

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

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/1sec
Making and Breaking 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 Withstand 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	110kV
Impulse Withstand Voltage Test(1.2 x 50 μs)			
Phase to Earth	85kV	125kV	195kV

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