HERG[®]4¥12

GWR□-12/24/40.5-100 Outdoor AC High Voltage Disconnect Switch (Fuse)

Summary

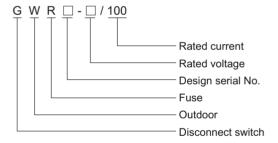
GWR□-12/24/40.5-100 outdoor AC. high voltage fused type disconnect switch (disconnect switch for short) is used in electric power system with rated frequency 50/60Hz, rated voltage 12/24/40.5kV. Its main for making or breaking circuit under line supplying voltage in outdoor high voltage distribution system equipments. Thereof anti-pollution type disconnect switch is especially used in serious polluted area. It accords with standards of IEC62271-103: High voltage switches.



Ambient condition

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

Model



Structure feature

Disconnect switch is composed of fuse components, frame and operating insulator, fixed contact, contact blade and linkage spring mechanism.

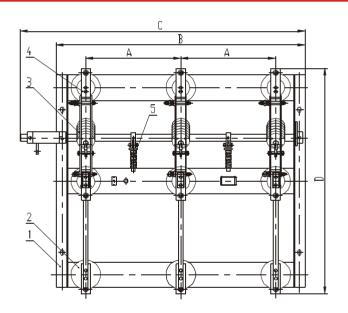
- 1. Cutout fuse assemble: mainly combine with upper, down movable and fixed contact, arc extinguish bushing, insulator and mount support parts, during normal work, the fuse linking the moving joint of the arc extinguish bushing with movable contactor, the arc extinguish bushing is at closed position under the pressure of the fixed contactor.
- 2. Frame: Base is bended from steel sheet, axis with pulling arm cross through frame center. Holes drilled on base are used for fixing post insulator.
- 3. Post and operating insulator: anti-erode post insulator.
- 4. Fixed contactor: contact blade made of red copper plate, fixed on post insulator and extended level plane end as for connecting wire and upside of curve connected both side reliable with contacting blade.
- 5. Contact blade: it's made of two rectangle section red copper plates, both ends of contact blade attached with spiral spring to adjust contacting pressure.
- 6. Switch could be operated combined with CS□ mechanism vertical mounting on outdoor double electric poles.

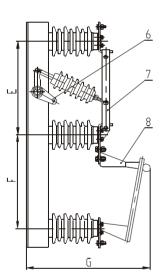
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Technical specification

No.	Item			Data		
1	Rated voltage			12/24	40.5	
2	Rated current			100	100	
3	Rated frequency			50/60	50/60	
4	Maximum breaking current			5	5	
5	Main circuit resistance			≤150	≤150	
6	1min. PF withstand voltage (dry)		kV	42/48, 75	95/115	
7	1min. PF withstand voltage (wet)	phase to phase/earth across open contacts		30, 60	85	
8	Lightning impulse withstand voltage	across open contacts		95/110, 145	185/215	
9	Mechanical life	disconnect switch	- .	2000	2000	
	Wechanical life	fuse cutout	Times	300	300	

Outline dimension





Type	Main outline dimension (mm)							
i ype	Α	В	С	D	E	F	G	
GWR□-12/100	400	1050	1200	1073	400	490	667	
GWR□-24/100	450	1060	1300	1173	450	543	550	
GWR□-40.5/100	500	1300	1450	1433	550	640	909	

1.Frame 2.Post insulator 3.Porcelain insulator 4.Contact 5.Spring 6.Rotate shaft corner arm 7.Disconnect blade 8.Cutout fuse

Drawing 1 GWR□-12,24,40.5/100 Outline dimension