

## GWHY1-27.5 Outdoor Disconnect Switch

### Summary

GWHY1-27.5 outdoor disconnect switch is used to close and open 27.5kV 50/60Hz line system under with voltage and no load condition it accords with standards of IEC62271-103: High voltage switches.



### Ambient condition

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

### Structure feature

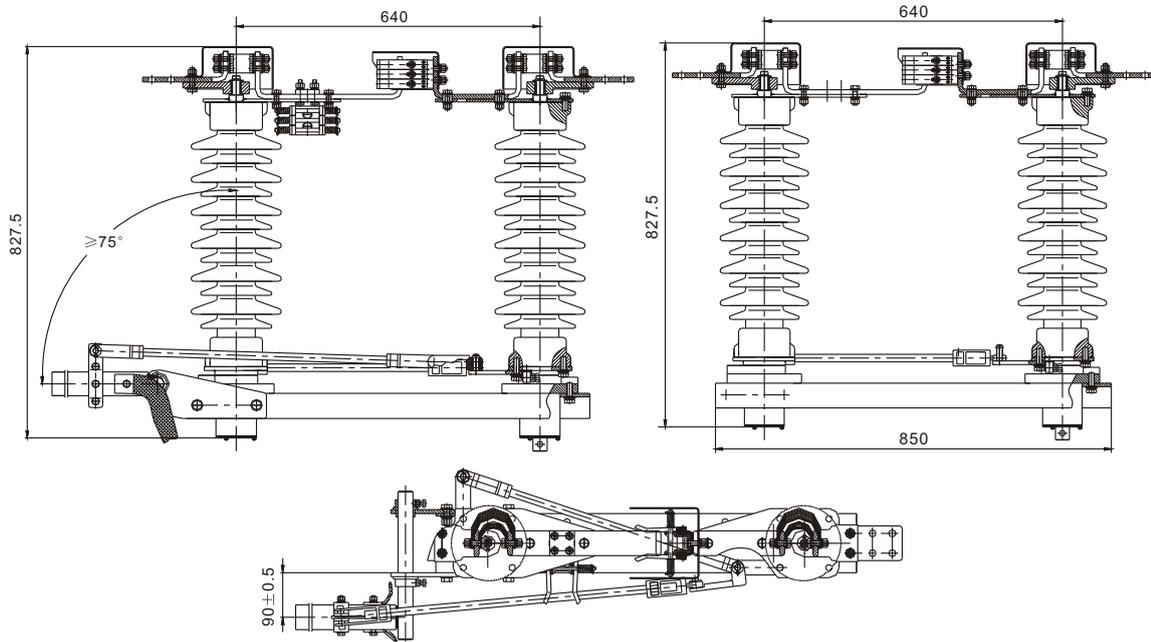
1. Disconnect switch consists of frame, operating insulating, static contact and operating mechanism.
2. There are two braces on each pole, electric blade installed on the top of each brace and the connection point of the two blades is between the two braces. With the driving of operating mechanism, the two blades can rotate horizontally ninety degree to close.
3. Long term mechanical life.
4. Soft copper conductor connect with electric plate and connection frame separately, this structure will reduce the connection resistance.
5. Tinned soft copper take current can reduce the temperature rising, main contact finger with stainless steel spring, this can make sure steady circulation and avoid spring rust and failure occurring.
6. Disconnect switch is single phase, three single-pole disconnect switches into a linkage three e-pole switch through in terlink rod. It can be matched with CS17 I type manual mechanism or motor mechanism.
7. Reasonable structure, flexible operating, convenient installation, able to use by single pole or three pole, wide distance of contact, safe and reliable insulating.

### Technical specification

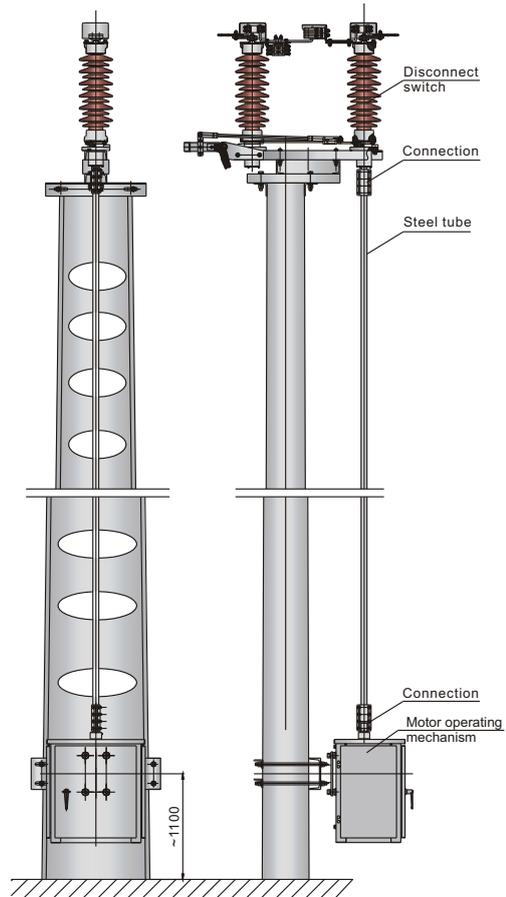
No.	Item	Unit	Data	
1	Rated voltage	kV	27.5	
2	Rated current	A	630	1250/1600
3	Rated short-time withstand current	kA	20	31.5
4	Rated peak withstand current	kA	50	80
5	1min P.F withstand voltage (dry)	kV	To earth:95 across open contacts:115	
6	Rated lightning impulse withstand voltage	kV	To earth:185 across open contacts:215	



## Outline dimension



Drawing 1 GWHY1-27.5D Disconnect switch outline drawing



Drawing 2 GWHY1-27.5D Disconnect switch