

FLN36-12D/FLRN36-12D

Sulfur Hexafluoride Load Switch Indoor Type& Combination of electrical of fuse

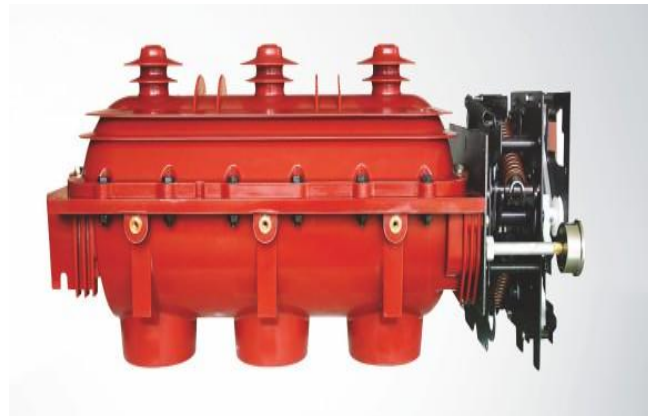


1. General

1.1 Ratings: Rated voltage up to 12kV, Rated current up to 630A, AC50Hz

1.2 Application: for the control and protection of substation and equipments; making and breaking short-circuit current under various operating status of electric network.

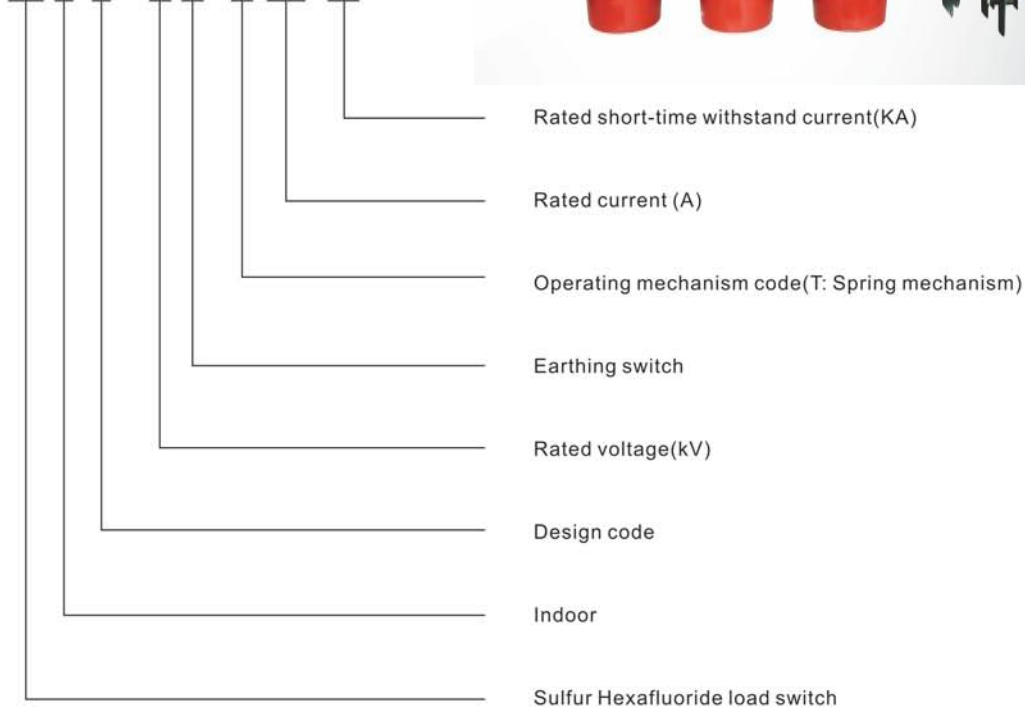
1.3 Standard: IEC62271-105



2. Type and Interpretation

2.1 Load switch

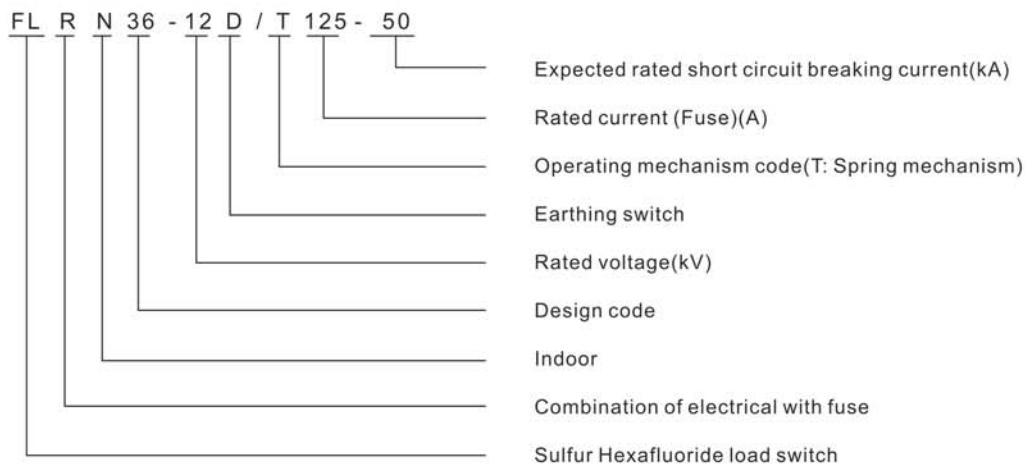
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2.2 Load switch- Combination of electrical



3. Working Condition

- 3.1 Ambient air temperature: $-15^{\circ}\text{C} \sim +40^{\circ}\text{C}$.
- 3.2 Altitude: $\leq 1000\text{m}$
- 3.3 No operating in such places as subject to dust, smog, corrosive/flammable gas, vapor and salt pollution.
- 3.4 Relative humidity: Daily average $\leq 95\%$
Monthly average $\leq 90\%$
- 3.5 Water vapor pressure: Daily average $\leq 2.2\text{kPa}$
Monthly average $\leq 1.8\text{kPa}$
- 3.6 The external shocking and earthquake from the switchgear and control equipment could be neglected.
- 3.7 The amplitude of electromagnetic interference in the secondary system $\leq 1.6\text{kV}$

※Note:

△ Customized products for other special working conditions are available on your requirements.

4. Features:

- Easy operation and installation
- Connection combination is simple and convenient
- With SF6 Gas pressure gauge
- Insulation and sealed structure,
- Reliable interlock, compact design

5. Operating mechanism

- 5.1 Manual Spring operation mechanism(Fig.1)
 - 5.2 Electric Spring operation mechanism(Fig.2)
- (Operation voltage: AC220V, DC220V)

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6. Main Technical Parameter

6.1 data

No.	Item	Unit	Data		
			FLN36-12D	FLRN36-12D	
6.1	Rated voltage	kV	12		
6.2	Rated frequency	Hz	50		
6.3	Rated current	A	630	125	
6.4	Load switch rated short-time withstanding current/Rated short-circuit duration time	kA/s	20/3	-	
6.5	Earthing switch rated short-time withstanding current/Rated short-circuit duration time	kA/s	20/3	-	
6.6	Rated peak withstanding current and rated short-circuit making current	kA	50	125(expected)	
6.7	Rated insulation level	1min power frequency with stand voltage(Phase to earth, between poles, open contacts)	kV	42/48	42/48
		Rated lightning impulse withstand voltage(Phase to earth, between poles, open contacts)	kV	75/85	75/85
6.8	Rated breaking current	Power load breaking current	A	630	-
		Close loop breaking current	A	630	-
		5% Power load breaking current	A	31.5	-
		Breaking cable charge current	A	10	
		Breaking no-load transformer capacity	kVA	1250	1250
		Breaking transfer current	A	-	1700
	Expected short-circuit breaking current	kA	-	50	
6.9	Mechanical life(grade M2)	times	20000		
6.10	SF6 rated Gas pressure value(at 20°C)	MPa	0.04~0.05	0.04~0.05	

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6.2 Data of fuse

Item	Rated voltage (kV)	Fuse Rated current(A)	Fuse Parts Rated current(A)	Rated breaking current(kA)
SDLAJ	12	40	6.3,10,16,20,25,31.5,40	50
SDLAJ	12	100	50,63,71,80,100	50
SDLAJ	12	125	125	50

6. Operating mechanism

Fig.1 TII type manual spring operation mechanism

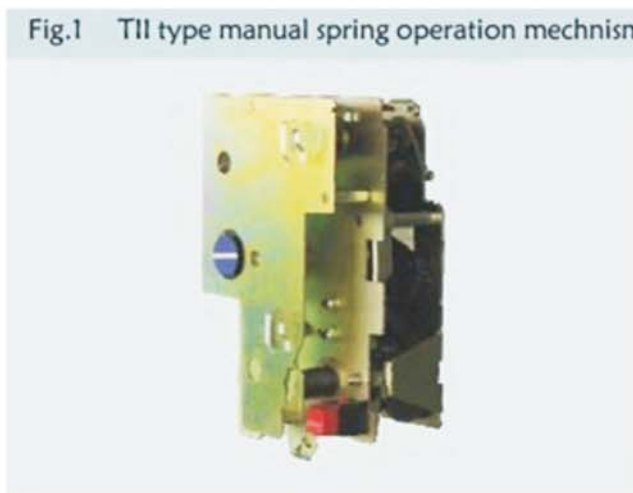


Fig.2 TII type motor spring operation mechanism

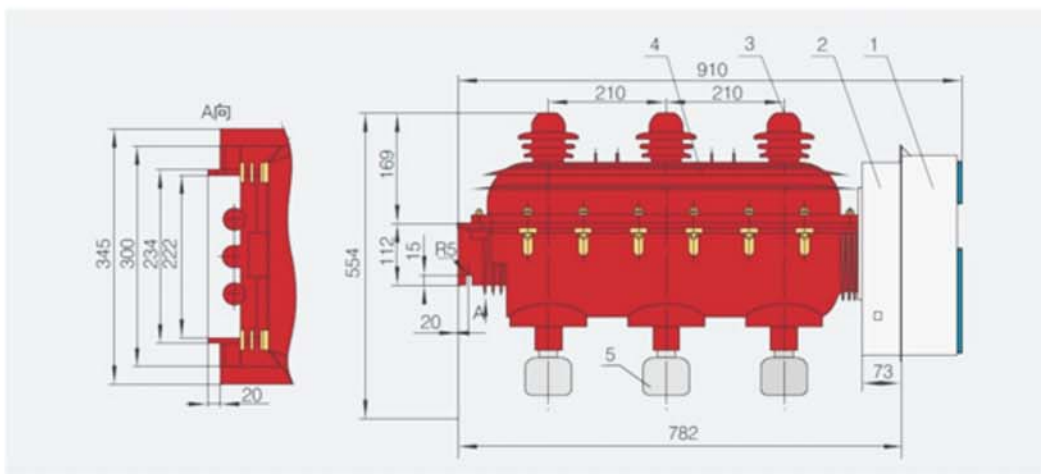


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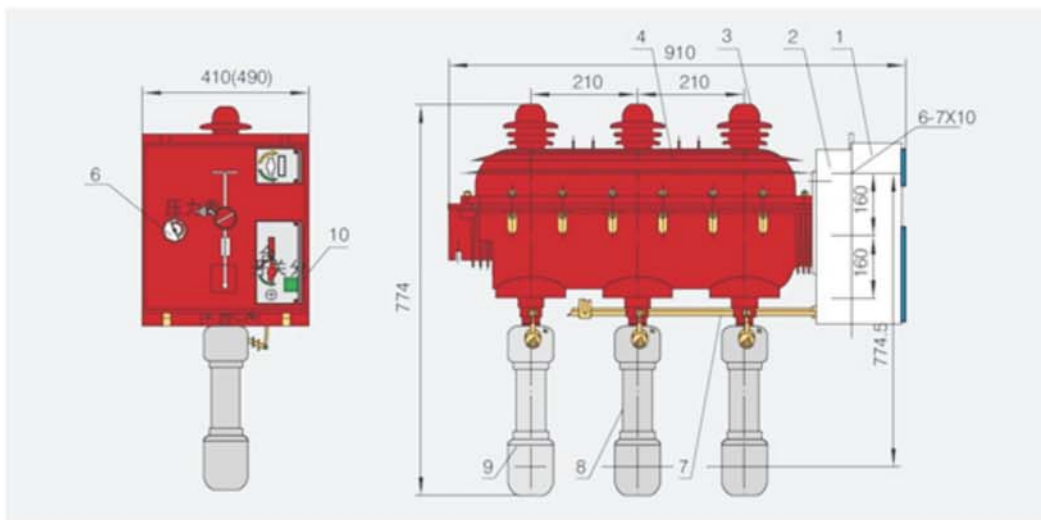
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7. Overall and Installation Dimension

7.1 For Load switch



7.2 For Combination of electrical

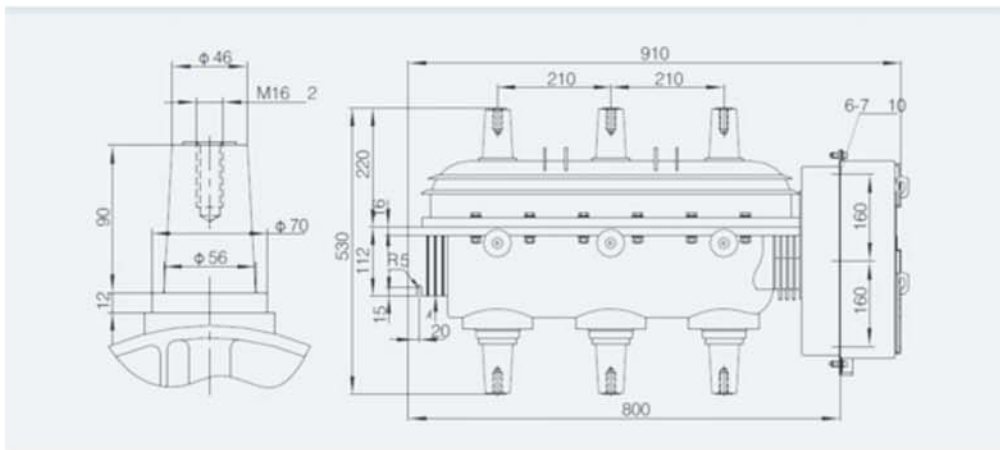


- | | | | |
|--|---------------------------|--------------------------------------|-------------------------|
| 1. Cover | 2. Mechanism | 3. Upper of terminal block shielding | 4. Load switch itself |
| 5. Lower of terminal block shielding or contact socket on fuse | 6. SF6 Gas pressure gauge | | |
| 7. shocking trip system | 8. Fuse | 9. contact socket under fuse | 10. Breaking pushbutton |

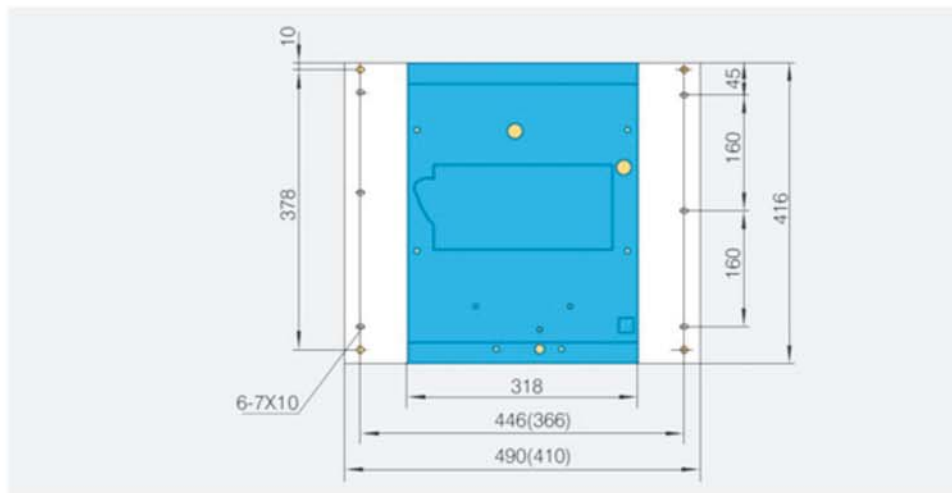
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7.3 For load switch connecting Europe type cable gland



7.4 For switch



6. Ordering Information

Please indicate the following items when order:

- 6.1 Type, name and parameters and quantity
- 6.2 Disconnecter is needed or not.
- 6.3 Rated operation voltage
- 6.4 Variable ratio , accuracy, quantity and output capacity of the current transformer.
- 6.5 Name and quantity of spare parts.

Note: Customized products are available per your requirements.