

ISO9001: 2000 Quality System Certification



AFW-12/24 (FLW-12) type

Outdoor medium voltage SF6 load break switch



Asia Electrical Power Equipment (Shenzhen) Co., Ltd

亚洲电力设备（深圳）有限公司

Address: Bldg 28, Lishan Industrial Zone, Xinghai road, Nanshan District, Shenzhen, P.R.China

Tel: +86 755 86061018/86060122/86060136-225 Fax: +86 755 86060133

E-mail: sales@aepe.com.cn sznaiji@hotmail.com webstation: www.aepe.com.cn

General Description

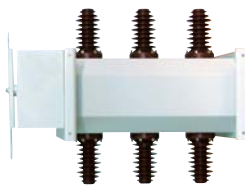
AFW-12/24 type outdoor medium-voltage SF6 load switch is the outdoor distribution equipment with the rated voltage of 12kV、24kV and the three-phase alternating current 50Hz. It is mainly used to make and break rated current or regulate overload current on aerial circuit, which is suitable for the aerial distribution system of city and country's electric network、transformer、substations、and mining and industrial enterprises. It is in conformity with the standards of GB3804-1990《3-63 Alternating Current Medium Voltage Load Switch》、IEC60256-1(1997).

Specification

No.	Item	Unit	Parameters	
1	Rated voltage	kV	12	24
2	Rated current	A	630	
3	Rated frequency	Hz	50	
4	Rated short time withstand current 2s	kA	25	
5	Rated short circuit making current (Peak Value)	kA	63	50
6	Breaking performance	Rated close loop/ active load breaking current	A 630	
7		Rated cable charge breaking current	A	10 25
8	1 min Power frequency withstand voltage	Common value	kV	42 50
		Across insulate distance	kV	48 60
9	Lightning impulse withstand voltage	Common value	kV	75 125
		Across insulate distance	kV	85 145
10	Gas charge pressure (20℃) (Relative pressure)	bars	0.04	
12	Mechanism lifetime	Times	5000	
13	Gas relative leakage rate	Year	≤0.05%	
14	Operation voltage	V	AC 220、110、48 DC220	
15	Weight	kg	50	
16	Protection degree		IP4x	
17	Major loop resistance	μΩ	≤50	≤55

Structure and Features

- Fully sealed structure: good sealing capacity which conduces to strengthen anti-moisture and anti-dew capacity, suitable for the humid areas with high temperature so that to effectively avoid the mechanical corrosion caused by long time exposure outdoor for the load switch. Free of maintenance within the time limit for mechanical life. The whole structure is compact and reasonable with small volume and lightness less than 50kg;
- Main loop is sealed inside the crust made of stainless steel, SF6 gas with the relative pressure of 0.07Mpa is charged to the inside as arc-extinguishing and insulation medium;
- Equipped with the pressure switch that can indicate the gas pressure, in case the gas pressure lowers down, the switch will stop operating;
- Anti-explosion valve is designed for the bottom, in case the malfunction occurs inside, high pressure gas will be released from anti-explosion membrane in order not to injure operator or damage other parts.



Service Conditions

- Altitude ≤ 1000 meters;
- Ambient temperature outdoor: -40℃ ~+40℃ ; daily temperature difference: daily variable average value ≤ 35℃;
- Wind pressure ≤ 700Pa;
- Earthquake intensity ≤ 8 degree;
- No danger of inflammability and explosion, no chemical corrosion and drastic shake;
- Dirtiness-proof capacity: IV grade.

Test Report

