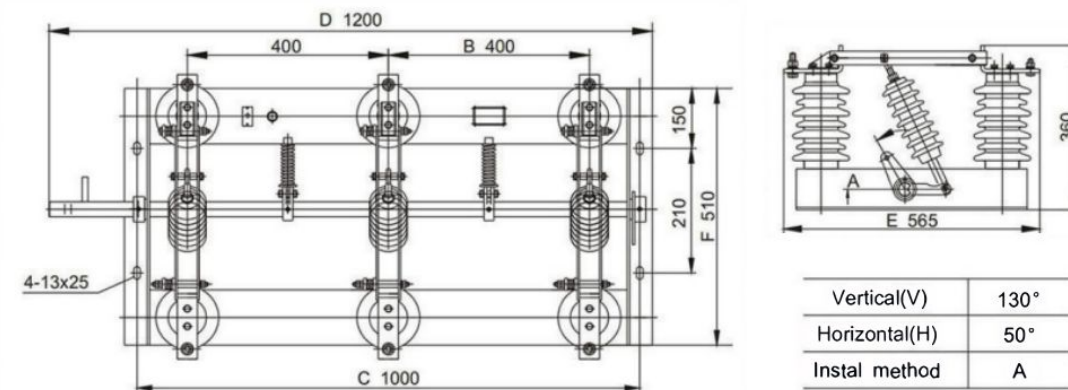


Fig.1 Outline dimension

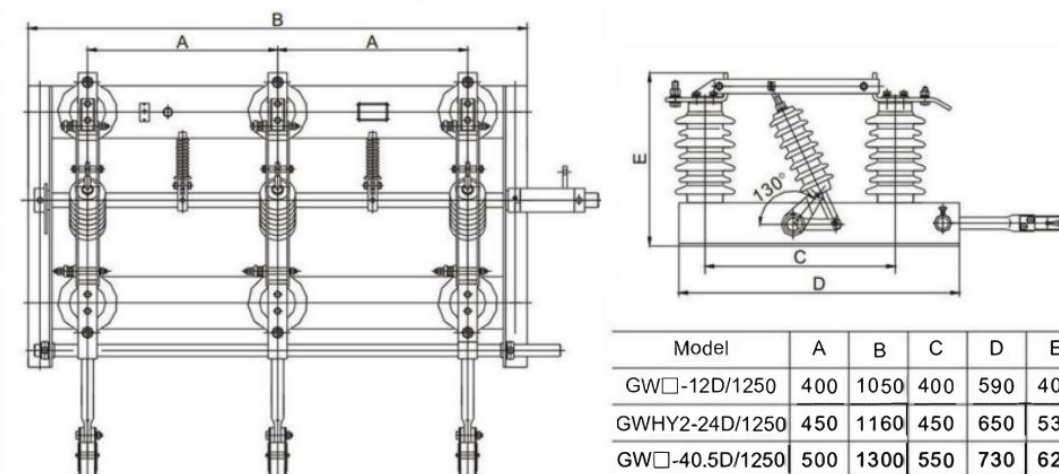
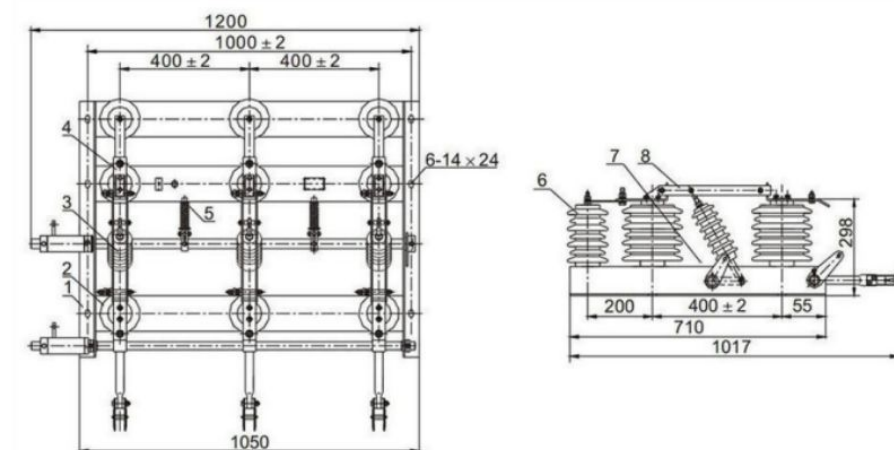


Fig.2 With earthing blade



- 1.Base frame 2.Post insulator 3.Pull insulator 4.Contacts 5.Spring
6.Lightning arrester 7.Rotating shaft turning arm 8.Contact blade 9.Earthing blade

Fig.3 With earthing blade & lightning arrester

Outdoor High-voltage Disconnect Switch

GW1-12 HV Disconnect Switch

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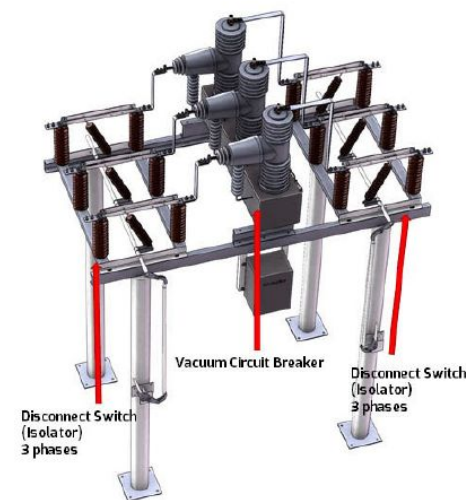
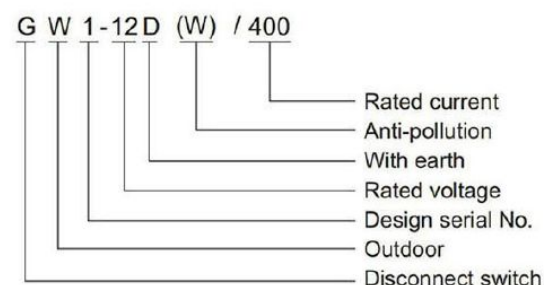
Summary

GW1 outdoor AC high voltage disconnect switch (disconnect switch for short) is used to open and close circuit with voltage but no-load 50/60Hz, 12(40.5)kV power system. It accords with standard: IEC62271-103: High voltage switches. It can be matched with CS□ type manual mechanism to avoid error, there is no necessary to hang an earthing line. There are normal and anti-pollution two types, the anti-pollution type used in serious pollution area.

Ambient condition

1. Altitude: ≤1000m;
2. Ambient temperature: -25℃~+40℃;
3. Applicable occasions should free from inflammable, explosives and severe vibration.

Model



Structure feature

This disconnect switch consists of three single pole switch, each single pole switch have same structure, frame, operating insulating, static contactor, blade, etc, for with earth switch, It can matched with CS□ operating mechanism, for no earth switch, it can matched with CS8-5 operating mechanism accordingly.

When without circuit breaker or circuit breaker was fault, disconnect switch can opening and closing under the condition:

C/O voltage transformer which for metering,

C/O charging current which on busbar facility,

C/O power transformer no load current (power transformer capacity should less than 750kVA).

Technical specification

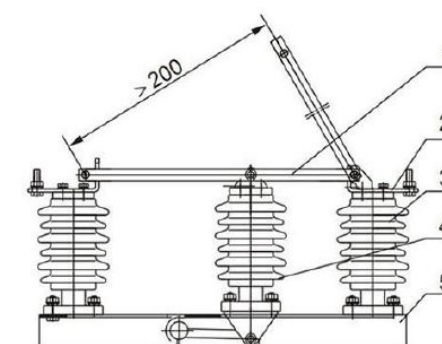
Item	Unit	Data			Note
Rated voltage	kV	12			
Rated current	A	400 630	800 1000	1250	The date of earth switch is same as the main switch
Rated peak withstand voltage	kA	50	63	100	
Rated short-time withstand current	kA/4s	20	25	40	

Outdoor High-voltage Disconnect Switch

GW1-12 HV Disconnect Switch

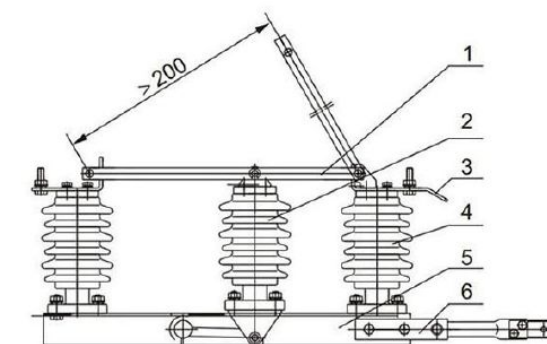
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Outline dimension



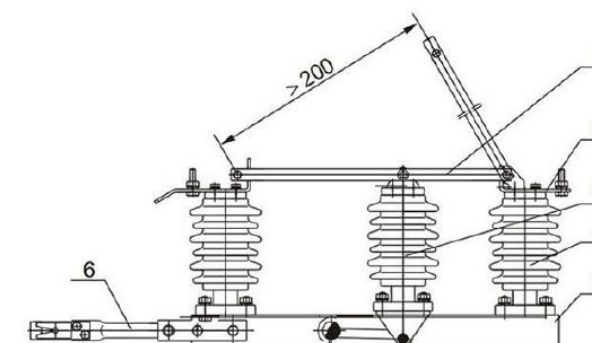
Drawing 1 GW1-12

- 1.Blade 2.Contactor 3.Operating insulator
4.Post insulator 5.Frame



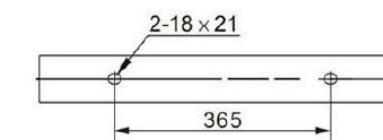
Drawing 2 GW1-12 (D1)

- 1.Blade 2.Operating insulator 3.Contactor
4.Post insulator 5.Frame 6.Earth blade

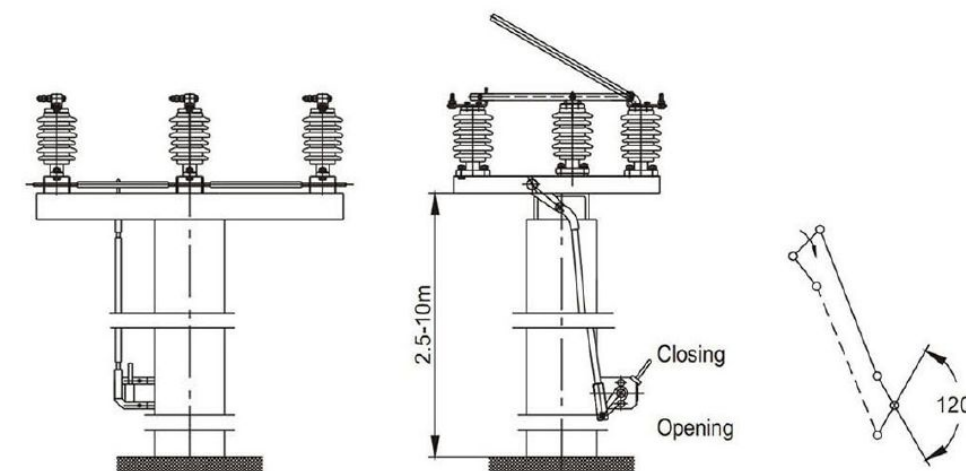


Drawing 3 GW1-12 (D2)

- 1.Blade 2.Operating insulator 3.Contactor
4.Post insulator 5.Frame 6.Earth blade



Drawing 4 Hole dimension



Drawing 5

Outdoor AC High-voltage Disconnect Switch

GWR-12/36(Fuse Type)

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• Meaning of type

G W R - 12(36) / 100



Rated current

Rated voltage

Fuse

Outdoor

Disconnect switch

• Working environment

Altitude: $\leq 1000\text{m}$;
Ambient temperature: $+50^{\circ}\text{C} \sim -30^{\circ}\text{C}$;
Wind speed: $\leq 35\text{m/s}$;
Earthquake intensity: ≤ 8 degree;
Air pollution: IV;
Ice thickness: $\leq 10\text{mm}$;
Applicable occasions of normal type switch should free from chemistry aggradation, dust and other volatile & caustic thing.

• Introduction

GWR-12/36 outdoor AC, high voltage fused type disconnect switch (disconnect switch for short) is used in electric power system with rated frequency 50/60Hz, rated voltage 12/36kV. Its main for making or breaking circuit under line supplying voltage in outdoor high voltage distribution system equipments. There of anti-pollution type disconnect switch is especially used in serious polluted area. It accords with standards of IEC62271-103: High voltage switches.

• Technical data

No.	Item		Unit	Data	
1	Rated voltage		kV	12	36
2	Rated current		A	100	100
3	Rated frequency		Hz	50/60	50/60
4	Maximum breaking current		kA	5	5
5	Main circuit resistance		μ Ω	≤150	≤150
6	1min. PF withstand voltage (dry)	Phase to phase/ earth across open contacts	kV	42/48	95/115
7	1min. PF withstand voltage (wet)			30	85
8	Lightning impulse withstand voltage			95/110	185/215
9	Mechanical life	Disconnect switch	Times	2000	2000
		Fuse cutout		300	300

Outdoor AC High-voltage Disconnect Switch

RGW1-24/36

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• Introduction

RGW1-24/36 Outdoor AC Fuse-Switch Combination Breaker is a new product adopts domestic existing mature breaker switch production experience and fuse protection advanced technology to design and manufacture. the Fuse-Switch Combination breaker is composed of disconnect blade, HRC fuse and operation mechanism, there are merits as strong extinguishing arc ability, reliable performance, long lifetime, small volume, no explosive danger and no pollution to environment.

RGW1-24 Outdoor AC Fuse-Switch Combination Breaker is suitable for 24kV power system with voltage and no load.

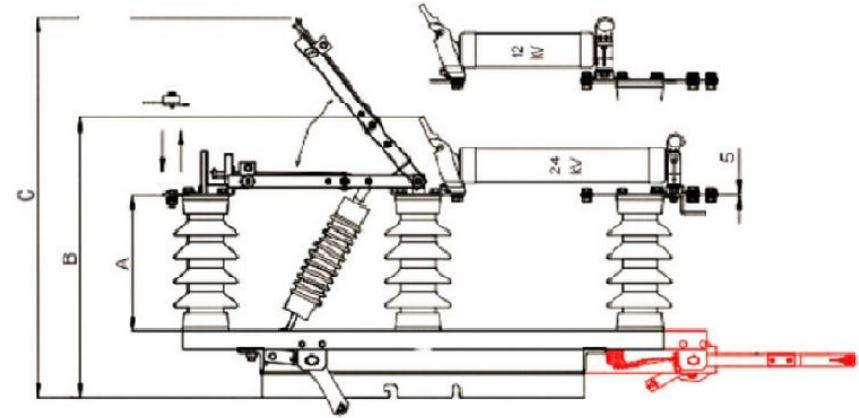
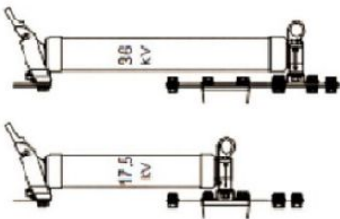
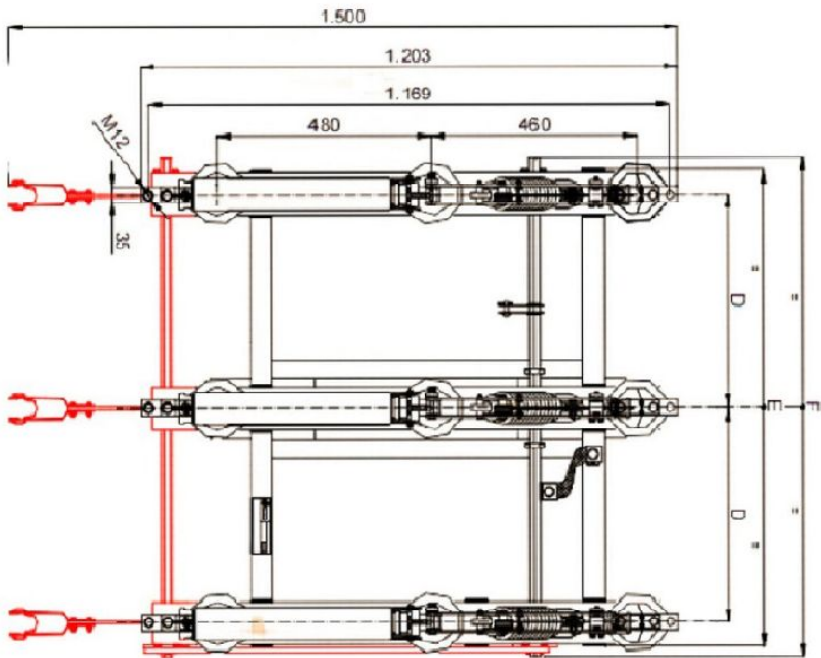
It accords with the standards of IEC62271-102 & GB/T3804:3.6~40.5kV High voltage switches, IEC60694 & GB/T11022: High voltage switch apparatus and control apparatus.

• Technical data

No.	Item	Unit	Data	
1	Rated voltage	kV	12	36
2	Rated current	A	100	100
3	Rated frequency	Hz	50/60	50/60
4	Rated short-time withst and current	KV	25	31.5
5	Rated short-circuit duration	S	3	3
6	Rated active load breaking current	A	200/400/630	200/400/630
7	Rated loop breaking current	A	200/400/630	200/400/630
8	Rated cable charging current	A	12	12
9	5% rated active load breaking current	A	31.5	31.5
10	Rated short-circuit making current	KA	63	63
11	Main loop resistance	$\mu\Omega$	≤ 100	≤ 100
12	power frequency withstand voltage against the earth, between phases	kV rms	50	50
13	power frequency withstand voltage against the isolating distance	kV rms	60	70
14	Lightning impulse withstand voltage against the earth, between phases (peak)	kV	125	170
15	Lightning impulse withstand voltage against the air gap(peak)	kV	145	195
16	Mechanical life	Times	10000	10000
17	Three phase closing asynchronous	ms	≤ 5	≤ 5

Outdoor AC High-voltage Disconnect Switch
RGW1-24/36

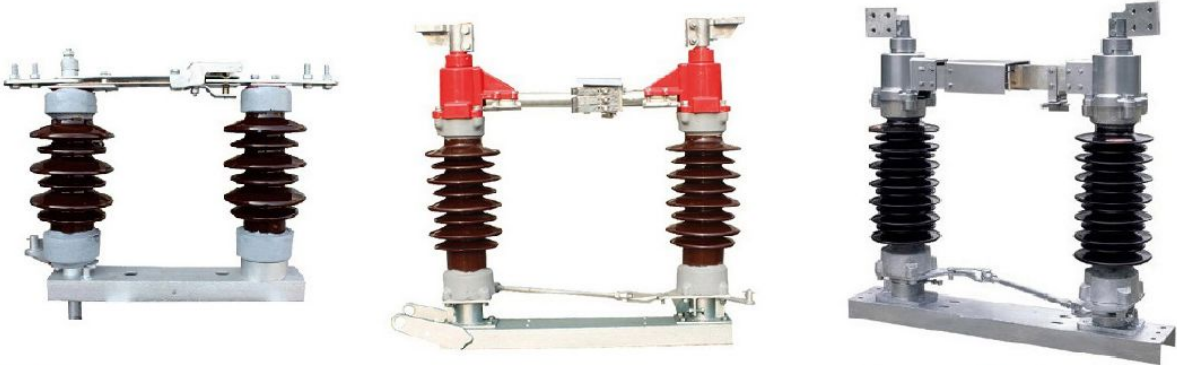
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Dimension(mm)		A	B	C	D	E	F
KV	24	305	635	860	500	1110	1165
	36	445	775	1000	600	1310	1365

Outdoor AC High-voltage Disconnect Switch
(H)GW4-12/15/24/40.5 Outdoor High-voltage Isolating Switch

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Overview

- GW4 outdoor AC isolation switch is a switch for high-voltage line in the no load flow, and the high voltage bus, circuit breakers and other electrical equipment maintenance and high voltage circuit of electrical isolation in. In the main switch in the off position can provide a visible insulation distance safety requirements;
- This product is a double column horizontal open type, main switch points, closing operation, the left, the right to the same side contact should be rotated 90 degrees. The grounding switch is the first rotary, linear insert again to complete the whole process. Current varieties using double conductive system parallel arrangement, increase the flow capacity, reduce the consumption of material. The actuator can adopt manual and electric, manual with CSA mechanism, electric with CJ11 mechanism; GW4 outdoor AC isolation switch is on the basis of the previous Gw4 products, after further improvement and perfection of product improvement, compared with GW4 products in the past, there are many significant improvements, the main knife material with copper, contact a thick silver plating.

Ambient condition

- Altitude: ≤3000m;
- Ambient speed: -25°C ~ +40°C;
- Wind speed: ≤35m/s;
- Pollution degree: ≤III;
- Earthquake intensity: ≤8 degree;
- Applicable occasions should free from inflammable, explosives, caustic gas;
- Standards of IEC62271-103: High voltage switches and GB1985 and other relative standards.

Technical data

序号 No.	名称 Item	单位 Unit	数据 Data		
1	额定电压 Rated voltage	kV	10	15	20
2	最高电压 Maximum voltage	kV	12	17.5	24
3	额定电流 Rated current	kA	400 630 1250		
4	额定热稳定电流 4s (有效值) Rated thermal stability current 4 s (effective)	kA	16	20	31.5
5	额定动稳定电流 (峰值) Rated dynamic stability current (peak)	kA	40	50	80
6	1min 工频耐受电压 (有效值) 1 min Power frequency withstand voltage (valid value)	对地 To earth	42		
		断口 Fracture	50		
7	额定雷电冲击耐受电压 (峰值) Rated lightning impulse withstand voltage (peak)	对地 To earth	75		
		断口 Fracture	85		
8	接线端子额定静拉力 Terminal rated static tension	N	500		

Model	Rated voltage(kV)	Rated current(A)	Withstand current(kA)	4s short-time withstand current(kA)
GW4-40.5 GW4-40.5D	40.5	400	50	20
		630	50	20
		1000	63	25
		1250	80	31.5

Outdoor AC High-voltage Disconnect Switch

GW4-72.5/126/145D[W]Outdoor HV Disconnect Switch

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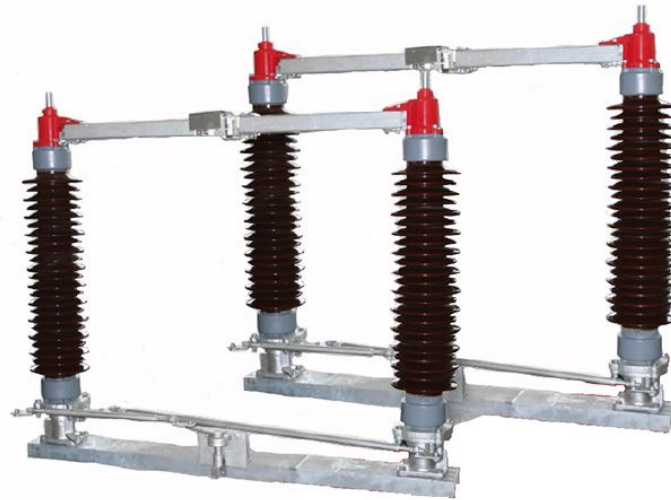
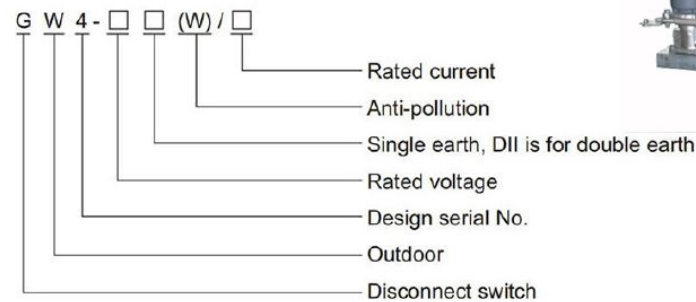
Summary

GW4-72.5/126/145 outdoor high voltage disconnect switch is used to open and close high voltage circuit in rated voltage 72.5/126/145kV, AC 50/60Hz system, the anti-pollution type is especially suitable for serious pollution area. It accords with standards of IEC62271-102: High voltage AC disconnect switch.

Ambient condition

1. Altitude: $\leq 3000\text{m}$;
2. Ambient temperature: $-25^{\circ}\text{C}\sim+40^{\circ}\text{C}$;
3. Wind speed: $\leq 35\text{m/s}$;
4. Earthquake intensity: ≤ 8 degree;
5. Ice thickness: $\leq 10\text{mm}$;
6. Anti-pollution type is especially suitable for serious pollution area;
7. Applicable occasions should be free from inflammable, explosives and severe vibration.

Model



Technical specification

Item		Unit	Data		
Rated voltage		kV	72.5	126	145
Rated current		A	630 1250 1600 2000		
Rated peak withstand current		kA	63 80 100		
4s short-time withstand current			25 31.5 40		
Rated short-time withstand time		s	3/4		
Rated power frequency		Hz	50/60		
1min power frequency withstand voltage	phase to earth	kV	160	230	275
	across open contacts		200	230+70	315
Lightning impulse withstand voltage(peak)	phase to earth		350	550	650
	across open contacts		410	550+100	750
Main loop resistor	630A	uΩ	≤200	≤225	≤250
	1250A		≤125	≤150	≤175
	1600A		≤80	≤120	≤125
	2000A		≤80	≤120	≤125
Main blade open contacts			≥900	≥1200	≥1500
Single phase weight			250	300	350
Mechanical steady operating times			2000		
Operating mechanism type	main blade		CJ6B or CS17		
	earth blade		CS17		

Outdoor AC High-voltage Disconnect Switch

GW4-72.5/126/145D[W]Outdoor HV Disconnect Switch

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Item	Unit	CJ6B motor	CS17 manual		
Main axes output angle	°	90	90		
Rated output angle	N.m	500			
Motor power	W	370			
Motor voltage	V	AC380, DC220V			
Motor rated current/ start current	A	1.3/4			
Motor rotate speed	r/min	1440			
Control voltage	V	AC220, DC220V			
Anti-pollution degree		IP54	IP54		
Mechanical life	Times	10000	10000		
Contact of auxiliary switch	pare	10NO+10NC	4NO+4NC, 8NO+8NC		
Opening/closing time	s	5 ± 1			
Weight	kg	90	without earth	single earth	double earth switch
			15	20	30

Operating mechanism

GW4 disconnect switch with CS17 manual operating mechanism is made of frame, auxiliary switch and handle, weight is about 15kg.

GW4 disconnect switch with CJ6B motor operating mechanism is made of stainless steel cubicle, mechanism and secondary control part auxiliary switch and handle, it have features of low noise, steady driving, easy operating, free maintenance.

Disconnect switch can match with motor or manual operating mechanism.

Mechanism box can match with DSW4 electromagnetism lock to make sure anti-failure operating.

Structure feature

Disconnect switch is made of pedestal, post insulator and electric part. The pedestal of bearing adopts two whole sealing structure of frame oil sealed. There is mechanical interlock device between the main blade and the earthing blade to ensure operation follows the prescribed procedure (main open-earth close-earth open-main close). During operation mechanism operation, it drives the post insulator move 90° , the other post insulator move 90° through the cross rod to make sure opening and closing exactly.

Product feature

1. Advanced driving struction

1.1 Driving part adopt composite axis cover of self-lubricate, no need to add lubricating oil. Axis pin and a xis is made of stainless steel or alum bronze and have features of high precision and antirust.

1.2 Framework seal structure for axis base, it's sealed both for upper and underside, molybdenum for lubricant grease, no volatilization, and non-maintenance.

1.3 O/C position-limited reliable.

1.4 It adopt adjustable hoop connection for mechanism output axis with switch driving axis, no need jointing and easy connection.

2. Well anti-rust performance

2.1 Different parts have different anti-rust method, hot-galvanized, hot extrusive zinc or painting.

2.2 Standard equipment is made of stainless steel or hot-galvanized, stainless steel for below M10 fixing equipment, hot-galvanized for other parts.

3. Credible main electric system

3.1 Contact finger silver-gilt thickness $\geq 30\mu\text{m}$, hardness ≥ 120 Vickers.

3.2 Electric loop almost adopt fixing connection and can improve electric stability and reliability.

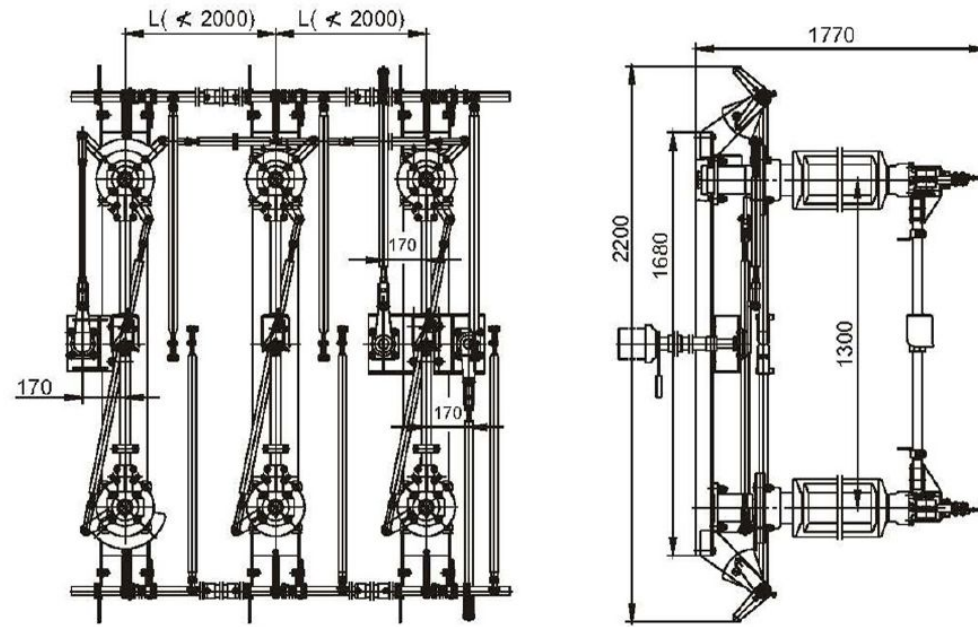
3.3 Self force type contact can be chosen by users, it's made of chrome, it make use of flexibility of contact finger and electric power to make contact electric well for electric loop all the time and avoid over-heater.

Outdoor AC High-voltage Disconnect Switch

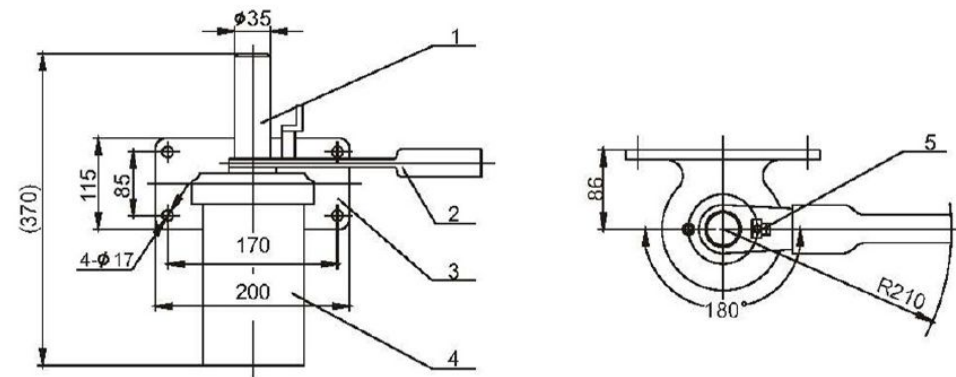
GW4-72.5/126/145D[W]Outdoor HV Disconnect Switch

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Outline dimension

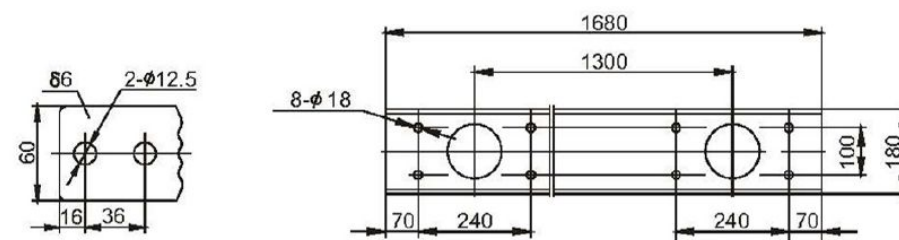


Drawing 1 GW4-126/145 DII (double earth)

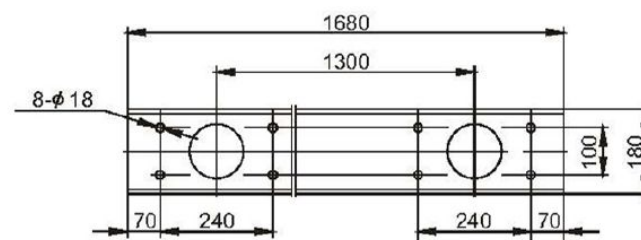


1.Rotating shaft 2.Handle 3.Frame 4.Cover 5.Lock

Drawing 2 CS14 Outline drawing



Drawing 3 Connection plate dimension

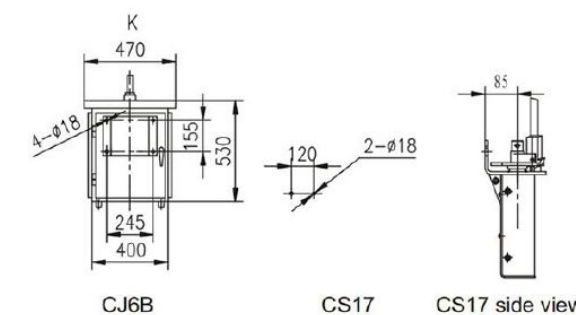
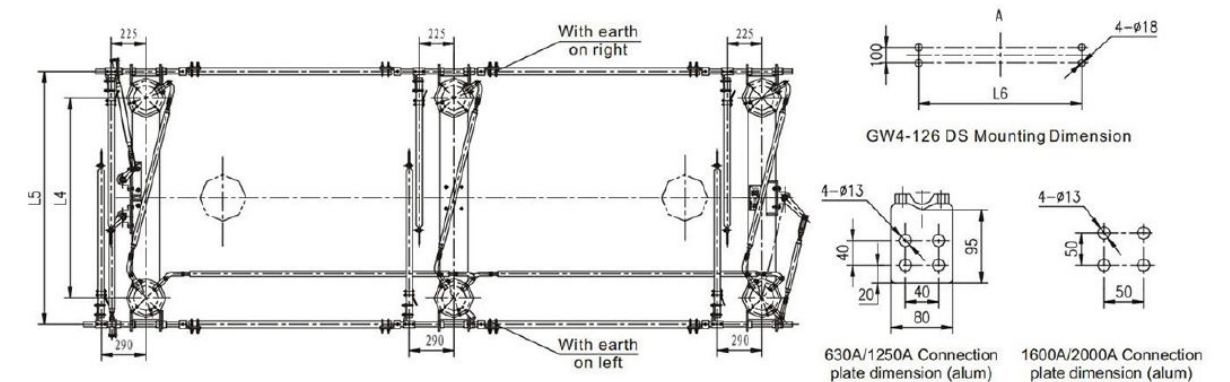
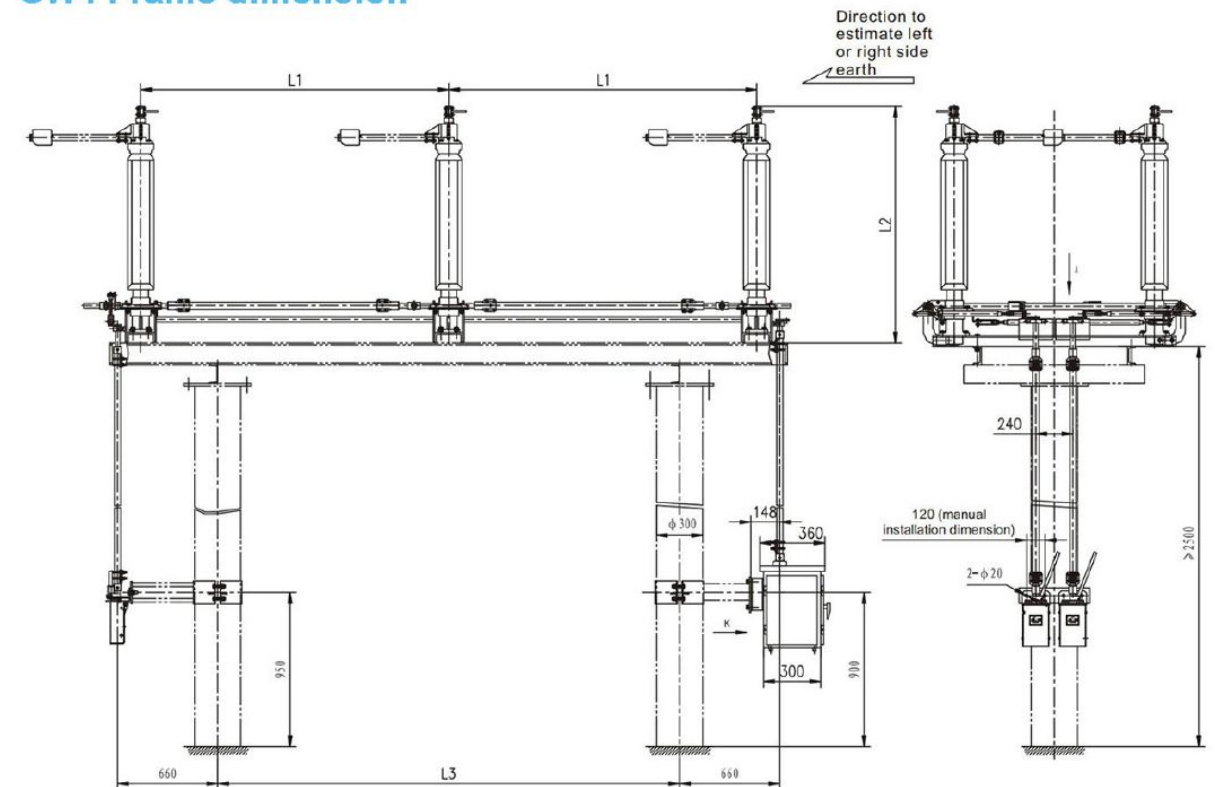


Drawing 4 Frame dimension

Outdoor AC High-voltage Disconnect Switch

GW4-72.5/126/145D[W]Outdoor HV Disconnect Switch

GW4 Frame dimension



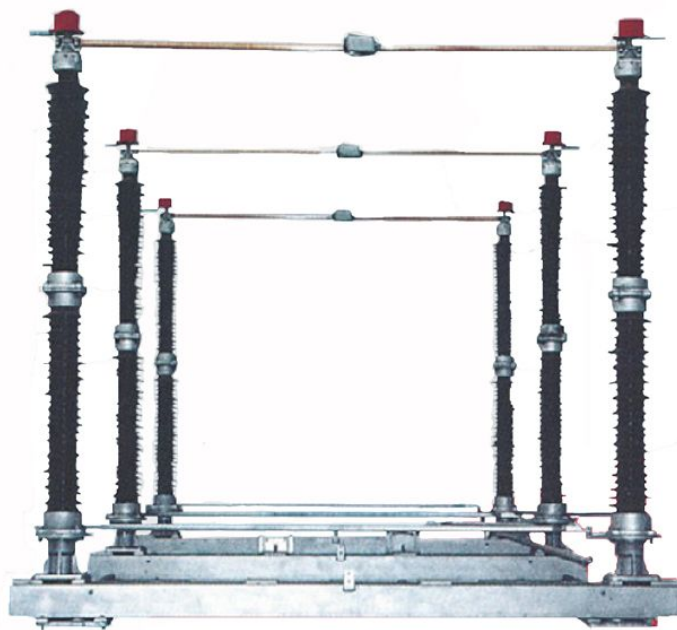
- 1.CJ6B motor mechanism weight and output moment: 90kg/500N.M(main blade)
- 2.CS17 manual mechanism weight and operating force:15kg/≤200N.
- 3.Single phase windward acreage:0.5m²
- 4.Barycenter height:600mm

Item	L1	L2	L3	L4	L5	L6
145kV with earth	2500	1835	4000	1600	2500	1360
145kV without earth	2500	1835	4000	1600	2500	1360
126kV with earth	2000	1535	3000	1300	2000	1060
126kV without earth	2000	1535	3000	1300	2000	1060
72.5kV with earth	1700	1120	2400	1000	1700	760
72.5kV without earth	1700	1120	2400	1000	1700	760

Drawing 1 GW4-126/145 Outdoor HV disconnect switch
(main blade with CJ6B mechanism, earth blade with CS17 mechanism)

Outdoor High-voltage Disconnect Switch

GW4-252 Outdoor Disconnect Switch

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Product Overview

The complete disconnecting switch consists of GW4-252(D)(W) type disconnecting switch body, CS14G or CS17G type manual operating mechanism, transmission accessories, etc. It can also be equipped with CJ6 type and other electric mechanisms. The disconnecting switch is double-post horizontal opening type. Each single pole part is composed of base, post insulator, an outlet seat and a contact. The two post insulators are installed parallel to each other on the bearings at both ends of the base and are perpendicular to the base. The main conductive parts are respectively installed above the two insulators and rotate about 90° with the post insulators. The bearing seat of the disconnecting switch is designed as a fully sealed structure, which can prevent the jam caused by dust, moisture, and harmful gas entering the bearing seat; the bearing seat is equipped with thrust ball bearings and radial ball bearings to separate the gravity and level of the disconnecting switch. The force is borne by these two special bearings, so that the operating torque of the disconnecting switch will not increase after long-term operation. Each pole and two shaft assembly rooms are connected and driven by connecting plates, adjusting screws, etc. It adopts stainless steel shaft pin and self-lubricating shaft sleeve, and the lubricant is high-efficiency lithium molybdenum disulfide greas. The copper braid in the outlet seat is fastened to the conductive rod and the wiring board respectively, and the wiring board is used for users to connect the circuit.

The contact fingers of the middle contact part are assembled in pairs, and the contact fingers clamp the contact finger seat and the contact head by the spring to achieve the wear between the contact head and the contact finger and increase the service life. When the disconnecting switch is equipped with a grounding switch, the interlocking of the main conductive circuit and the grounding switch is guaranteed by the sector plate and arc plate on the base. When the main conductive circuit is closed, the grounding switch cannot be closed. When the grounding switch is closed, The main conductive circuit cannot be closed.

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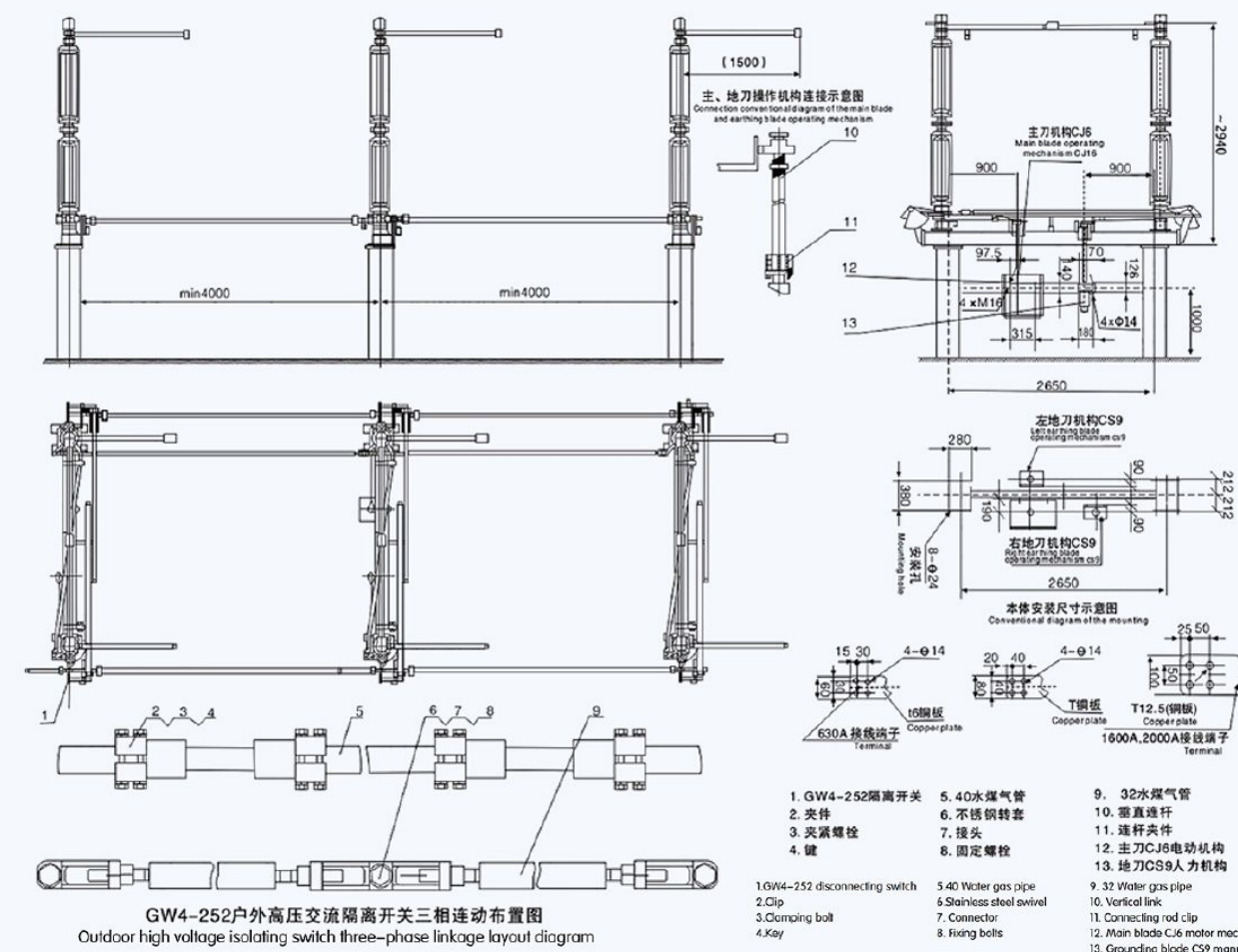
Outdoor High-voltage Disconnect Switch

GW4-252 Outdoor Disconnect Switch

Main Technical Parameters

序号 No.	名称 Item		单位 Unit	数据 Data
1	额定电压 Rated voltage		kV	252
2	额定绝缘水平 Rated insulation level	1min 工频耐受电压（有效值） 1 min Power frequency withstand voltage (valid value)	对地 To earth kV	460
			断口 Fracture kV	460+145
		额定雷电冲击耐受电压（峰值） Lightning impulse withstand voltage (peak)	对地 To earth kV	1050
			断口 Fracture kV	1050+200
3	额定频率 Rated frequency		Hz	50
4	额定电流 Rated current		A	1250 1600 2000 2500
5	额定短时耐受电流 Rated short-time withstand current		kA	31.5 40 50 50
6	额定峰值耐受电流 Rated peak withstand current		kA	80 100 125 125
7	额定短时耐受电流持续时间主刀 / 地刀 Rated short time withstand current duration main blade/grounding blade		s	3/2
8	额定端子机械负荷 Rated terminal mechanical load	水平纵向负荷 Horizontal longitudinal load	N	1500
		水平横向负荷 Horizontal lateral load	N	1000
		垂直力 Vertical force	N	1250
9	爬电距离 Creepage distance		mm	5040 6300 7812
10	机械寿命 Mechanical life		次 Times	10000
11	电动机操动机构 Motor operating mechanism	型号 Model NO.		CJ6B
		电机电压 Motor voltage	V	AC380、AC220、DC220、DC110
		控制回路电压 Controlling circuit voltage	V	AC220、AC380、DC220、DC110
		分、合闸时间 Opening and closing time	s	8 ± 1
12	人力操动机构 Manual operating mechanism	型号 Model NO.		CS9、CS14G、CS17G
		电磁锁电压 Electromagnetic lock voltage	V	AC220、DC220、DC110

Appearance And Installation Dimensions



Outdoor AC High-voltage Disconnect Switch

GW5-40.5/72.5/126/145/252 Outdoor HV Disconnect Switch

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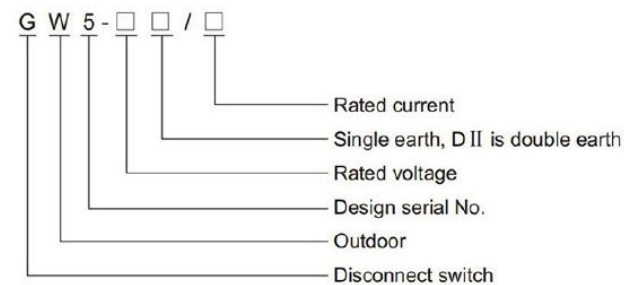
Summary

GW5-40.5/72.5/126/145 outdoor high voltage disconnect switch is used to make or break high voltage circuit in rated voltage 40.5kV, 72.5kV, 126/145kV, AC 50/60Hz system. It is able to open and close small capacitance and inductive current. This disconnect switch accords with standards: IEC62271-103 High voltage switches, GB1985: AC High voltage disconnect switch and earthing switch and IEC60694 & GB/T11022: Common technical requirements of HV switchgear and control equipment.

Ambient condition

1. Altitude: $\leq 1000\text{m}$;
2. Ambient temperature: $-40^{\circ}\text{C}\sim+40^{\circ}\text{C}$;
3. Wind speed: $\leq 34\text{m/s}$;
4. Pollution degree: $\leq \text{III}$;
5. Earthquake intensity: ≤ 8 degree;
6. Ice thickness: $\leq 10\text{mm}$.

Model



Structure feature

Disconnect switch is made up of three single phase, V type for each phase, symmetrical angle is 50° , disconnect switch is made of pedestal, post insulator and electric part. For disconnecter with earth switch, it also have male and female contact, blade, driving parts and interlock plate. Main blade with CJ6 motor or CS17 manual operating mechanism, earth blade can be match with CS17 manual operating mechanism. There are different installation method contain obverse, side, diagonal and reversal, etc. also it can be used for outdoor and indoor, the installation method can be according to the user's requirement.

Technical specification

Item	Unit	Data			
Rated voltage	kV	40.5	72.5	126	145
Rated current	A	630	1250	1600	2000
Rated peak withstand current	kA	63	80	100	
4s short-time withstand current		25	31.5	40	
Rated short-time withstand time	s	3/4			
Rated power frequency	Hz	50/60			

Outdoor AC High-voltage Disconnect Switch

GW5-40.5/72.5/126/145/252 Outdoor HV Disconnect Switch

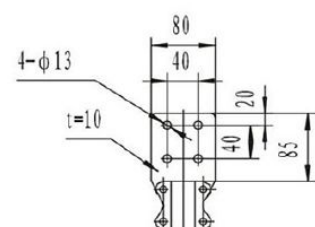
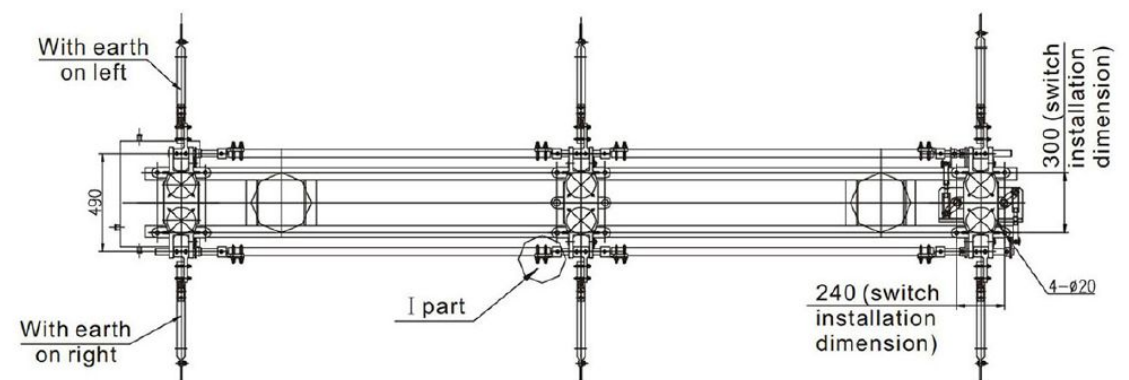
• Technical data

Item			Unit	Parameter			
Rated voltage			kV	40.5	126	252	
Rated insulation level	1min power frequency withstand voltage	To the earth	KV	95	230	460	
		Interrupter	KV	115	245	460+145	
	Rated lightning impulse withstand voltage(peak)	To the earth	KV	185	550	1050	
		Interrupter	KV	215	630	1050+200	
Rated frequency			Hz		50		
Rated current			A	630	1250	1600	2000
Rated short-time withstand current			kA	20	31.5	40	40
Rated peak withstand current			kA	50	80	100	100
Rated short-circuit duration knife/Sword			S	4/2			
Rated mechanical terminal load	Horizontal and vertical load		N	750	1000		
	The horizontal load		N	500	750		
	Vertical force		N	750	1000		
Creepage distance			mm	1013-1256	1813-2248	3150-3906	
The life of the machine			Times	2000			
Human actuator	Model			CD17,CS17G			
	Voltage control loop		V	AC220,DC110,DC220			
Motor actuator	Model			CJ6			
	Motor voltage		V	AC220,AC380,DC220			
	Voltage control loop		V	AC220,AC380,DC220			
	Closing time		s	6 ± 1			
	Production weight	Not grounding		kg	360	500	800
Single ground		kg	390	560	900		
Double ground		kg	430	620	1000		

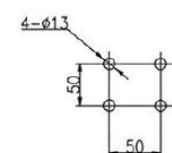
Outdoor AC High-voltage Disconnect Switch

GW5-40.5/72.5/126/145/252 Outdoor HV Disconnect Switch

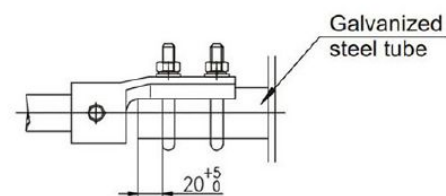
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630A/1250A Connection plate dimension (alum)

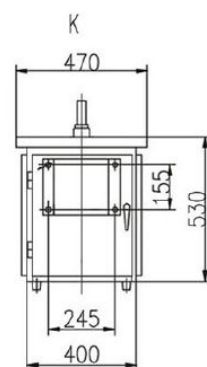


1600A/2000A Connection plate dimension (alum)

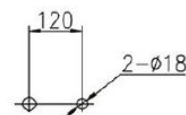


I part blown-up scale: 5:1

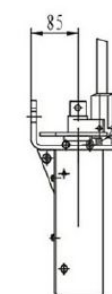
- 1.CJ6B motor mechanism weight and output moment: 90kg/500N.M(main blade)
- 2.CS17 manual mechanism weight and operating force: 15kg/≤200N.
- 3.Single phase windward acreage: 0.5m²
- 4.Barycenter height: 600mm



CJ6B



CS17



CS17 side view

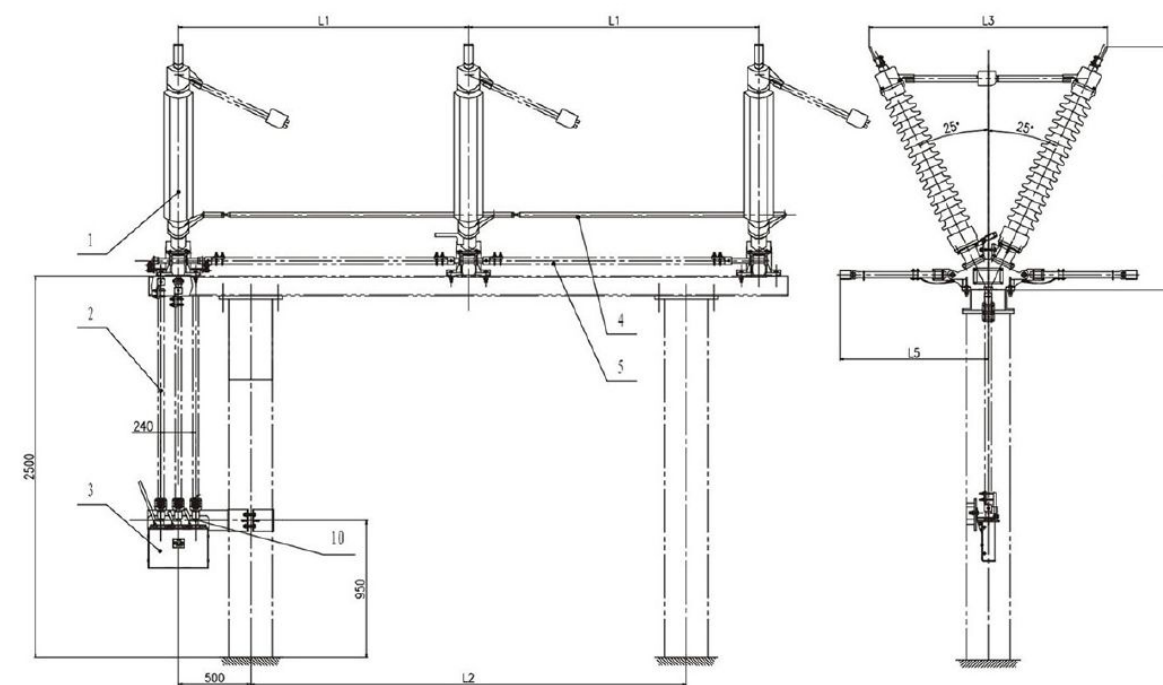
Item	L1	L2	L3	L4	L5
145kV with earth	2500	4000	1820	1860	1840
145kV without earth	2500	4000	1820	1860	
126kV with earth	2000	3000	1660	1680	1640
126kV without earth	2000	3000	1660	1680	
72.5kV with earth	1700	2400	1290	1300	1215
72.5kV without earth	1700	2400	1290	1300	

Drawing 1 GW5-⁶³⁰_{72.5/126/145/1600/2000} Outdoor HV disconnect switch
(main blade with CJ6B mechanism, earth blade with CS17 mechanism)

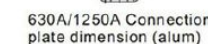
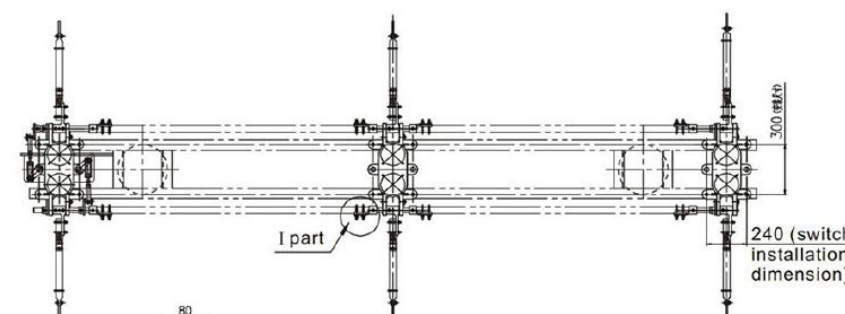
Outdoor AC High-voltage Disconnect Switch

GW5-40.5/72.5/126/145/252 Outdoor HV Disconnect Switch

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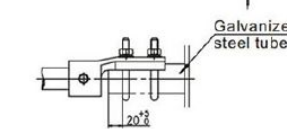
- 1.Switch
- 2.Vertical connection bar
- 3.CS17 manual operating mechanism
- 4.Horizontal connection bar
- 5.Horizontal connection bar for earth switch



630A/1250A Connection plate dimension (alum)



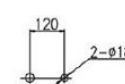
1600A/2000A Connection plate dimension (alum)



I part blown-up scale: 5:1

- 1.CS17 manual mechanism weight and operating force: 15kg/≤200N.
- 2.Single phase windward acreage: 0.5m²
- 3.Barycenter height: 600mm

Item	L1	L2	L3	L4	L5
145kV with earth	2500	4000	1820	1860	1840
145kV without earth	2500	4000	1820	1860	
126kV with earth	2000	3000	1660	1680	1640
126kV without earth	2000	3000	1660	1680	
72.5kV with earth	1700	2400	1290	1300	1215
72.5kV without earth	1700	2400	1290	1300	



CS17



CS17 right side

Drawing 2 GW5-⁶³⁰_{72.5/126/145/1600/2000} Outdoor HV disconnect switch
(main blade and earth blade both with CS17 mechanism)

Outdoor High-voltage Disconnect Switch

GW7-126 Outdoor Disconnect Switch

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Product Overview

GW7-126 disconnecting switch is a three-phase AC 50Hz outdoor high-voltage AC electrical appliance, used in a 220kV power system with a rated voltage. It is used for high-voltage lines to switch lines under no current- carrying conditions, and for the maintenance of high-voltage buses, circuit breakers and other electrical equipment and live High-voltage lines are electrically isolated to provide a visible insulation distance that meets the requirements for the equipment and maintenance personnel to be inspected to ensure the safety of maintenance personnel. The product complies with GB1985 and IEC62271-102 standards.

Working Environment

1. The altitude does not exceed:2000m
2. Ambient temperature:-40℃~+40℃
3. Maximum wind speed:34m/s
4. Anti-seismic ability: horizontal acceleration: 0.250g;vertical acceleration: 0.125g
5. The thickness of icing does not exceed 10mm
6. Insulator pollution level: III(25mm/kV), IV(31mm/kV)
7. There should be no flammable, explosive,chemical corrosion and other harmful substances in the installation site, and there should be no frequent and severe vibrations

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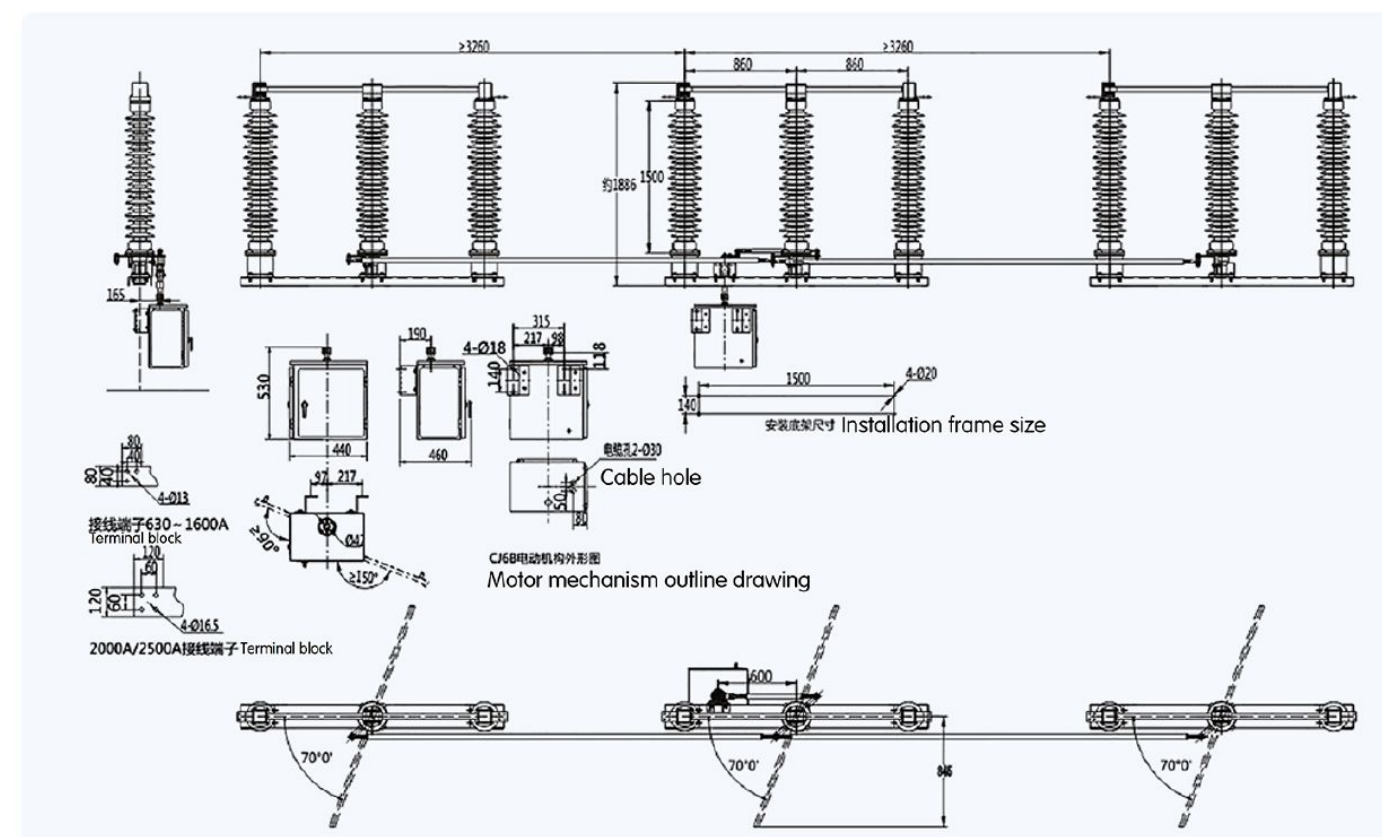
Outdoor High-voltage Disconnect Switch

GW7-126 Outdoor Disconnect Switch

Main Technical Paramenters

序号 No.	名称 Item	单位 Unit	数据 Data
1	额定电压 Rated voltage	kV	126
2	额定电流 Rated current	A	5000
3	额定峰值耐受电流 (峰值) Rated peak withstand current (peak)	kA	160
4	3s 额定短时耐受电流 (有效值) 3s rated short-time withstand current (valid value)	kA	63
5	额定频率 Rated frequency	Hz	50
6	接地开关	额定峰值耐受电流 (峰值) Rated peak withstand current (peak)	kA 160
	Grounding switch	3s 额定短时耐受电流 (有效值) 3s rated short-time withstand current (valid value)	kA 63
7	接线端子额定拉力 Terminal rated pull force	纵向 Longitudinal	N 1500
		横向 Horizontal	N 1000
		垂直 Vertical	N 1250
8	额定绝缘水平 Rated insulation level	额定短时工频耐受电压 (有效值) Rated short-time withstand current (valid value)	对地 To earth kV 460
		雷电冲击耐受电压 (峰值) Lightning impulse withstand voltage (peak)	断口 Fracture kV 460+145
			对地 To earth kV 1050
		断口 Fracture	kV 1050+200
9	接地开关感应电流开合能力试验 Grounding switch induced current switching capability test	电磁耦合 Electromagnetic coupling	额定感应电流 Rated inductive current A 80
		电磁耦合 Electromagnetic coupling	额定感应电压 Rated inductive voltage kV 2
		静电耦合 Electrostatic coupling	额定感应电流 Rated inductive current A 3
			额定感应电压 Rated inductive voltage kV 12
10	支柱绝缘子爬电比距 Post insulator creeping ratio distance	III	mm/kV 25
		IV	mm/kV 31
11	机械寿命 Mechanical life	次 Times	3000
12	隔离开关回路电阻 Disconnecting Switch Circuit Resistance	μΩ	50
13	开合母线转换电流 Open and close bus conversion current	A	1600
14	单极重量 Single pole weight	kg	1020

Appearance And Installation Dimensions



Outdoor AC High-voltage Disconnect Switch

GW7-252 Outdoor HV Disconnect Switch

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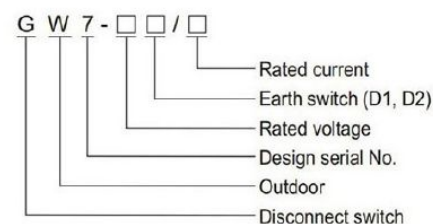
Summary

GW7-252 outdoor AC high voltage disconnect switch is used to open and close high voltage circuit in rated voltage 252kV, 50/60Hz power system. It can be used with motor operating mechanism and manual operating mechanism. It accords with the standards of IEC 62271-102 and GB1985-2004: AC high voltage disconnect switch and earthing switch.

Ambient condition

1. Altitude: $\leq 2000\text{m}$;
2. Ambient temperature: $-40^{\circ}\text{C}\sim+40^{\circ}\text{C}$;
3. Wind speed: $\leq 34\text{m/s}$;
4. Earthquake intensity: ≤ 8 degree;
5. Ice coverage thickness: $\leq 10\text{mm}$;
6. Pollution degree: I, II, III, IV;
7. Applicable occasions should be free from inflammables and frequent severe vibration.

Model



Product feature

GW7-252 disconnect switch is a three pole structure, contain frame, post insulator and conduct parts, three post insulator for each pole, revolving post on the centre axis frame, conduct knife fixed on the centre revolving post insulator, when operating mechanism working, it can drive revolving insulator revolving 71° to finish opening and closing operating. There is an interlock between disconnect switch and earth switch.

Technical specification

No.	Item	Unit	Data
1	Rated voltage	kV	252
2	Rated current	A	2000, 2500, 3150, 4000
3	Rated peak withstand current	kA	125 160
4	Rated short-time withstand current (with earth switch)	kA	50 63
5	Rated short-time withstand time	s	3
6	1 min P.F.withstand voltage	kV	To phase 460
7			Across open contact 460+145
8	Rated lightning impulse withstand voltage	kV	To phase 1050
9			Across open contact 1050+200
10	Weight for single pole	kg	500
	Mechanism operating times	times	3000
	Mechanism type		Main blade CJ6A
			Earth blade CSA

Outdoor AC High-voltage Disconnect Switch

GW7-252 Outdoor HV Disconnect Switch

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Item	Unit	CJ6B motor	CS17 manual
Main axes output angle	$^{\circ}$	180	90
Rated output angle	N.m	1200	
Motor power	W	750	
Motor voltage	V	AC380, DC220V	
Motor rated current/ start current	A	1.3/4	
Motor rotate speed	r/min	1440	
Control voltage	V	AC220, DC220	
Anti-pollution degree		IP54	IP54
Mechanical life	times	10000	10000
Contact of auxiliary switch	pare	10NO+10NC	4NO+4NC, 8NO+8NC
Opening/closing time	s	5 ± 1	30
Mechanism weight	Kg	90	

Operating mechanism

GW7-252 disconnect switch is made of frame, post insulator and electric parts, each pole have three insulation post, revolving pole installed on the center revolving axis base. Electric blade fixed on the center revolving post insulator. Operating mechanism driving post insulator revolving 71° to finish closing. There is mechanism interlock during disconnect switch with earth switch.

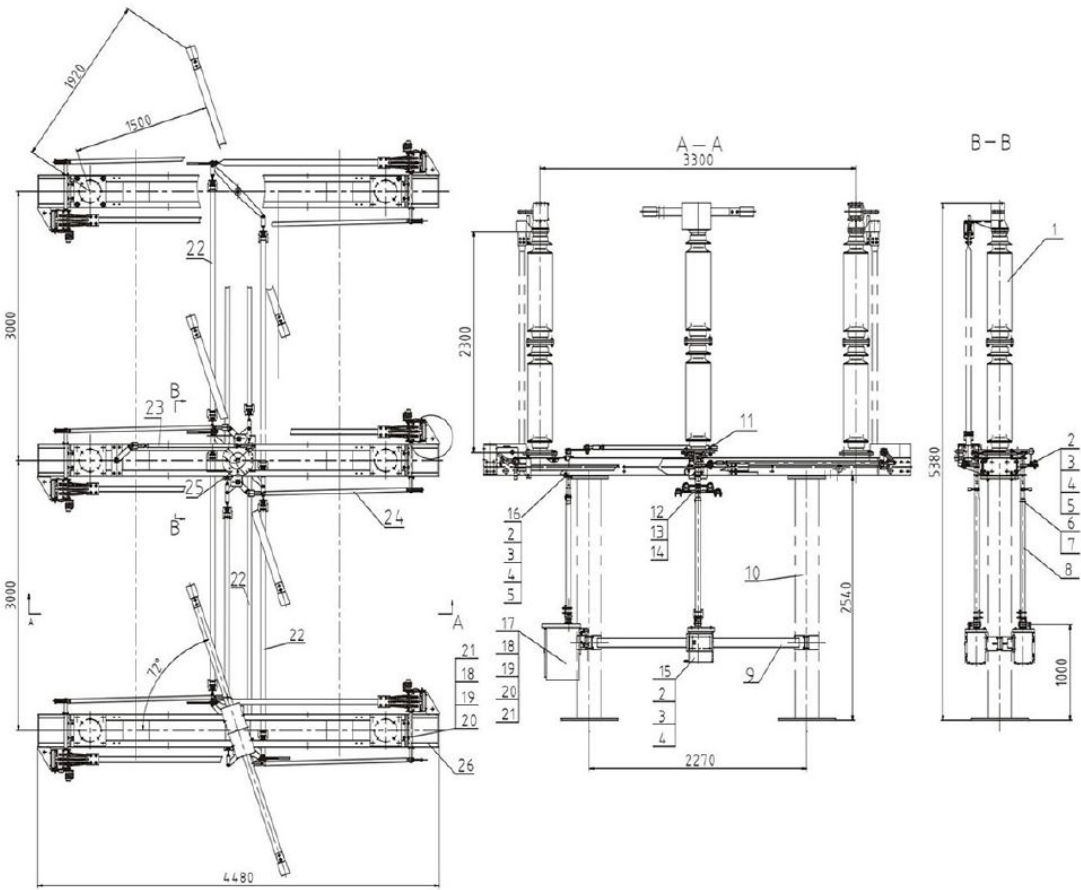
Operating principle

1. Advanced driving strcuture
 - 1.1 Driving part adopt composite axis cover of self-lubricate, no need to add lubricating oil. Axis pin and axis is made of stainless steel or alum bronze and have features of high precision and antirust.
 - 1.2 Framework seal structure for axis base, it's sealed both for upper and underside, molybdenum for lubricant grease, no volatilization, and non-maintenance.
 - 1.3 O/C position-limited reliable.
 - 1.4 It adopt adjustable hoop connection for mechanism output axis with switch driving axis, no need jointing and easy connection.
 - 1.5 It revolving 71° horizontal, then overturn 45° to make sure contact finger with contactor reliable, this can make operating slightly and strcuture reasonable.
2. Well anti-rust performance
 - 2.1 Different parts have different anti-rust method, hot-galvanized, hot extrusive zinc or painting.
 - 2.2 Standard equipment is made of stainless steel or hot-galvanized, stainless steel for below M10 fixing equipment, hot-galvanized for other parts.
3. Credible main electric system
 - 3.1 Contact finger silver-coating thickness $\geq 30\mu\text{m}$, hardness ≥ 120 Vickers.
 - 3.2 Electric loop almost adopt fixing connection and can improve electric stability and reliability.
 - 3.3 Outer-press type contactor, the material is copper, outer-press spring structure, insulation equipment between contact finger and spring can avoid spring diffulence and avoid overheat for contact.



Outdoor AC High-voltage Disconnect Switch
GW7-252 Outdoor HV Disconnect Switch

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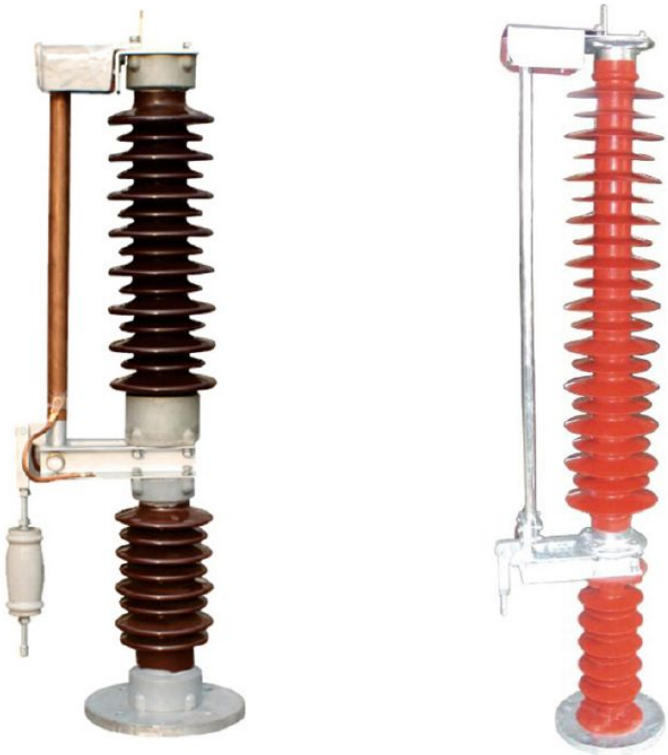


1	2HY33.055.020	Single-phase assembly of main blade	3	
2	GB/T 5783	Hexagon bolt M12*14	32	Hot-galvanization
3	GB/T 95	Flat pad 12	56	Hot-galvanization
4	GB/T 93	Elastic pad12	32	Hot-galvanization
5	GB/T 41	Hexagon nut M12	32	Hot-galvanization
6	GB/T 882	Pin shaft with hole 12(HY331)*65	3	Stainless steel
7	GB/T 91	Cotter pin 4*25	3	Stainless steel
8	8HY33.175.011	Mechanism vertical output shaft	3	
9	5HY33.044.006	mechanism frame welding assembly	1	
10	5HY33.040.008	pole welding assembly	6	
11	5HY33.266.004	Earthing transitional device	6	
12	5HY33.232.005	Double po-arm	3	
13	GB/T 8791	Cylindrical pin 10*55	3	Stainless steel
14	GB/T 8791	Cylindrical pin 6*55	3	Stainless steel
15	CS	Manual actuating mechanism	2	Output angle 90°
16	5HY33.266.005	Transitional device of disconnect switch	1	
17	CJ	Motor actuating mechanism	1	Output angle 90°
18	GB/T 5783	Hexagon bolt M16*60	28	Hot-galvanization
19	GB/T 95	Flat pad 16	56	Hot-galvanization
20	GB/T 93	Elastic 16	28	Hot-galvanization
21	GB/T 41	Hexagon nut M16	28	Hot-galvanization
22	5HY33.233.053	Rod assembly between phases	4	
23	5HY33.233.051	Disconnect switch driving rod assembly	1	
24	5HY33.233.052	Earthing driving rod assembly	6	
25	8HY33.100.349	Interlocking panel	2	
26	5HY33.022.024	Single-pole assembly of earthing blade	6	

GW7-252D2/4000A Installation drawing (CJ6A main blade, CSA earthing blade)

Outdoor AC High-voltage Disconnect Switch
GW8-40.5/72.5/126(W)Outdoor HV Isolating Switch

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• Introduction

• This disconnecter consists of post insulator,porcelain insulator and conductive parts. There are static contact and busbar junction panel on the top of post insulator,and there are metal base, operating crank arm and operating insulator between post insulator and porcelain insulator base.The male contact is mounted on the base,and the CSB -5 manual operating mechanism connects with the male contact through the connecting bar,operating insulator and crank arm-It also can match with CJ6 dynamoelectric operating mechanism.

• Meaning of type



• Order notice

- Type and specification of the outdoor disconnecter
- Working environment(ambient temperature,altitude,dirtiness level)
- Type of operating mechanism
- Name and quantity of the accessories and tools if required.(deal separated with disconnecter)

Outdoor AC High-voltage Disconnect Switch

GW8-40.5/72.5/126(W)Outdoor HV Isolating Switch

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• Technical data

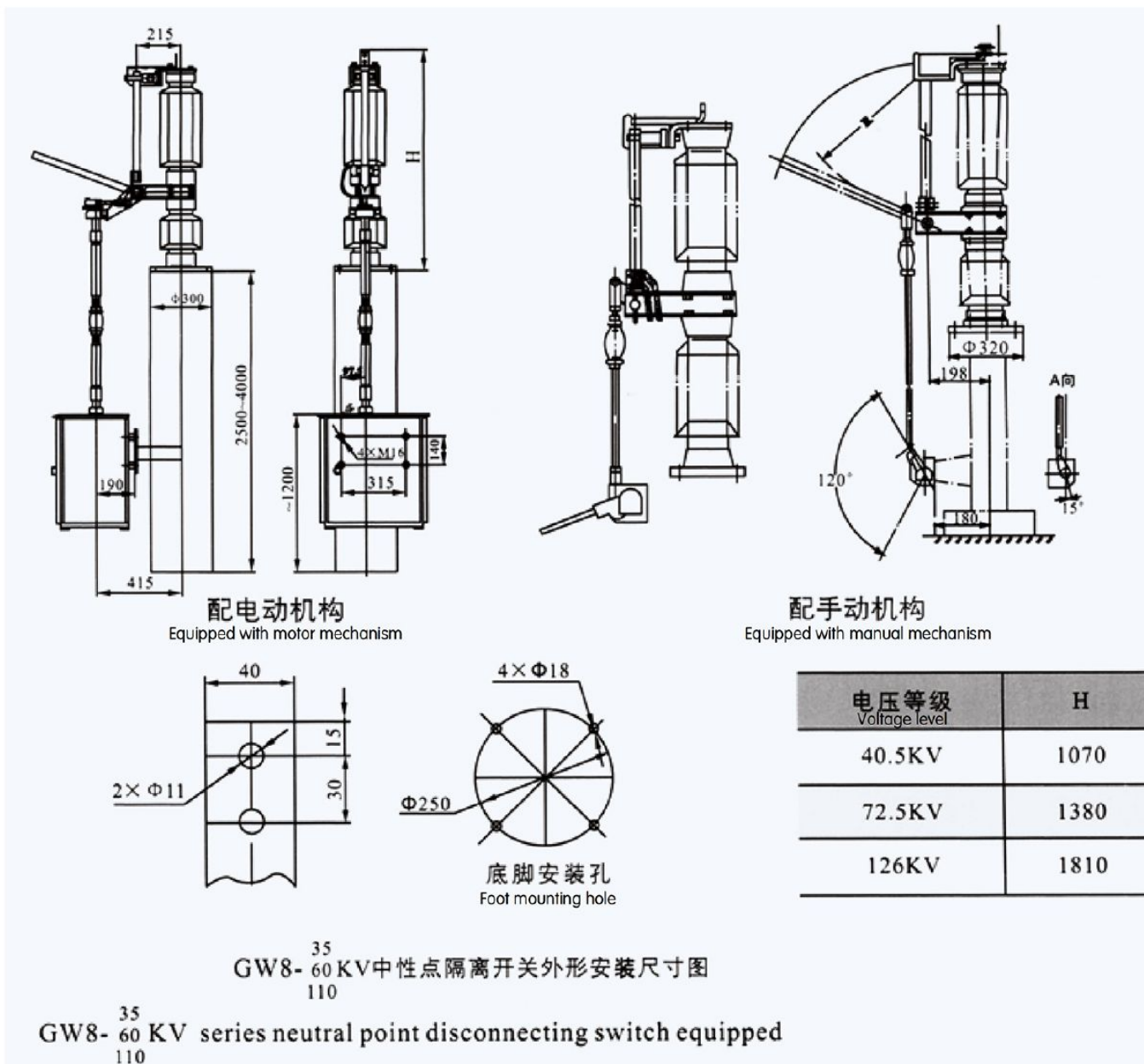
Item			Unit	Parameter		
Rated voltage			kV	40.5	72.5	126
Rated insulation level	1min power frequency withstand voltage	To the earth	kV	95	160	230
		Interrupter	kV			
	Rated lightning impulse withstand voltage(peak)	To the earth	kV	185	350	550
		Interrupter	kV			
Rated frequency			Hz	50		
Rated current			A	630		
Rated short-time withstand current			kA	8		
Rated peak withstand current			kA	20		
Rated short-circuit duration knife/Sword			S	3		
Rated mechanical terminal load	Horizontal and vertical load		N	750		
	The horizontal load		N	500		
	Vertical force		N	750		
Creepage distance			mm	1013、1256、1813、2284、3150		
The life of the machine			Times	10000		
Motor actuator	Model			CJ6B		
	Motor voltage		V	AC380、AC220、DC220、DC110		
	Voltage control loop		V	AC380、AC220、DC220、DC110		
	Closing time		s	6 ± 1		
Human actuator	Model			CS8-5		
	Electromagnetic lock voltage		V	DC220、AC220		
Production weight	Not grounding		kg	80 120 190		

Outdoor AC High-voltage Disconnect Switch

GW8-40.5/72.5/126(W)Outdoor HV Isolating Switch

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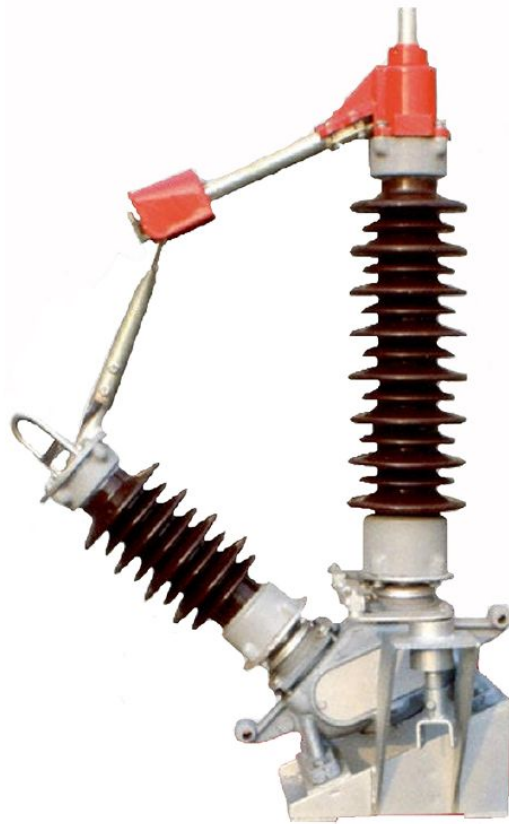
Appearance And Installation Dimensions



Outdoor High-voltage Disconnect Switch

GW13 Neutral Point Type High Voltage Disconnecting Switch

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Product Overview

The disconnecting switch is made up of base, pillar insulators, contacts, wiring board and other parts. The pillar insulators and the store-to-store score are installed on the base, and the intersection angle of the two pillar insulators is 50° . The base is fixed on a bracket inclined 25° . A shaft connected with the operating mechanism is installed on the bracket. It can be equipped with CS17-G manual operation mechanism or CJ6 motor mechanism.

Product Feature

The disconnecting switch adopts the double-post center-opening and the contact turning-in structure, which has the ability of self-cleaning contacts and improves the contact reliability.

The rotating part of the disconnecting switch is designed to be maintenance-free. The revolving seat is designed as a sealed structure, and moisture, dust, and harmful gases cannot enter, so that the bearing and the aluminum disulfide lithium-based grease will always work in a self-contained environment. The bearing bearing will not rust, the grease will not be lost, and the mining will not dry. The operating torque after long-term operation of the disconnecting switch will not increase. The stainless steel shaft pin and the oil-free self-lubricating bearing are matched with hot-dip galvanized steel parts to ensure that the disconnecting switch is flexible, portable, reliable and never rusty.

Outdoor High-voltage Disconnect Switch

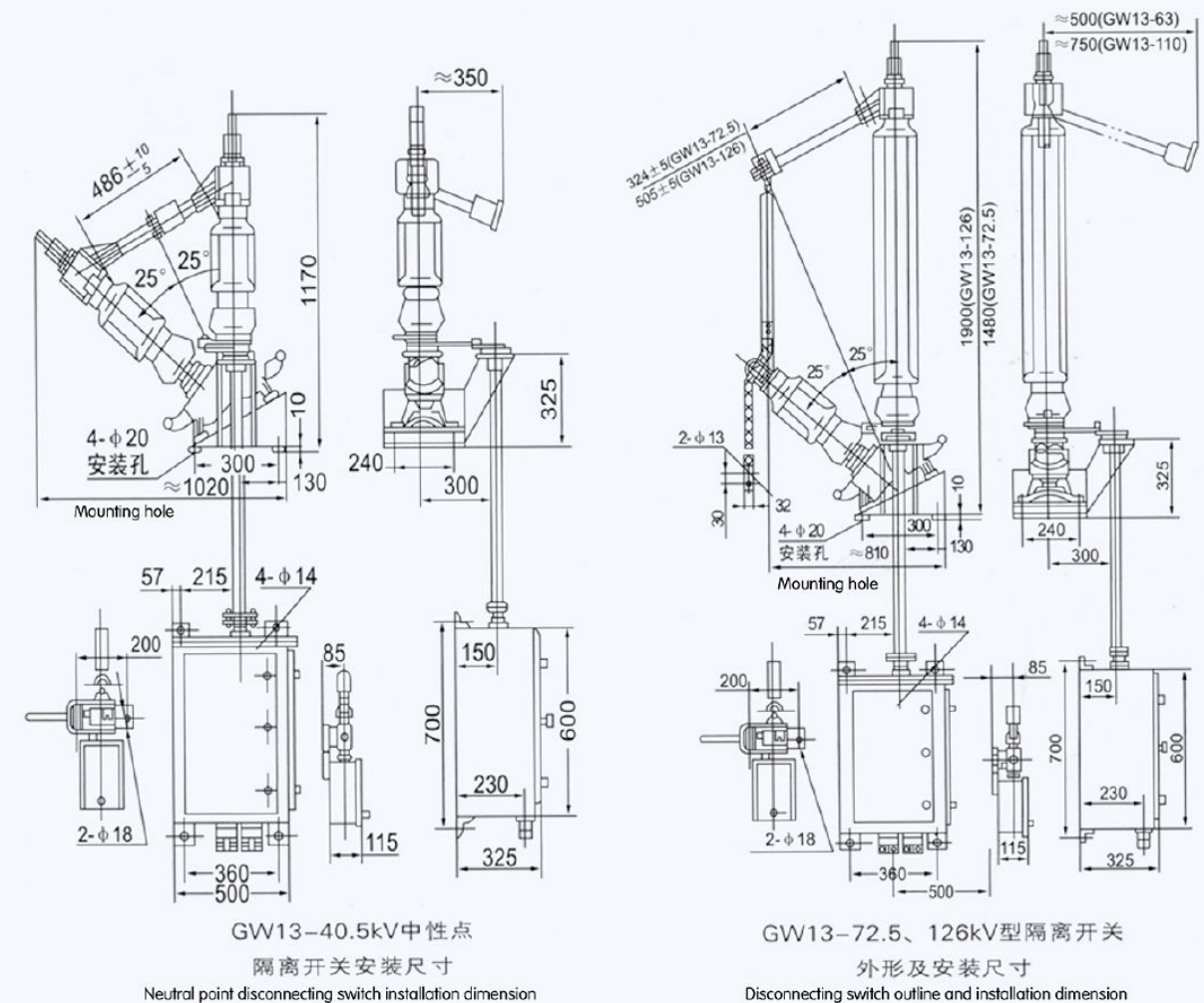
GW13 Neutral Point Type High Voltage Disconnecting Switch

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Main Technical Paramenters

序号 No.	名称 Item	单位 Unit	数据 Data	GW13-126
1	额定电压 Rated voltage	KV	72.5	126
2	额定绝缘水平 Rated insulation level	1min 工频耐受电压 (有效值) 1 min Power frequency withstand voltage (valid value)	KV	140
		雷电冲击耐压 (峰值) Lightning shock withstand voltage (peak)	KV	325
3	额定电流 Rated current	A	630	630
4	4s 短时耐受电流 4s short-time withstand current	KA	20	20
5	额定峰值耐受电流 Rated peak withstand current	KA	50	50
6	机械寿命 Mechanical life	次 Times	2000	2000
7	分闸后最小绝缘间隙 Minimum insulation clearance after opening	mm	> 675	> 1050
8	主回路电阻 Main circuit resistance	$\mu\Omega$	< 180	< 200
9	配电机构 Equipped mechanism		CS17 或 CJ6、CK7、CS14	
10	单极重量 Single pole weight	kg	160	200

Appearance And Installation Dimensions



Indoor High-voltage Disconnect Switch

GN10-10 Series Indoor high voltage disconnecting switch

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Product Overview

GN10-10 indoor single-phase high voltage disconnecting switch is composed of base, pillar porcelain insulator, operating porcelain insulator and conductive part.

It can be used in single-phase or three- phase connection. Can be equipped with manual or electric mechanism operation.

GN10-10 series indoor high-voltage disconnecting switch is a three-phase AC 50Hz high-voltage switchgear. It is used in power systems with a rated voltage of 10kV, especially in generator loop systems. It is used to divide and combine circuits with voltage and no load.

Working Environment

1. Altitude: 1000m;
2. Ambient air temperature: upper limit +40℃ , lower limit-25℃;
3. The relative humidity of the surrounding environment: the daily average value is not more than 95%, and the monthly average value is not more than 90%;
4. The earthquake intensity does not exceed 8 degrees;
5. Places without fire, explosion hazard, severe pollution, chemical corrosion and severe vibration..

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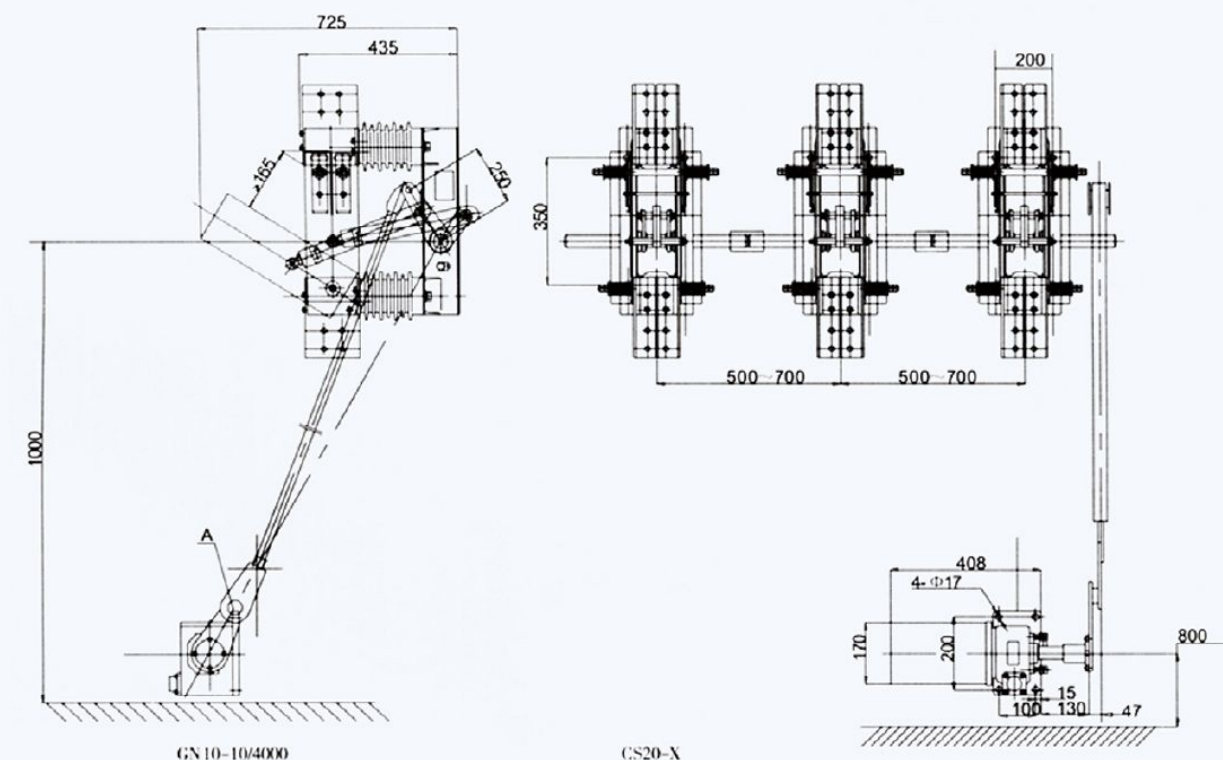
Indoor High-voltage Disconnect Switch

GN10-10 Series Indoor high voltage disconnecting switch

Main Technical Parameters

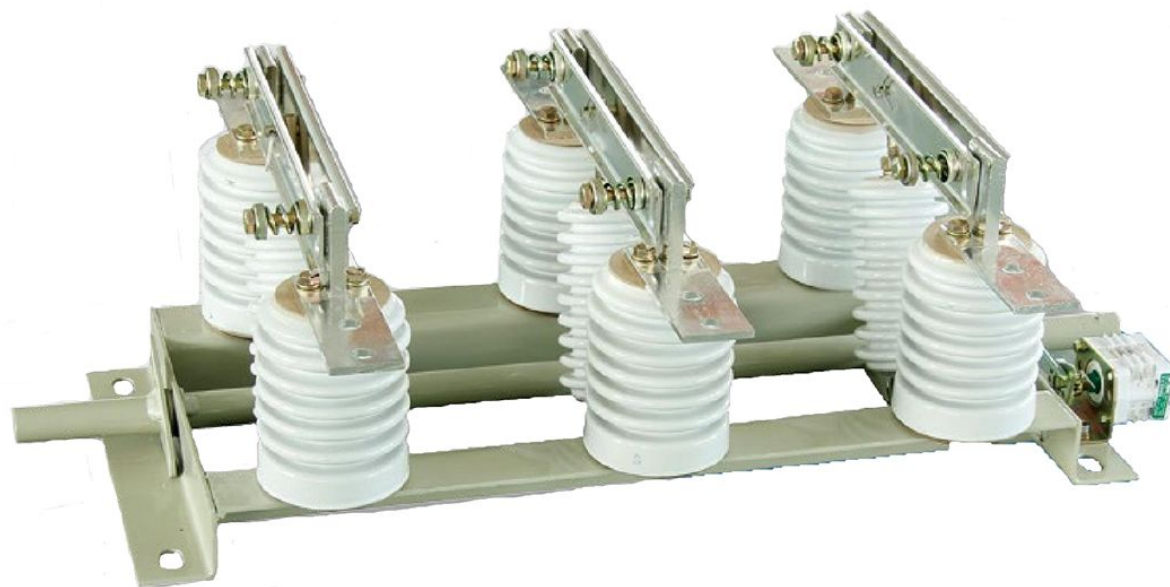
型号 Model NO.	额定电压 Rated voltage kV	最高工作电压 Maximum operating voltage kV	额定电流 Rated current A	动稳定电流 (峰值) Dynamic stability current kA (peak)	10s 热稳定电流 (有效值) 10s thermal stability current kA (peak) kA	主要尺寸 Diemnsion (mm)		重量 Weight kg
						H	h	
GN10-10/3000	10	12	3000	160	70-5	645	385	54
GN10-10/4000	10	12	4000	160	85-5	700	420	60
GN10-10/5000	10	12	5000	224	74-10	-	-	135
GN10-10/6000	10	12	6000	224	70-8	-	-	145
GN10-20/3000	20	24	3000	160	85-5	810	460	77
GN10-20/4000	20	24	4000	160	74-10	860	495	87
GN10-20/5000	20	24	5000	224	74-10	-	-	150
GN10-20/6000	20	24	6000	224	74-10	-	-	160
GN10-20/8000	20	24	8000	224	74-10	-	-	180
GN10-20/10000	20	24	10000	224	74-10	-	-	180

Appearance And Installation Dimensions



Indoor High-voltage Disconnect Switch

GN19-12 High Voltage Disconnecting Switch

Key of Power
Electric Professional
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Product Overview

GN19-12 type indoor high-voltage disconnecting high-voltage switchgear, used in power systems with rated voltage 12KV, AC 50Hz and below, equipped with CS6-1 type manual operating mechanism, as a voltage and no load condition, the distribution, For the purpose of circuit integration, there are also anti-pollution derivatives, high prototypes, and additional live display devices.

The disconnecting switch of this series is equipped with CS6-1 type manual operating mechanism (the disconnecting switch with panel has its own integrated operating mechanism). This series of disconnecting switches is three-pole type, consisting of a base frame, a rotating shaft, a lever, a porcelain post insulator, a knife and a wiring board. The rotating shaft is arranged on the bottom frame, on which three pairs of levers are welded, and the levers pass through the pull rod porcelain insulators and the knife necklace. The rotating shaft extends out of the base frame, and any section of it can be connected with the operating mechanism. Type C is through the wall. C1 means that the rotation is on the side of the wall; C2 means that the breaking is on the side of the wall; C3 means that both sides are on the side of the wall.

Working Environment

1. The altitude does not exceed 1000m;
2. Ambient air temperature: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$;
3. The relative humidity of the surrounding environment: daily average value not greater than 95% monthly average value not greater than 90%;
4. The seismic fissure does not exceed 8 degrees;
5. Installation site: There is no fire, flammable, explosive. Serious pollution, chemical corrosion and severe vibration.

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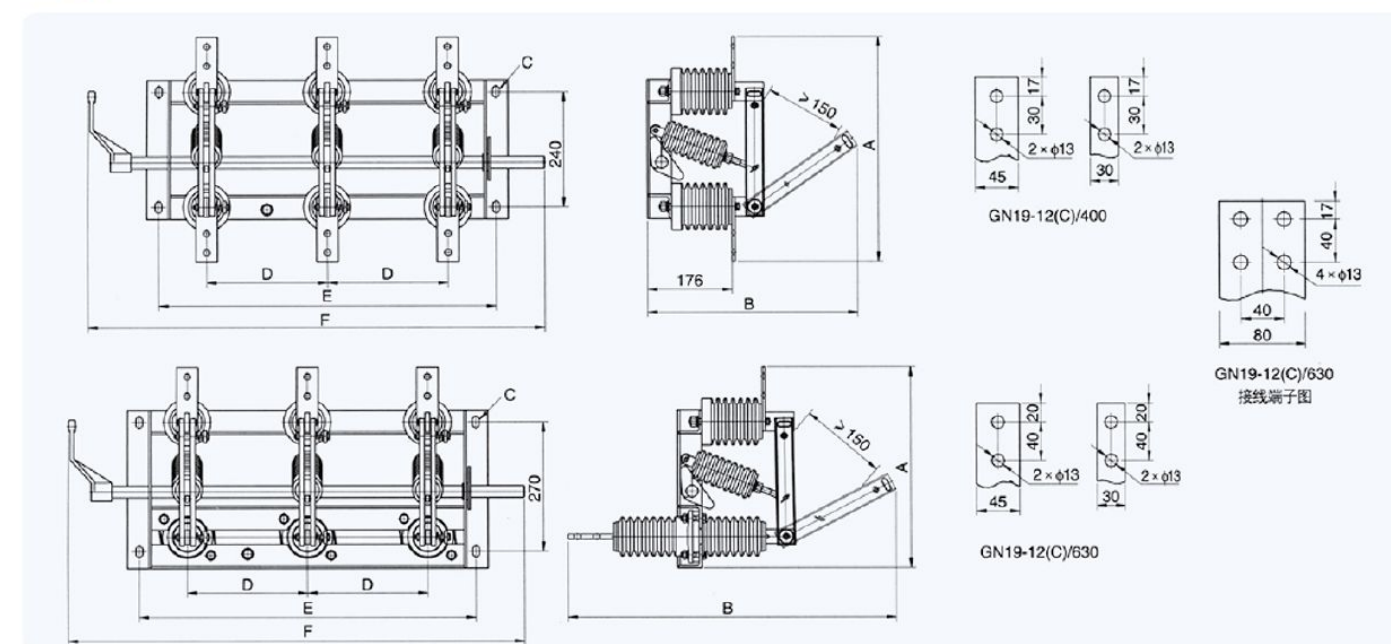
Indoor High-voltage Disconnect Switch

GN19-12 High Voltage Disconnecting Switch

Main Technical Parameters

序号 No.	名称 Item		单位 Unit	数据 Data									
1	额定电压 Rated voltage		KV	12									
2	1min 工频耐受电压	对地 To earth	KV	42									
	1 min Power frequency withstand voltage	断口 Fracture	KV	48									
3	雷电冲击耐受电压 (峰值)	对地 To earth	KV	75									
	Lightning impulse withstand voltage (peak)	断口 Fracture	KV	85									
4	额定频率 Rated frequency		HZ	50									
5	额定电流 Rated current		A	400		630			1000 1250				
6	额定短时耐受电流 Rated short-time withstand current		KA	16	20	16	20	25	20	25	31.5		
7	额定峰值耐受电流 Rated peak withstand current		KA	40	50	40	50	63	50	63	80		
8	额定短时耐受电流持续时间 主刀 / 地刀		s	4/2									
9	爬电距离 Creepage distance		mm	300~380									
10	机械寿命 Mechanical life		次 Times	2000									

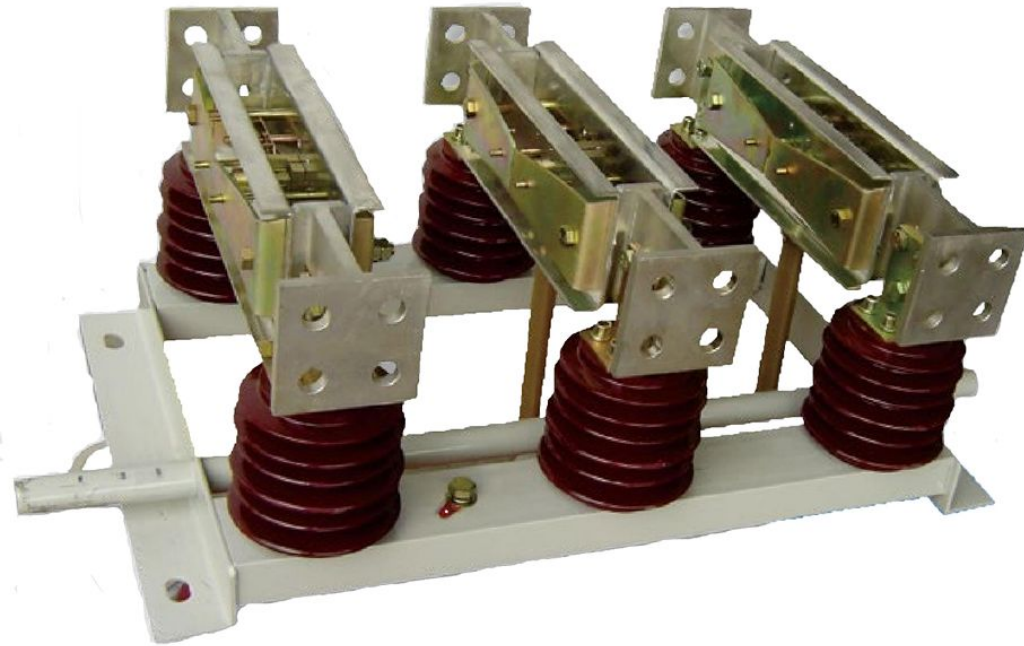
Appearance And Installation Dimensions



产品型号 Model NO.	A	B	C	D			E			F		
GN19-12/400	450	436	4-14 × 24	210	230	250	620	660	700	870	900	940
GN19-12/630	490	436										
GN19-12 ¹⁰⁰⁰ / ₁₂₅₀	510	530	4-18 × 28									
GN19-12C/400	420	625	4-14 × 24									
GN19-12C/630	460	625										
GN19-12C/ ¹⁰⁰⁰ / ₁₂₅₀	505	745	4-18 × 28									

Indoor High-voltage Disconnect Switch

GN22-12(C) High Voltage Disconnecting Switch



Product Overview

GN22-12(C) type disconnecting switch is suitable for three-phase AC 50Hz, rated voltage 12kV indoor devices. For high voltage equipment to connect, cut off or switch lines under the condition of voltage but no load.

This type of disconnecting switch is operated by CS6-2 manual mechanism or CX-6 II electric mechanism, which can be installed on the left or right of the disconnecting switch.

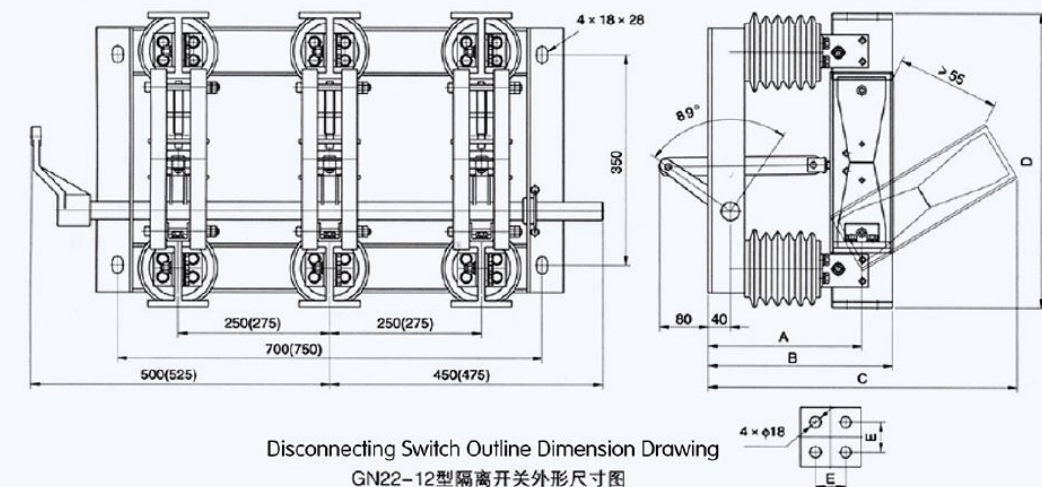
Indoor High-voltage Disconnect Switch

GN22-12(C) High Voltage Disconnecting Switch

Main Technical Parameters

名称 Item		单位 Unit	数据 Data	
额定电压 Rated voltage		KV	12	
额定频率 Rated frequency		HZ	50	
额定电流 Rated current		A	1600~2000	2500~3150
额定短时耐受电流 Rated short-time withstand current		KA	40	50
额定峰值耐受电流 Rated peak withstand current		KA	100	125
额定短时耐受电流时间 Rated short-time withstand current duration		s	4	
额定绝缘水平 Rated insulation level	1min 工频耐受电压 1 min Power frequency withstand voltage	KA	极间、极对地 42、断口 48 Pole to pole, pole to earth 42、fracture 48	
	雷电冲击耐受电压 Lightning impulse withstand voltage (peak)	KA	极间、极对地 75、断口 85 Pole to pole, pole to earth 75、fracture 85	

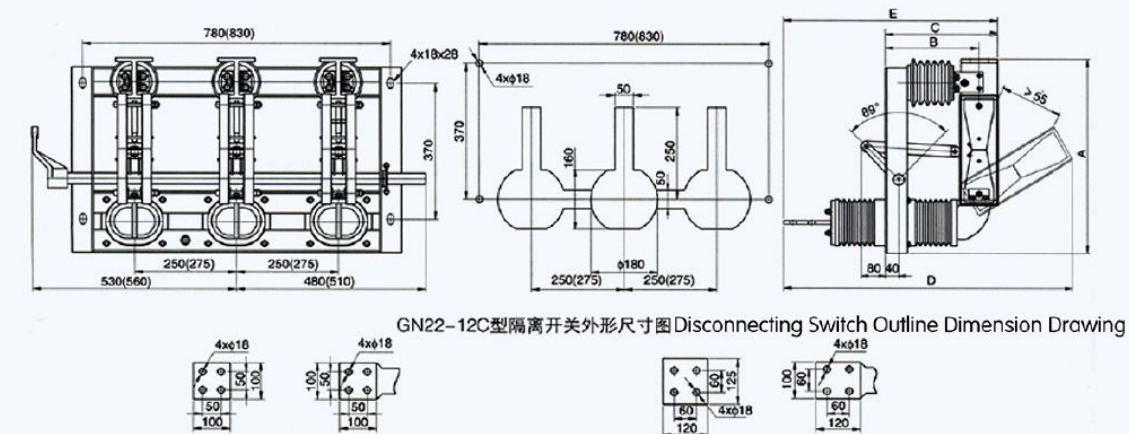
Appearance And Installation Dimensions



Disconnecting Switch Outline Dimension Drawing

GN22-12型隔离开关外形尺寸图

型号 Model NO.	A	B	C	D	E
GN22-12/ (1600-2000) -40	255	305	527	490	50
GN22-12/ (2500-3150) -50	262	325	538	494	60



GN22-12C型隔离开关外形尺寸图 Disconnecting Switch Outline Dimension Drawing

GN22-12C/(1600~2000)-40型高压隔离开关接线端子图
High Voltage Disconnecting Switch Terminal Drawing

GN22-12C/(2500~3150)-50型高压隔离开关接线端子图
High Voltage Disconnecting Switch Terminal Drawing

型号 Model NO.	A	B	C	D	E
GN22-12/ (1600-2000) -40	537	255	305	807	50
GN22-12/ (2500-3150) -50	539	667.5	330	880	60

Indoor High-voltage Disconnect Switch

GN27-40.5 Series Indoor High-voltage Isolating Switch

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• Overview

- The GN27-40.5 high-voltage isolation switch is a kind of new products. Suitable for rated voltage of 40.5kV power system communication, 50Hz, division, and power in the voltage no-load condition Road, is to replace old products designed products production. Can be matched with a high-voltage switch cabinet, but also can be used alone. With CS6-2 operating mechanism. By strengthening the insulation design, full The use of foot II polluted place conditions.
- Scientific and reasonable design, novel structure; multi-contact, rotary contact, self-cleaning ability, improve the heat dissipation capability; contact points on the two surface. small operation torque, pressure resistance, easy Adjustment, the creepage distance, strengthen the insulating ability, withstand voltage are to meet the highest requirements; installation of bearings in the shaft, and improves the service life, convenient operation.
- This series of isolation switch vertical rotary knife type three-phase chassis structure. Fracture of lateral static contact designed to swing much contact. with a monolithic contact pressure small, low wear, casual the advantages of large heating area, operating torque is small, while the use of large climbing distance post insulator and rod insulator, with high insulation performance and high mechanical strength. In order to meet the needs of design, have the paperback type, Wall type, with a grounding knife type etc. Horizontal, vertical or inclined to install the series isolation switch.

• Technical data

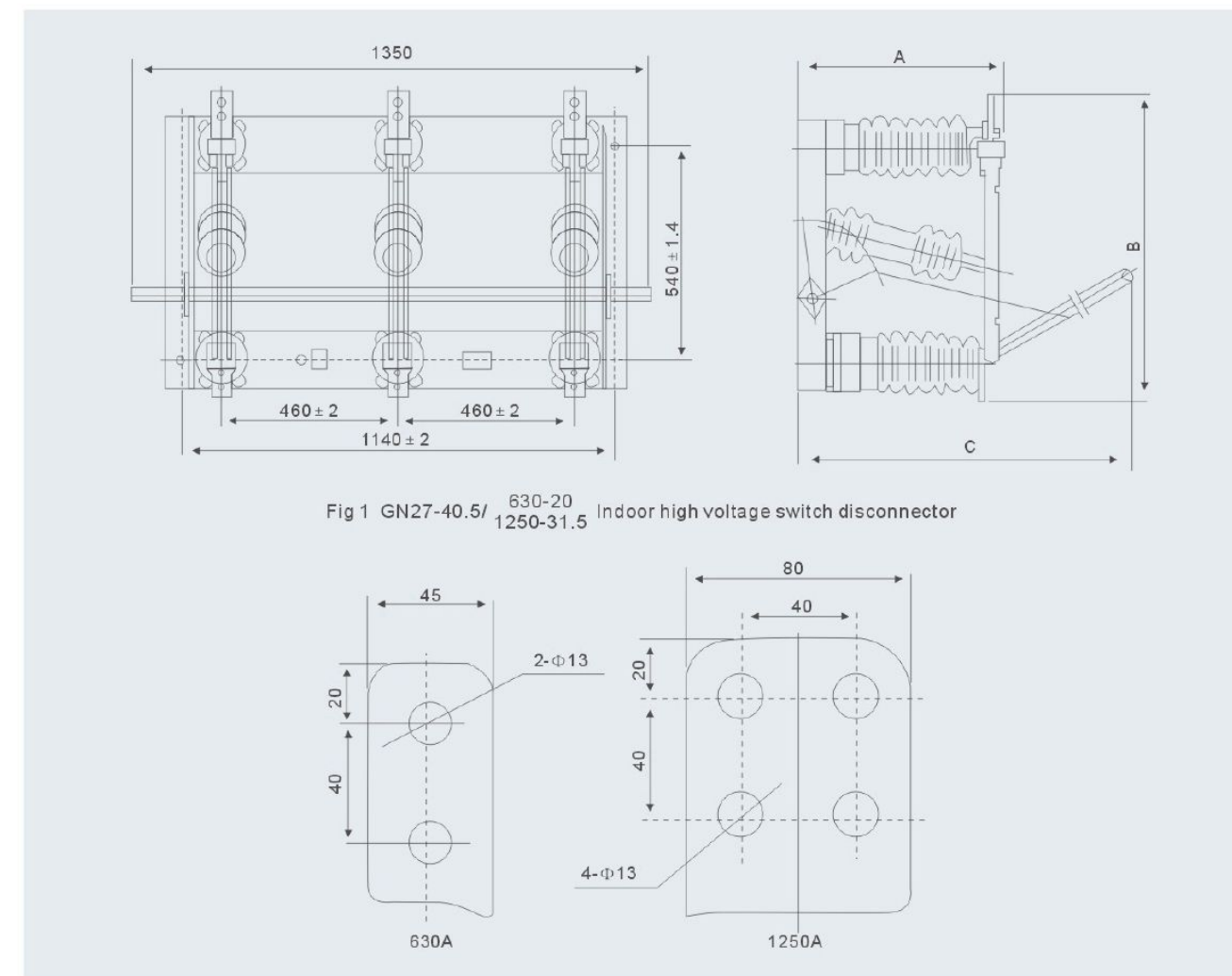
Model	Rated voltage	Rated current	Rated short-time withstand current (effective value/time)	Rated peak withstand current	Lightning impulse/withstand voltage		1min frequency/voltage tolerance	
					On the ground and electrode	Fracture	On the ground and electrode	Fracture
					(kV)		(kV)	
GN27-40.5/630-20	40.5	630	20/4s	50	185	215	95	115
GN27-40.5/1250-31.5	40.5	1250	31.5/4s	80	185	215	95	115

Indoor High-voltage Disconnect Switch

GN27-40.5 Series Indoor High-voltage Isolating Switch

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• Outline dimension

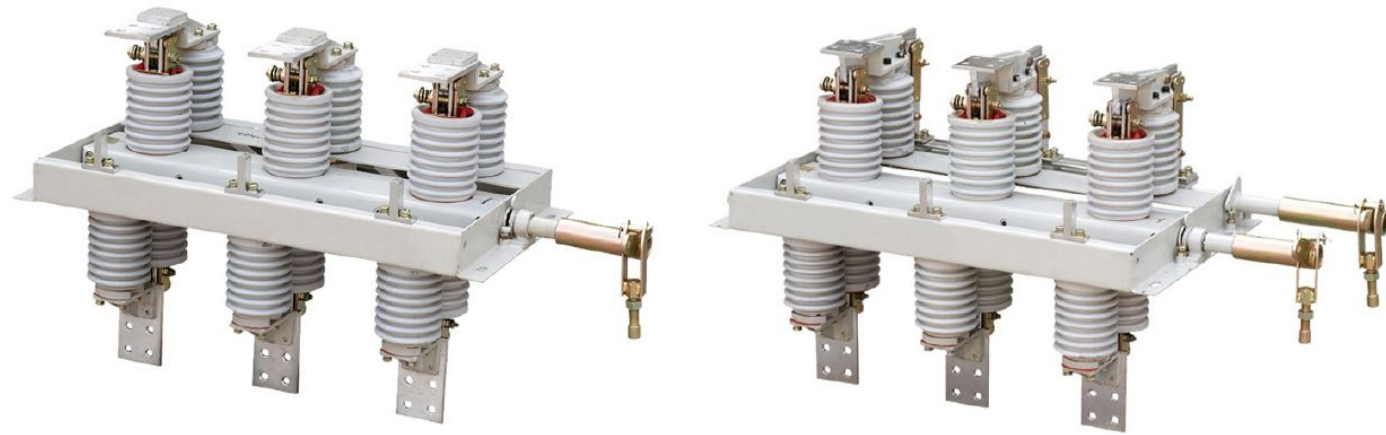


The product model	A	B	C
GN27-40.5/630-20	543	781	940
GN27-40.5/1250-31.5	544	788	950

Indoor High-voltage Disconnect Switch

GN30-12 Series High-voltage Isolating Switch

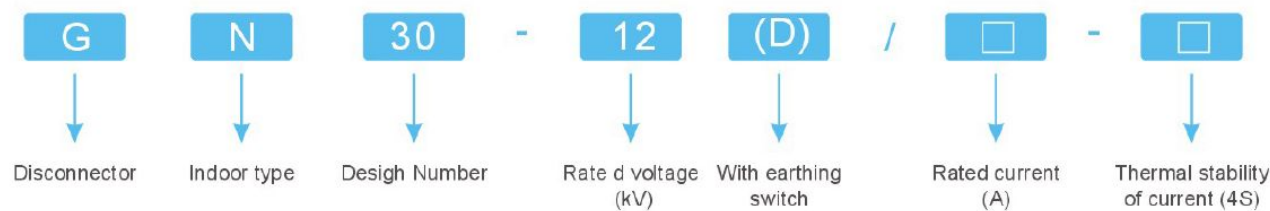
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• Introduction

- GN30-12 type rotary indoor high-voltage isolating switch is a new type of isolating switch for the rotary knife type, main structure is in three-phase chassis, the two plane, fixed two groups of insulator and contact, through the rotary knife, so as to realize the on-off switch.
- The GN30-12D switch is added with a grounding knife in the form of GN30-12 type switch basis, can meet the needs of different power systems. The product design is compact, small footprint, the insulating ability. Easy to install and adjust, its performance meets the GB1985-89 "AC high voltage isolating switch and earthing switch", suitable for rated voltage of 12000 volts AC 50Hz and indoor power system, as the voltage without load, and the circuit with. And supporting the use of high voltage switch cabinet, can also be used alone.

• Meaning of type



• Working environment

- Altitude: not more than 1000m;
- The ambient air temperature: +40℃ upper limit; lower limit -10;
- Relative humidity: daily average less than 95%; on average less than 90%;
- Earthquake intensity: no more than 8 degrees;
- No serious dust, corrosive and explosive material place;
- No violent vibration often places in.

Indoor High-voltage Disconnect Switch

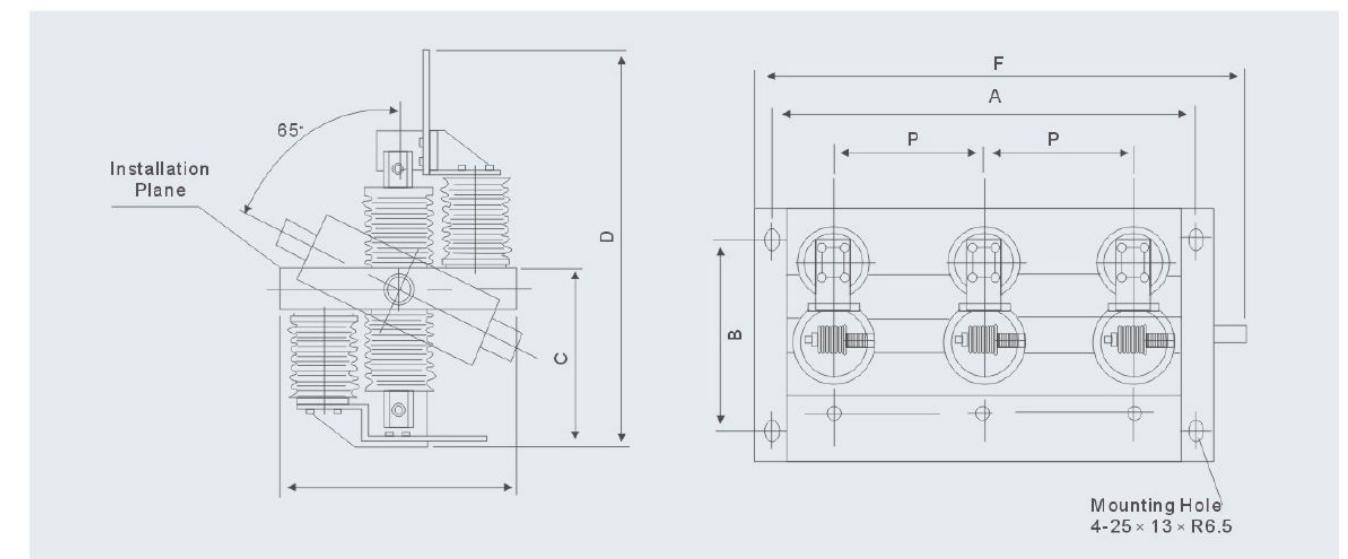
GN30-12 Series High-voltage Isolating Switch

• Technical data

Parameters		Product specifications			
		GN30-12/400-12.5	GN30-12/630-20	GN30-12/1000-31.5	GN30-12/1250-31.5
Item		GN30-12D/400-12.5	GN30-12D/630-20	GN30-12D/1000-31.5	GN30-12D/1250-31.5
Rated voltage		10			
The highest voltage(kV)		12			
Rated current		400	630	1000	1250
Thermal stability of current (kA)		12.5	20	31.5	
Thermal stability time (s)		4			
Dynamic current (kA)		31.5	50	80	
Rated insulation level	Rated impulse voltage(kV)	Phase,phase 75,break 85			
	1min Frequency voltage (kV)	Phase,phase 42,break 48			

• Outline dimension

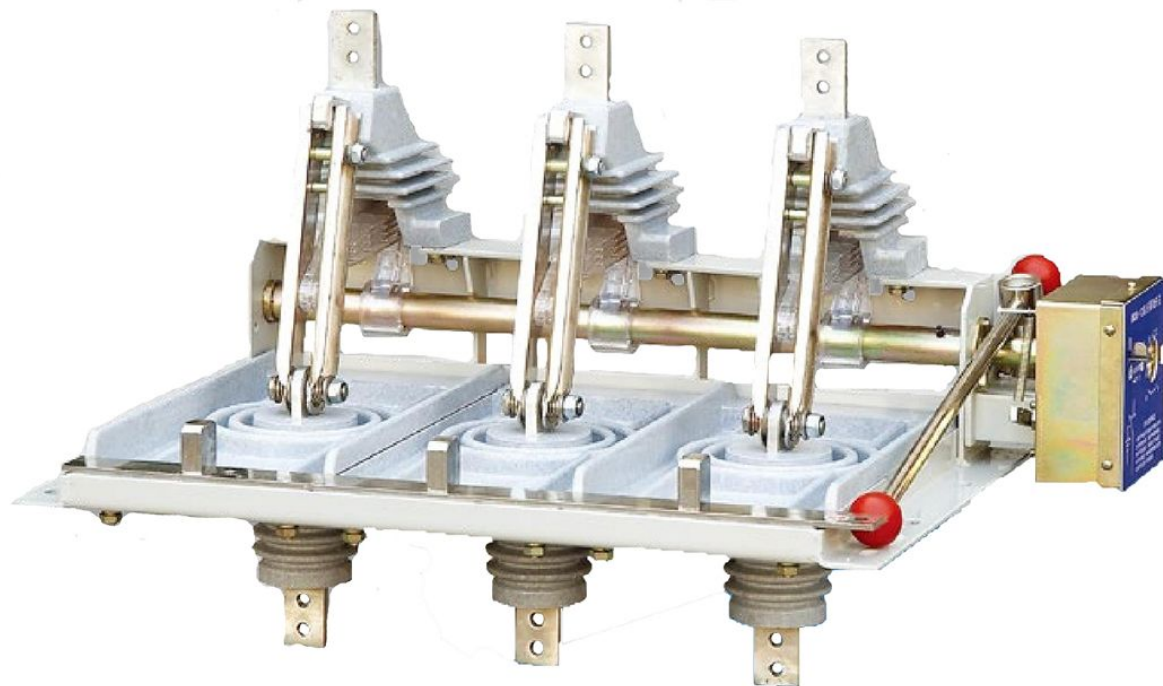
GN30-12/1250 appearance and installation dimensions



Mounting Hole
4-25 × 13 × R6.5

Indoor High-voltage Disconnect Switch

GN38-12 High Voltage Disconnecting Switch

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Product Overview

GN38-12 indoor high-voltage disconnecting switch type indoor high-voltage disconnecting switch is designed and manufactured to meet the needs of fixed high-voltage cabinets and ring mains cabinets to compact and miniaturize. It has a three-station structure, a fully insulated bottom plate, and is equipped with a coaxial lock and a complete mechanical interlocking mechanism, which is compact and small. It is the best option switch for compact box switch cabinet.

Reference standard:

GB1985-1989 AC high voltage disconnecting switch and grounding switch
IEC129-84 AC disconnecting switch and grounding switch

Working Environment

1. The altitude is below 2000m;
2. Ambient air temperature: upper limit +40℃ , lower limit-25℃;
3. Relative humidity: daily average value is not more than 95%, monthly average value is not more than 90%;
4. The surrounding air should not be significantly polluted by corrosive or flammable gas, water vapor, etc.;
5. No frequent severe vibration.

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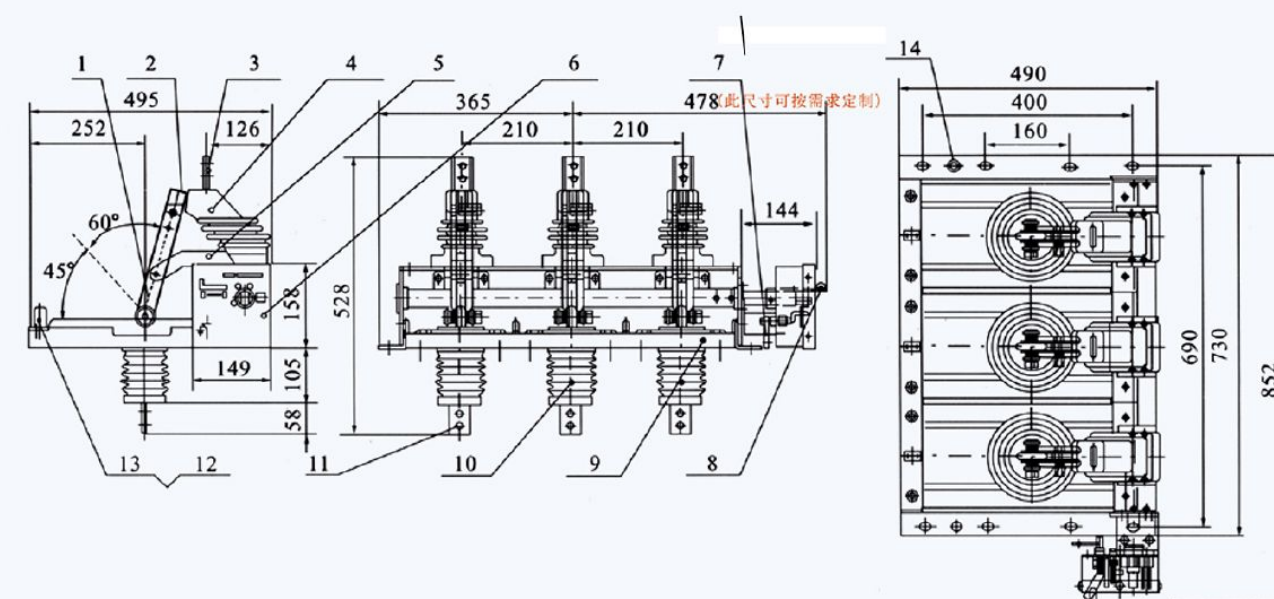
Indoor High-voltage Disconnect Switch

GN38-12 High Voltage Disconnecting Switch

Main Technical Parameters

序号 No.	名称 Item		单位 Unit	数据 Data
1	额定电压 Rated voltage		kV	12
2	额定频率 Rated frequency		HZ	50
3	额定电流 Rated current		A	630–1250
4	额定热稳定电流 Rated thermal stability current (4s)		kA	25–31.5
5	额定动稳定电流 Rated dynamic stability current		kA	63–80
6	额定绝缘水平 Rated insulation level	1min 工频耐受电压 1 min Power frequency withstand voltage	kV	对地及相间 42；隔离断口 48
		雷电冲击耐受电压 Lightning impulse withstand voltage		对地及相间 75；隔离断口 85

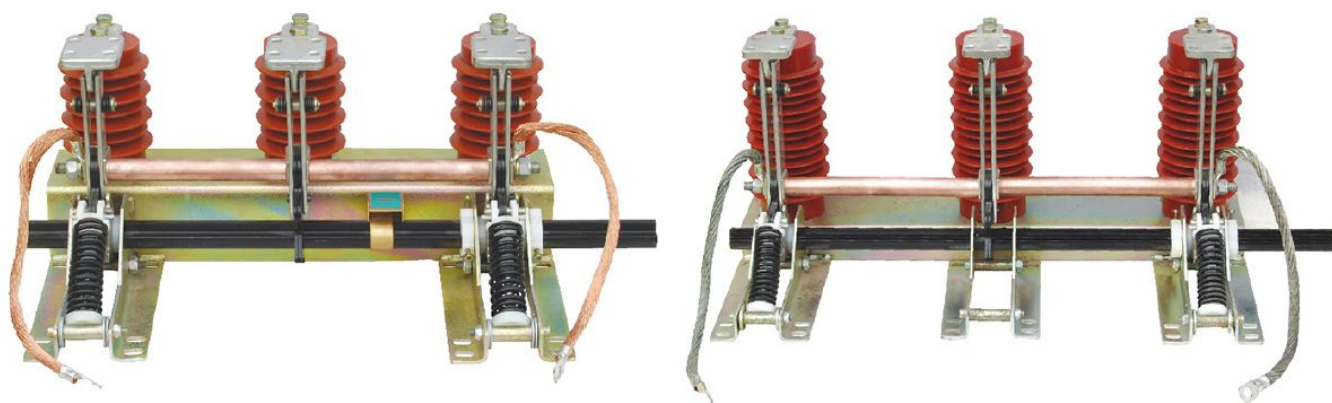
Appearance And Installation Dimensions



- | | | | |
|---------|---------------------------|---------------|---|
| 1- 动触刀 | 1. Dynamic contact blade | 8- 手动操作定位机构 | 8. Manual operation positioning mechanism |
| 2- 静触头 | 2. Static contact | 9- 底座 | 9. Base |
| 3- 进线端子 | 3. Incoming terminal | 10- 母线穿墙式绝缘底板 | 10. Busbar through-wall insulation bottom plate |
| 4- 绝缘支座 | 4. Insulation support | 11- 出线端子 | 11. Outlet terminal |
| 5- 绝缘拉杆 | 5. Insulation rod | 12- 接地触头 | 12. Grounding contact |
| 6- 操作面板 | 6. Operation panel | 13- 接地母排 | 13. Grounding busbar |
| 7- 联锁机构 | 7. Interlocking mechanism | 14- 接地螺钉 | 14. Grounding screw |

Indoor High-voltage Disconnect Switch

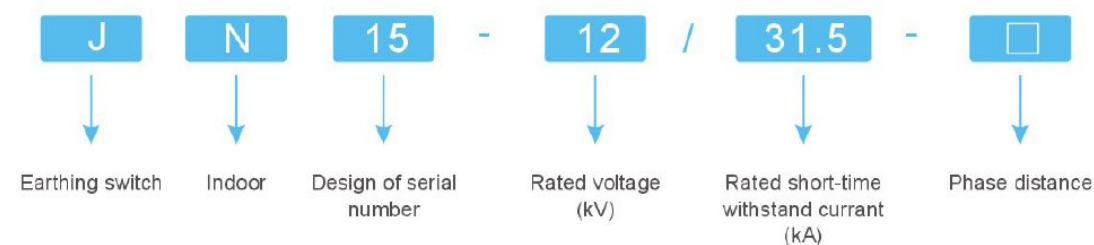
JN15-12/31.5 Series Combined Earth Switch(ES1-10/31.5)

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• Overview

- JN15-12/31.5 indoor HV earthing switch (hereinafter referred to as the earthing switch) is based on the needs of the market design and development of new type grounding switch my company, suitable for indoor 3~12kV three-phase AC50(60) used in power system Hz high voltage switch cabinet and the model matching, can also be used as a high voltage electrical equipment maintenance grounding.
- The grounding switch is simple and compact structure, light weight, flexible operation, convenient installation, good dynamic stability, is the ideal replacement product of JN4-10 grounding switch.

• Meaning of type



Indoor High-voltage Disconnect Switch

JN15-12/31.5 Series Combined Earth Switch(ES1-10/31.5)

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• Working environment

- Advanced design. Reliable technical performance;
- Is simple in structure, convenient installation and debugging;
- With rapid, photosynthetic ability;
- The altitude does not exceed 1000m;
- The ambient air temperature; +40℃-10℃ upper limit, lower limit;
- Allow storage at 30℃;
- Seismic intensity does not exceed 8 degrees;
- No flammable explosive, serious dust, chemical corrosion and severe vibration.

• Installation and maintenance

- The user the open-package inspection;
- The accessories and the completeness of the documentation;
- Cheek whether the product is damaged in transit;
- Horizontal, vertical, inclined installation of the earthing switch;
- Users may need to adjust the crank arm or gear position (left or right), method is to loosen the two screws to adjust the positioning ring, beating with a wooden head spindle.
- Tip to a desired position, to tighten the screws.
- The file: product certification, specification, packing list.

• Technical data

Item		Unit	Data	
Rated voltage		kV	12	
Rated short-time withstand current(thermal stability)		kA	40	
Rated short-circuit duration		S	4	
Rated short-circuit current		kA	100	
Rated peak withstand current (dynamic stability)		kA	100	
Rated insulation level	Rated short-time power-frequency withstand voltage	kV	Relative to a phase of the	42
	Rated lightning impulse withstand voltage			75
The life of the machine		Times	2000	

• Ordering information

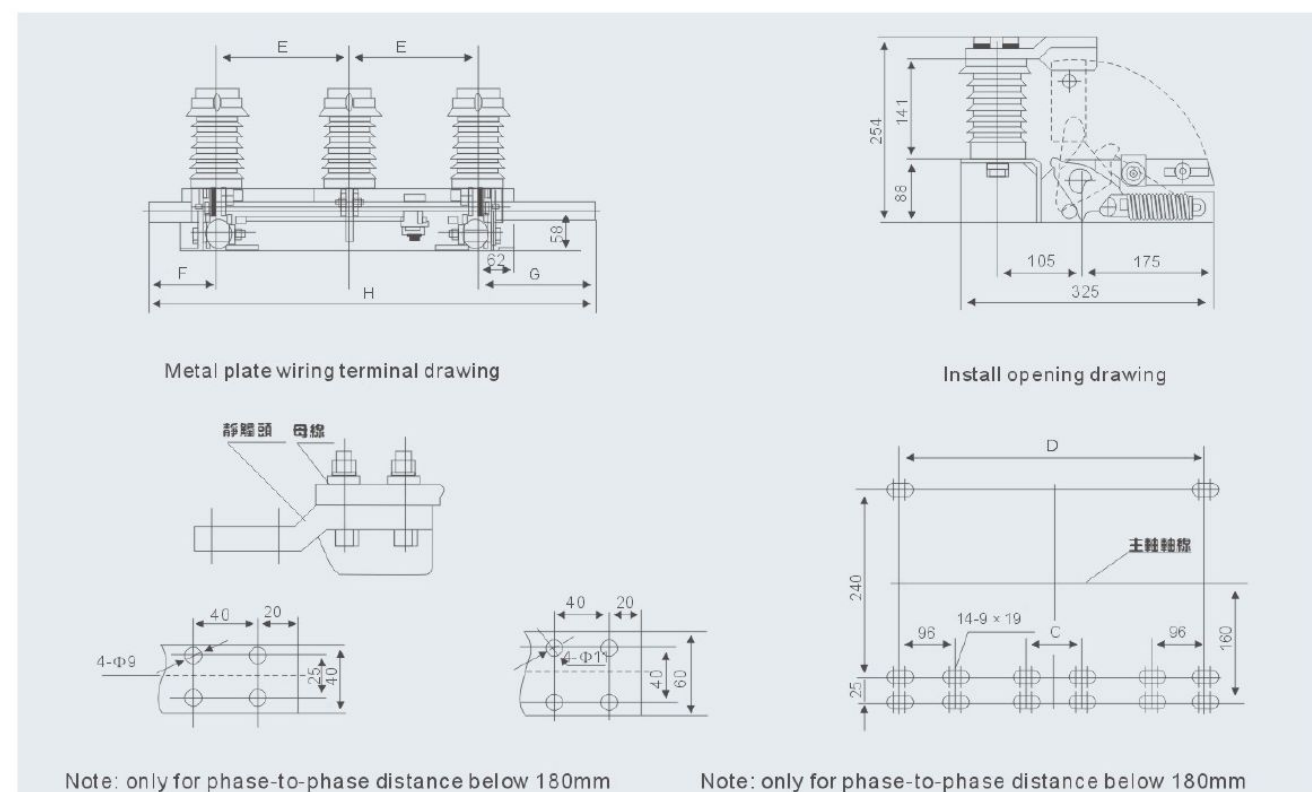
- ordered the grounding switch, shall indicate the product modal, distance. Whether the power supply display device (display models).
- soft connection length is required (typically L=240).
- if users have special requirements, please consult with our company address.

Indoor High-voltage Disconnect Switch

JN15-12/31.5 Series Combined Earth Switch(ES1-10/31.5)

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• Outline dimension



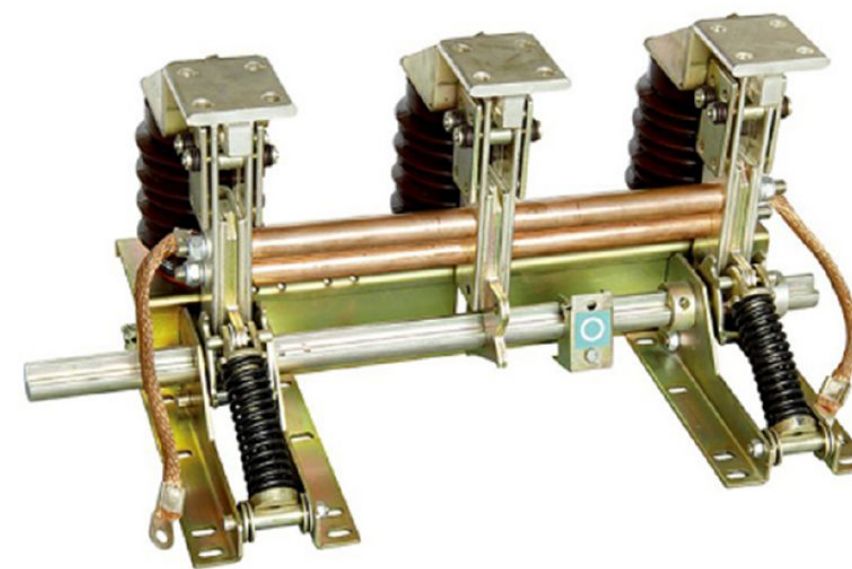
(Units:mm)

Model	E	F	G	H	D	C
JN15-12/31.5-165	165	75	160	565	426	
JN15-12/31.5-180	180	75	160	695	456	
JN15-12/31.5-200	200	75	160	635	496	
JN15-12/31.5-210	210	75	160	655	516	
JN15-12/31.5-220	220	75	160	675	536	
JN15-12/31.5-230	230	75	160	896	556	96
JN15-12/31.5-250	250	75	160	735	596	96
JN15-12/31.5-275	270	75	185	810	646	116

Indoor High-voltage Disconnect Switch

JN17(15)-12/40 Series Indoor High-voltage Grounding Switch

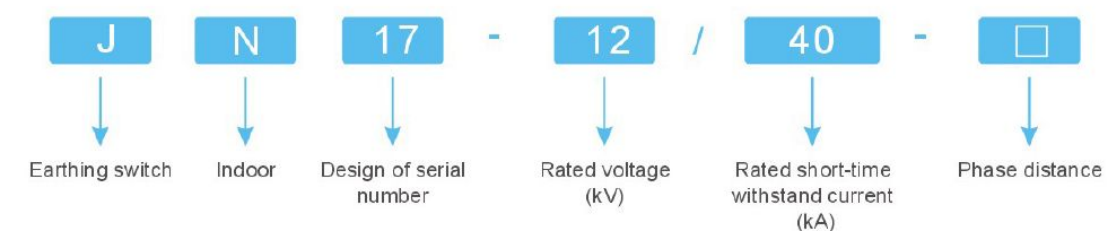
Key of Power
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• Overview

- JN17-12/14 (prototype JN15-12/40 with the market difference between my company changed to JN17-12/40) high-voltage grounding switch is based on a Es1 type grounding switch prototype design and development with the international advanced level of new earthing switch in our company. Structure is assembled, its performance meets the GB1985-2004 "AC high voltage isolating switch and the grounding switch" and the requirements of IEC129, suitable for indoor 3-10kV three-phase AC 50(60) of electric power system Hz: it has the ability to protect the switch equipment of other electrical equipment is not damaged partly, can use matched with various high voltage switch cabinet. As the grounding protection of high-voltage electrical equipment maintenance.

• Meaning of type



• Working environment

- Ambient air temperature: +40℃-40℃ upper limit, lower limit.
- Altitude: not more than 1000 meters.
- Earthquake intensity: no more than 8 degrees.
- No fire, explosion. Serious dust, chemical corrosion of intense vibration.

Indoor High-voltage Disconnect Switch

JN17(15)-12/40 Series Indoor High-voltage Grounding Switch

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• Installation and maintenance

- The user the open-package inspection;
- The accessories and the completeness of the documentation;
- Check whether the product is damaged in transit;
- Horizontal, vertical, inclined installation of the earthing switch;
- Users may need to adjust the crank arm or gear position (left or right), method is to loosen the two screws to adjust the positioning ring, beating with a wooden head spindle.
- Tip to a desired position, to tighten the screws;
- The file: product certification, specification, packing list.

• Technical data

Item		Unit	Data	
Rated voltage		KV	12	
Rated short-time withstand current(thermal stability)		kA	40	
Rated short-circuit duration		s	4	
Rated short-circuit current		kA	100	
Rated peak withstand current(dynamic stability)		kA	100	
Rated insulation level	Rated short-time power-frequency withstand voltage	KV	Relative to a phase of the	42
	Rated lightning impulse withstand voltage			75
The life of the machine		Times	2000	

• Ordering information

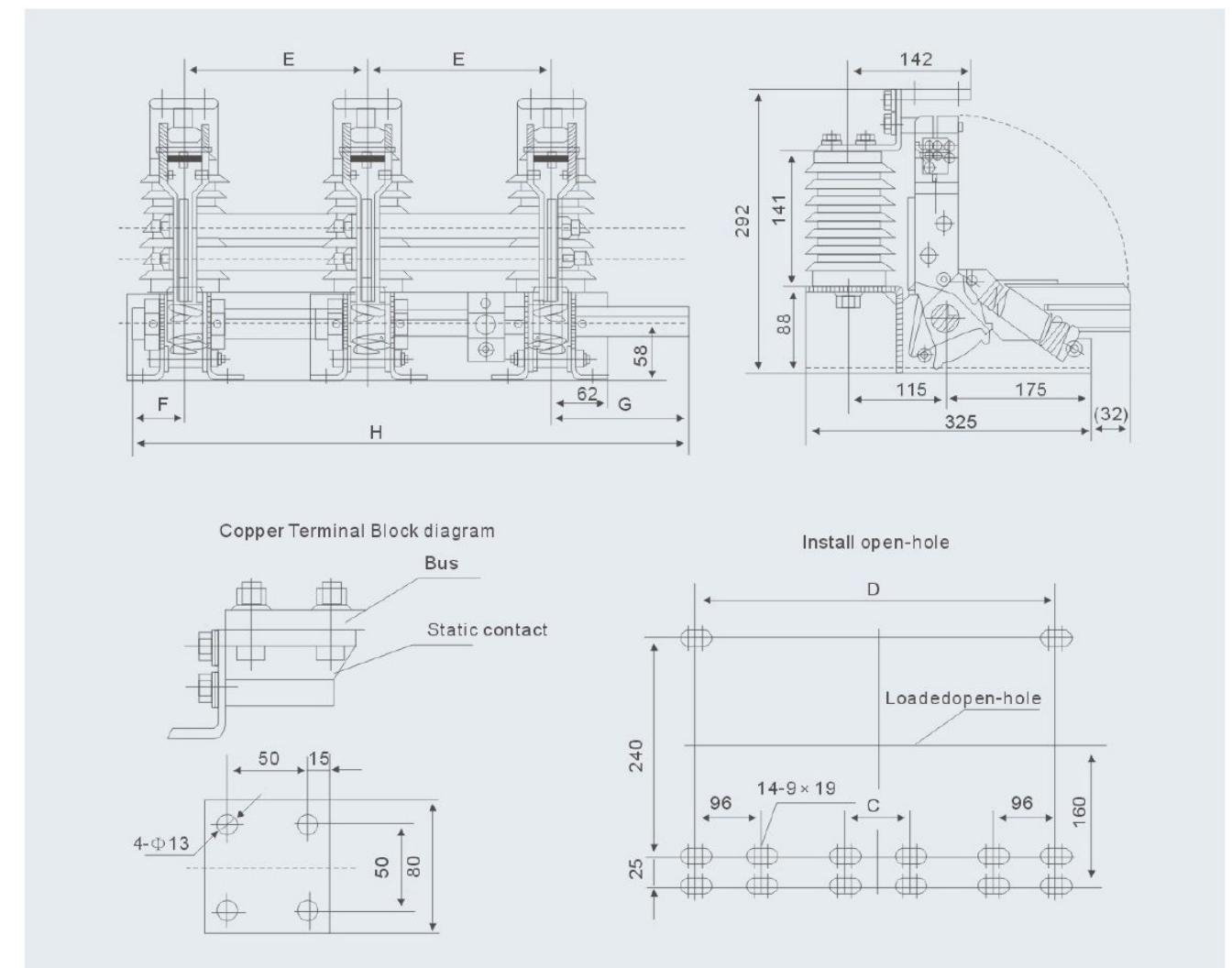
- 1, ordered the grounding switch, shall indicate the product model, distance. Whether the power supply display device (display models).
- 2, soft connection length is required (typically L=240).
- 3, if users have special requirements, please consult with our company address.

Indoor High-voltage Disconnect Switch

JN17(15)-12/40 Series Indoor High-voltage Grounding Switch

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• Outline dimension



(Units:mm)

Model	E	F	G	H	D
JN17-12/40-210	210	50	185	655	516
JN17-12/40-220	220	50	185	675	536
JN17-12/40-230	230	50	85	695	556
JN17-12/40-250	250	50	185	735	596
JN17-12/40-275	275	50	210	810	646

Indoor High-voltage Disconnect Switch

IACM Series Indoor High-voltage Grounding Switch

Key of Power
Electric Professional
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• Overview

The P-94 disconnecter switches have been designed for overhead distribution networks of Max voltage 36kV. They make it possible to isolate the part of the network downstream of the permanent fault, and to ensure the maintenance interventions in perfect safety.

In this aircraft, the classic pantograph of overhead switches was replaced by a copper contact knife. Its "U" profile gives it a very high elasticity to guarantee a perfect electrical contact, both on the "rupture" side (fixed contacts) and on the "articulation" side. The movement of the contact knife is ensured by tilting the moveable insulator.

• Principle of operation

When the device is closed, the kinematics are provided so that the whip is not engaged in the hook until contact is established between the movable knife and the firmly fixed knife. When the device is opened, the whip is suddenly released as in any system of this type of device. Its braking at the end of travel is achieved by the release of its spring, the coils of which will have been loaded when closing.

Indoor High-voltage Disconnect Switch

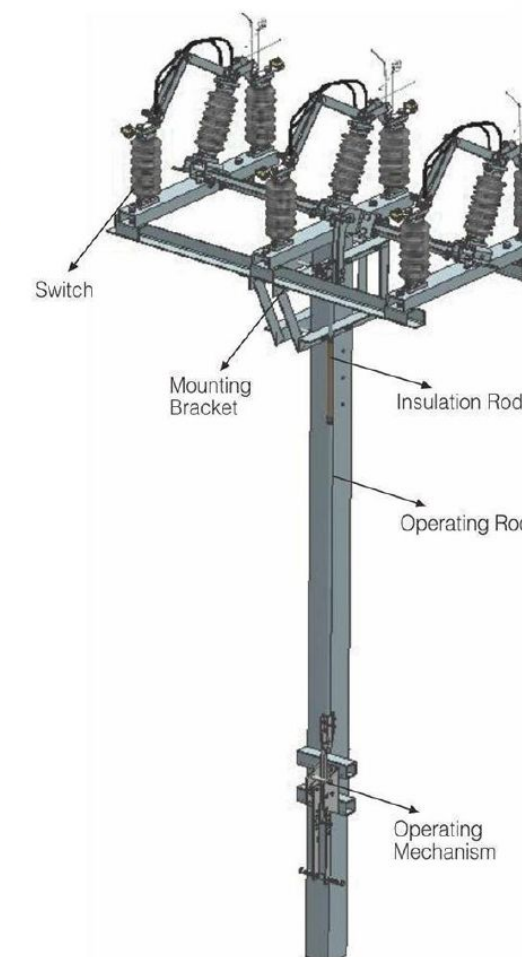
IACM Series Indoor High-voltage Grounding Switch

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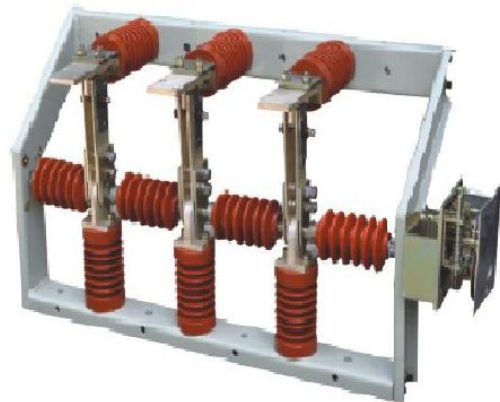
Technical characteristics

Item	Unit	Data		
Rated voltage	kV	12	24	36
Rated frequency	Hz	50/60		
Rated current	A	100/200/400		
Rated short-circuit withstand/ breaking current	kA	12.5		
Rated short-circuit making current (peak)	kA	32		
Rated peak withstand current	kA	32		
Rated short-circuit time	Sec	1		
Mechanical Operations	Times	5000		
Power frequency withstand voltage (1 min)	kV	28/32	50/60	70/80
Lightning impulse withstand voltage (peak)	kV	76/85	125/145	170/195



New Arrival

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