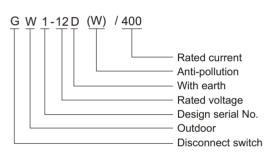# GW1-12 HV Disconnect Switch

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

G W 1 - 12 D (W) / 400

- Rated current
- Anti-pollution
- With earth
- Rated voltage
- Design serial No.
- Outdoor
- Disconnect switch

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,

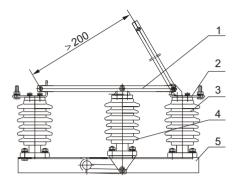C/O charging current which on busbar facility,

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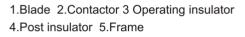
Technical specification

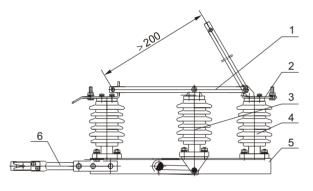| Item	Unit	Data			Note
Rated voltage	kV	12			
Rated current	A	400 630	800 1000	1250	
Rated peak withstand voltage	kA	50	63	100	The date of earth switch is same as the main switch
Rated short-time withstand current	kA/4s	20	25	40	

Outline dimension

Drawing 1 GW1-12

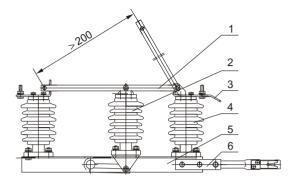1.Blade 2.Contactor 3 Operating insulator
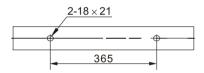4.Post insulator 5.Frame
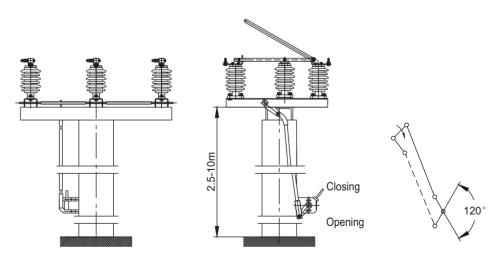

Drawing 2 GW1-12 (D1)

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

$2\text{-}18 \times 21$

365

2.5-10m

Closing

Opening

120°

Drawing 5