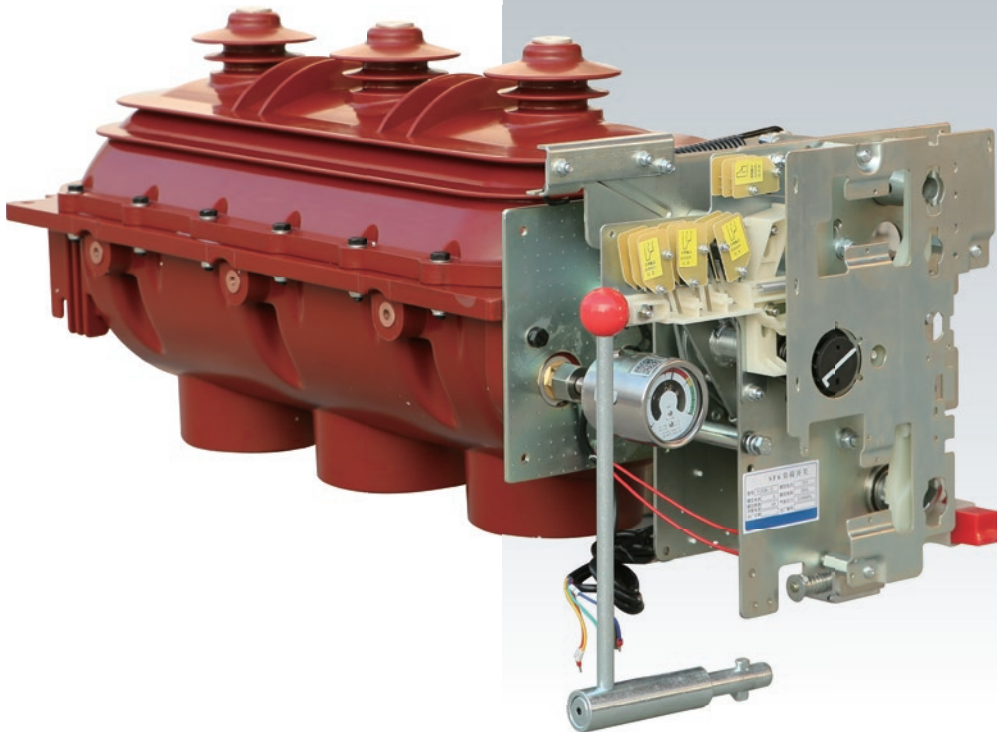


FLN36-12D FLRN36-12D

Medium Voltage Switches SF6 Gas Insulated
Load Break Switch



Overview

FLN36-12D/FL(R)N36-12D series indoor high pressure sulfur hexafluoride load switch is a medium voltage switch equipment developed by our company with reference to international new technology and according to the relevant standards of China's power system. Its performance indicators are in line with IEC420, 694, 129 and the national standard GB3804-2004 "3.6kV-0.5kV high voltage AC load switch", GB1985-2004 "High voltage AC isolation switch and ground switch", GB/T11022-1999 "High voltage switchgear and control equipment standard common technical requirements", are the main switching components of the ring network cabinet.

The load switch is a multi-functional medium voltage switchgear that integrates gate, opening and grounding. It is filled with 0.05MPa SF6 gas in a fully sealed epoxy resin shell with reinforced structure, and achieves the above three functions with fewer parts, ensuring product quality and improving reliability. Maintenance-free, safe operation for more than 20 years under normal conditions.

FLN36-12D/FLRN36-12D

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Model meaning

F	L	N	36	-	12	D	/	T	630	-	12
↓	↓	↓	↓		↓	↓		↓	↓		↓
Load switch	Sulfur hexafluoride	Indoor	Design sequence number		Rated voltage (KV)	With ground switch (without D)		Spring operating mechanism	Rated current (A)		Rated short-time withstand current (kA)

F	L	R	N	36	-	12	D	/	T	125	-	31.5
↓	↓	↓	↓	↓		↓	↓		↓	↓		↓
Load switch	Sulfur hexafluoride	Fuse	Indoor	Design sequence number		Rated voltage (KV)	With ground switch (without D)		Spring operating mechanism	Rated current (A)		Rated short-time withstand current (kA)

Environmental conditions of use

- Altitude: 1000m and below
- Ambient temperature: -15°C ~ +40°C
- Relative humidity: the daily average is less than 1000 95%, the monthly average is not more than 90%
- The surrounding air is not significantly contaminated by smoke, dust, corrosive or combustible gases, water vapor or salt spray
- No frequent violent vibration

Main use

FLN36-12D/T630-20 indoor AC high voltage six krypton sulfur load switch and FLRN36-12 D/T125-31.5 indoor AC high voltage six 氟 sulfur load switch-fuse combination, suitable for three-phase AC 50Hz ring network or terminal power supply power station and industrial electrical equipment, As a 10KV power system load control line protection.

The load switch divides the load current, closed-loop current, no-load transformer and cable charging current; The combined electric appliance can break any current to the rated short-time breaking current, which is suitable for ring network units, box-type substations and other electrical equipment, especially for urban residential distribution, small secondary substations, opening and closing offices, industrial and mining enterprises, large shopping malls, airports, railway hospitals, sports venues, etc.

Basic functions and features

- The load switch adopts double break, rotary moving contact structure, with the following three operating states: closing; Opening the brake; Be grounded.
- SF6 gas is used as arc extinguishing and insulating medium, the main circuit is sealed in the upper and lower shell cast by epoxy resin, and the electrical conductivity is not affected by the external environment.
- Good safety performance if the internal arc occurs, there is a structural weakness inside the shell, it will be blown open, and then the arc relief valve above the cabinet will be opened to guide the overpressure air to the outside of the cabinet to ensure the safety inspection of the switch cabinet.
- The load switch set gate, opening gate and grounding switch are located in one body, which is packaged in the SF6 gas epoxy resin shell. The three positions are interlocked, compact structure, high safety and reliability.
- Small size, light weight, maintenance-free, easy to operate and safe.

FLN36-12D/FLRN36-12D

Medium Voltage Switches SF6 Gas Insulated Load Break Switch



Main technical parameters

Name		Units	Argument
Rated voltage		kV	12
Rated frequency		Hz	50
Rated current		A	630
Rated peak withstand current		kA	50
4s rated short-time withstand current		kA	20
Rated closing current		kA	50
Rated breaking current	Active load breaking current	A	630
	Closed-loop breaking current	A	630
	Cable charging breaking current	A	10
Power frequency withstand voltage 1min phase, ground/fracture		kV	42/48
Lightning impulse withstand voltage phase to phase, ground/fracture		kV	75/85
Sf6 gas relative pressure (20°C gauge pressure)		MPa	≤ 0.04
Rated operating voltage (electric)		V	AC220、DC220
Rated voltage of shunt trip		V	AC220、DC220
Average opening speed		m/s	3.5±1.5
Average closing speed		m/s	3.5±1.5
Three phase switching synchronization		ms	≤ 3
Main loop resistance		μΩ	≤ 120
Manual operation is most in torque		N.m	≤ 160
Interphase center distance		mm	210±0.5

Dimensions and mounting dimensions (mm)

