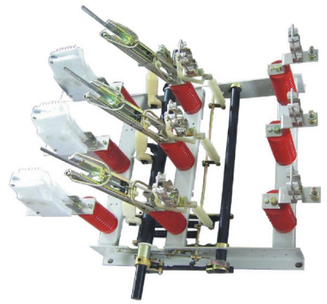
FN7-12/24 DR AC High Voltage Load Break Switch

Summary

FN7-12/24 DR model AC and HV indoor load break switch applies to three -phase power supply system of rated voltage 12/24kV and AC 50/60Hz. It used to switch on and off load-breaking current and short-circuit current. It is made as per IEC62271-105.



Ambient condition

1. Altitude: ≤1000m;
2. Ambient temperature: -25℃~+40℃;
3. Relative humidity: daily average ≤95%, monthly average ≤90%;
4. Earthquake intensity: ≤8 degree;
5. Applicable occasions should free from inflammables, explosives, corrosives and severe vibration.

Technical specification

Main specification: Sheet 1

Type	Model	DS	DX	L	R	RA	F
		Earthing switch at input terminal	Earthing switch at output terminal	Interlock device	Fuse	Impact release	Power closing device
No release	FN7-12/24	-	-	-	-	-	-
	FN7-12/24DSL	△	-	△	-	-	-
	FN7-12/24DXL	-	△	△	-	-	-
	FN7-12/24R	-	-	-	△	-	-
	FN7-12/24DSLR	△	-	△	△	-	-
	FN7-12/24DXLR	-	△	△	△	-	-
With Impact release	FN7-12/24RAF	-	-	-	-	△	△
	FN7-12/24DSLRAF	△	-	△	-	△	△
	FN712/24DXLRAF	-	△	△	-	e	e

Note :(-)without(△)with

Rated data: Sheet 2

Rated voltage (kV)	Max voltage (kV)	Rated current (A)	1min P.F withstand voltage (kV)	4s thermal stable current (virtual)(kA)	Dynamic stable current (peak)(kA)	Short circuit making current (kA)	Rated breaking current (A)	Rated transfer current (A)
12	12	400	42/48	12.5	31.5	31.5	400	1000
		630	42/48	20	50	50	630	1000
20	24	400	50/60	16	40	40	400	1000
		630	50/60	20	50	50	630	1000

Outline dimension

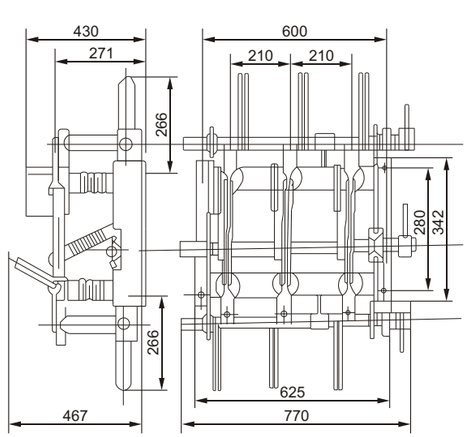


Diagram 1 "Line protection" load break switch without release

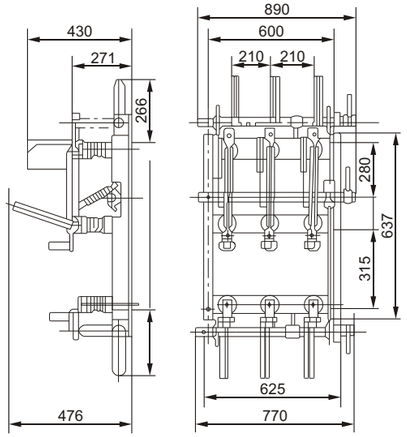
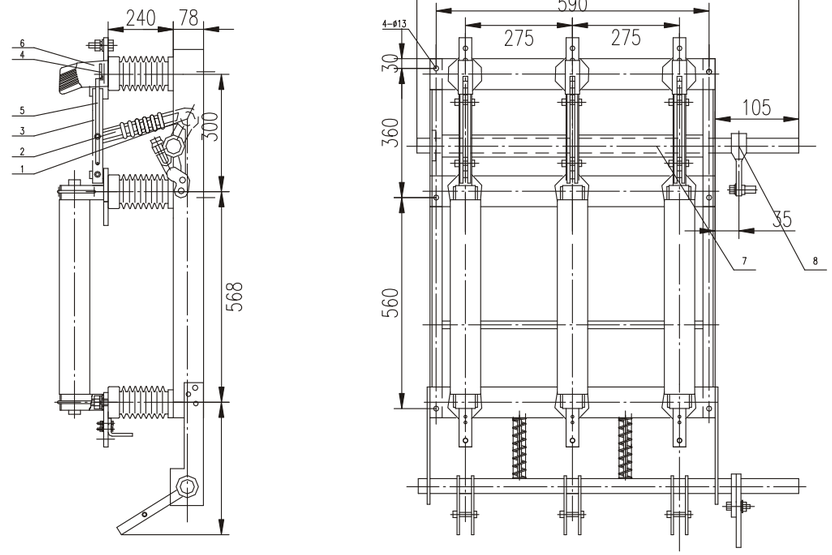


Diagram 2 "Transformer protection" load break switch without release



1.Main axis 2.Insulating rod 3.Blade 4.Contact 5.Arc contact
6.Arc extinguish chamber 7.Spring stored energy mechanism
8.On/Off operating arm

Diagram 3 Outline drawing of FN7-24D(With fuse and earthing blade)