GFLW-12/24/40.5 series of Pole mounted SF6 Load break switch is used for rated voltage 12/24/40.5kV, rated current 400A, 630A and 50/60Hz power distribution network, for load current and overload current of breaking and closing system, it could separate automatically track sections of the faulty power distribution line.

The switch is matched with electronic controller with the latest technology and it could be manual, motor and remote operation modes. This electronic controller would be installed inside the stainless steel box, so it could be used in various of climate conditions.

Besides that, the wire and wireless modem installed inside control box, it could realize remote monitoring and controlling. It's easy and convenient for installation of the switch on pole, and that could reduce the construction cost.

## **Environment condition**

- Ambient temperature: max. +50°C min. -40°C

- Altitude: ≤1000m (could also be 2000m, 3500m, 5000m as requested)

- Wind pressure: ≤700Pa(equals to wind speed 34m/s)

- Relative humidity: ≤100%

- Air contamination degree: IV degree- Earthquake intensity: ≤8 degree

- Not be polluted by corrosive or flammable gas

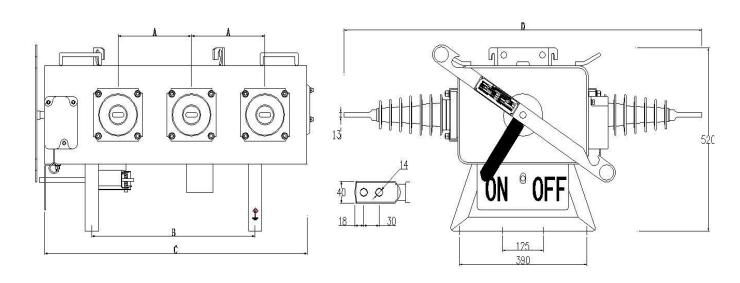
- No frequent violent vibration or explosive place

## **Technical Data**

Technical Data	0=111/	0=111101	0=1111 10 =	
Model	GFLW-12	GFLW-24	GFLW-40.5	
Rated voltage	12KV	24kV	40.5kV	
Rated current	630A	630A	630A	
Rated frequency	50/60Hz	50/60Hz	50/60Hz	
Short time withstand current	20kA/1sec	20kA/1sec 20kA/1		
Making and Bre	aking Capacity			
Main Active Load Current	630A	630A	630A	
Number of Load-break Operations	400 Times	400 Times	400 Times	
Short-time Making Current (peak)	50kA	50kA	50kA	
Number of Making Current Operations	5 Times	5 Times	5 Times	
Cable Charging Current	25A	25A	25A	
Line Charging Current	1.5A	1.5A	1.5A	
Closed Loop Circuit Current	630A	630A	630A	
Transformer Magnetizing Current	22A	22A	22A	
Power Frequency Wit	thstand Voltage Test			
Wet Condition-10sec Phase to Phase, Phase to Earth, Across Interrupters	45kV 50kV		70kV	
Dry Condition-1min Phase to Phase, Phase to Earth	50kV	64kV	95kV	
Dry Condition - 1 min Across Interrupters	50kV	79kV 110k\		
Impulse Withstand Volt	age Test( 1.2 x 50 μs	)		
Phase to Earth	85kV	125kV	195kV	

Across Interrupter	95kV	145kV	215kV					
Other Ratings & Specifications								
Internal Arc Test	20kA /0.1 sec	20kA /0.1 sec	20kA /0.1 sec					
Arc Extinction Medium	SF 6 Gas	SF 6 Gas	SF 6 Gas					
Insulation Medium	SF 6 Gas	SF 6 Gas	SF 6 Gas					
Creepage Distance (Porcelain Bushing)	380mm	700mm	1055mm					
Creepage Distance (Silicone Rubber Bushing)	540mm	700mm	mm					
IP Level	65	65	65					
Mechanical Performance								
Closing/Opening Time	<1sec	<1sec	<1sec					
Mechanical Operations (Guaranteed)	10000 Times	10000 Times	10000 Times					
Operating Temperature (Manual Type)	-25∼+70℃	-25∼+70℃	-25∼+70℃					
Gas Pressure								
Nominal Pressure (MPa, at 20°C)	0.07	0.07	0.07					
Explosion Pressure (MPa)	0.4~0.6	0.4~0.6	0.4~0.6					
Minimum Gas Pressure (MPa)	0.05	0.05	0.05					
Gas Leakage Rate (cc/ sec)	≪0.5%	≪0.5%	≤0.5%					

## **Outline Dimension**



Dimension (mm)					Mounting Size (mm)	Bushing creepage Distance (mm)	Packing Size (mm)	Weight (KGS)
	А	В	С	D	L×W		$L \times W \times H$	

12KV	225	500	803	1056	500×125 (390)	500×125 (390)	1100×900×700	105
24KV	300	650	953	1250	500×125 (390)	500×125 (390)	1300×1100×700	145
40.5KV	400	850	1153	1380	700×125 (390)	700×125 (390)	1400×1200×700	165