



AFL (A) -12/24D (FLN36A-12D) type  
SF6 Load break switch



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## General Description

AFL (A)-12/24D, an indoor medium-voltage SF6 load switch and an switchgear with the rated voltage of 12kV、24kV, is adopted with SF6 gas as an arc-extinguishing and insulation medium, including the three contactors for switching-on, switching-off and to-ground, and is characteristic in its small volume, its convenient installation and operation, and its the great adaptability with surroundings.

AFL(A)-12/24D of an indoor medium-voltage SF6 load switch and AFL(A)(R)-12D of SF6 load switch plus fuse combination can function to protect and control the electric equipments for power supply and transformer substations especially being suitable for ring main unit, cable branch cabinet and distribution switching substation.

AFL (A)-12/24D of an indoor medium-voltage SF6 load switch and AFL (A)(R)-12D load switch plus fuse combination are in conformity with the standards of GB3804-1990、IEC60256-1(1997)、GB16926、IEC60420 etc.

## Specification

No.	Item	Unit	Parameters		
1	Rated voltage	kV	12	24	
2	Rated frequency	Hz	50/60		
3	Rated current	A	630		
4	1min Power frequency withstand voltage	Common value	kV	42	50
		Across insulate distance	kV	48	60
5	Lightning impulse withstand voltage	Common value	kV	75	125
		Across insulate distance	kV	85	145
6	Rated short circuit breaking current (peak)	kA	63	50	
7	Rated active load and close circuit breaking current	A	630		
8	Rated transferring current	A	1700	1000	
9	Rated short circuit making current (peak)	kA	63	50	
10	Rated cable charge breaking current	A	50 and 10		
11	Cable charge breaking current in earthing malfunction	A	20		
12	Rated withstand current (peak)	kA	63	50	
13	Short time withstand current (2s)	kA	25	20	
14	Mechanism life	Times	5000	2000	

### Classical Combination

For upper unit, the load switch is assembled with it by module type standardization, with the integration of load switch, operating mechanism, interlocking device, tripping device and panel. The debugging for all of the functions is accomplished before out of factory, and users can install it directly to the lower unit.



### Service Conditions

- A. Altitude  $\leq$  2500 meters;
- B. Ambient temperature:  $-35^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ;
- C. Humidity:
  - daily average relative humidity  $\leq$  95%
  - monthly average relative humidity  $\leq$  90%
- D. Ambient air not apparently polluted by corrosive and flammable gas, vapor etc.;
- E. No frequent violent shake.

### Test Report

