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

Summary

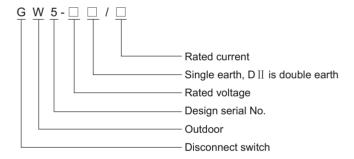
GW5-40.5/72.5/126/145 outdoor high voltage disconnect switch is used to make or break high voltage circuit in rated voltage 40.5kV, 72.5kV, 126/145kV, AC 50/60Hz system. It is able to open and close small capacitance and inductive current. This disconnect switch accords with standards: IEC62271-103 High 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: ≤1000m;
- 2. Ambient temperature: -40°C~+40°C;
- 3. Wind speed: ≤34m/s;
- 4. Pollution degree: ≤III;
- 5. Earthquake intensity: ≤8 degree;
- 6. Ice thickness: ≤10mm.

Model



Structure feature

Disconnect switch is make 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 disconnector with earth switch, it also have male and female contact, blade, drving 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	А	630 1250 1600 2000				
Rated peak withstand current	kA		0 100			
4s short-time withstand current	- KA	25 31.5 40				
Rated short-time withstand time	s	3/4				
Rated power frequency	Hz	50/60				

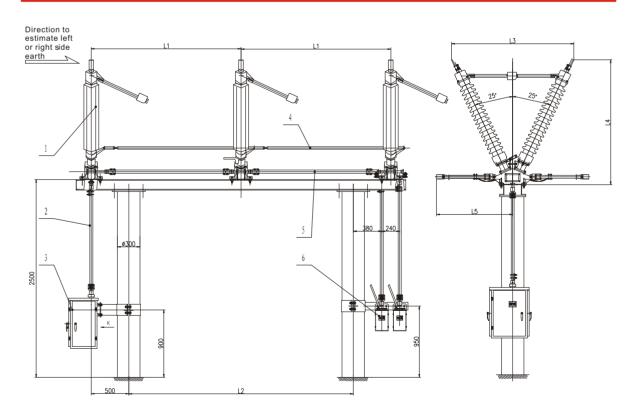
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Item		Unit	Data				
1min power frequency withstand voltage	phase to earth	kV	95	160	230	275	
	across open contacts		115	200	230+70	315	
Lightning impulse withstand voltage(peak)	phase to earth		185	350	550	650	
	across open contacts		215	410	550+100	750	
Main loop resistance	630A	- μΩ	≤150	€ 200	€ 225	≤ 250	
	1250A		≤100	≤ 125	_≤ 150	_≤ 175	
	1600A		≤80	≤ 100	≤ 120	≤ 125	
	2000A		≤60	≤ 80	≤ 100	≤ 125	
Main blade open contacts		mm	≥400	≥ 900	≥ 1050	_≥ 1350	
Single phase weight		kg	90	250	300	350	
Mechanical steady operating times		times	3000				
Operating mechanism type	main blade		CJ6B or CS17				
	earth blade		CS17				

Product feature

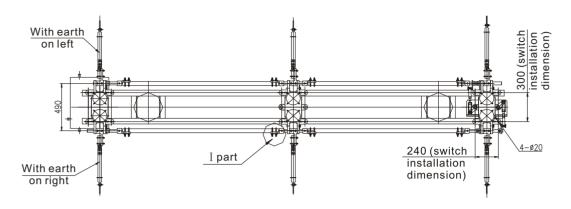
There are two supporting insulators fixuped on the pedestals respectively with the 50 °C inclination, and the main components include pedestals, supporting insulators, connection seat, contacts earthing blades, earthing fixed contact and so on. There are three kinds of disconnect switch: without earthing, single-earthing and double-earthing. It be provided with mechanism linkage between principal axis and earthing blades and assistant switch, operating can be achieved by manual and motor.

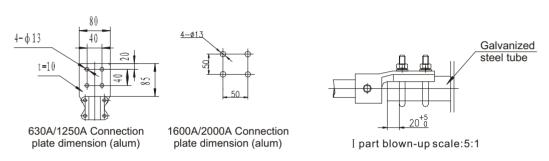
Outline dimension



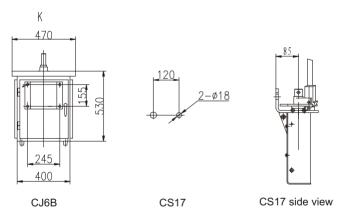
- 1.Switch 2.Vertical connection bar 3.CJ6B motor operating mechanism
- 4. Horizontal connection bar 5. Horizontal connection barfor earth switch
- $6.CS17\ manual\ operating\ mechanism$

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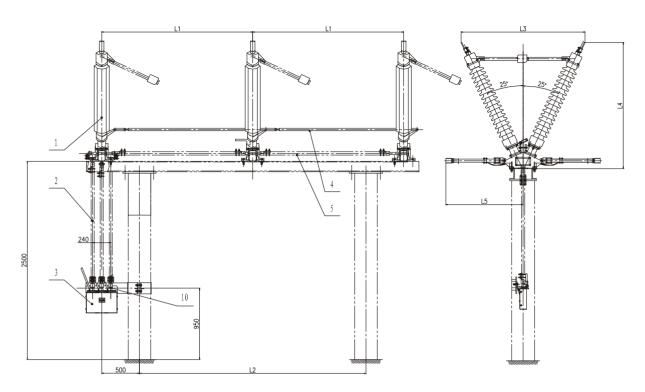
- 1.CJ6B motor mechanism weight and output moment: 90 kg/500N.M(main blade) 2.CS17 manual mechanism weight and operating force: $15 kg/\le 200N$.
- 3. Single phase windward acreage: 0.5 m²
- 4.Barycenter height:600mm



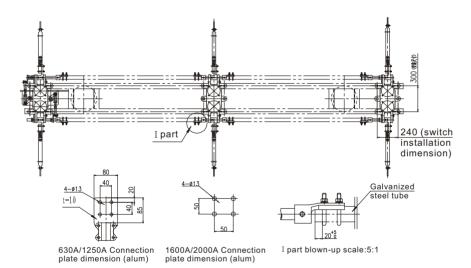
Item	L1	L2	L3	L4	L5
145kV with earth	2500	4000	1820	1860	1840
145kV without earth	2500	4000	1820	1860	
126kV with earth	2000	3000	1660	1680	1640
126kV without earth	2000	3000	1660	1680	
72.5kV with earth	1700	2400	1290	1300	1215
72.5kV without earth	1700	2400	1290	1300	

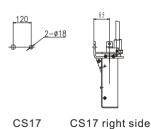
Drawing 1 GW5-72.5 / 1250 / 1250 Outdoor HV disconnect switch (main blade with CJ6B mechanism, earth blade with CS17 mechanism)

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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





- 1.CS17 manual mechanism weight and operating force:15kg/ \leqslant 200N.
- 2. Single phase windward acreage: 0.5 m²
- 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	

Drawing 2 GW5- $^{72.5}_{126}$ / $^{1250}_{1600}$ Outdoor HV disconnect switch (main blade and earth blade both with CS17 mechanism)