

Product Selection Manual



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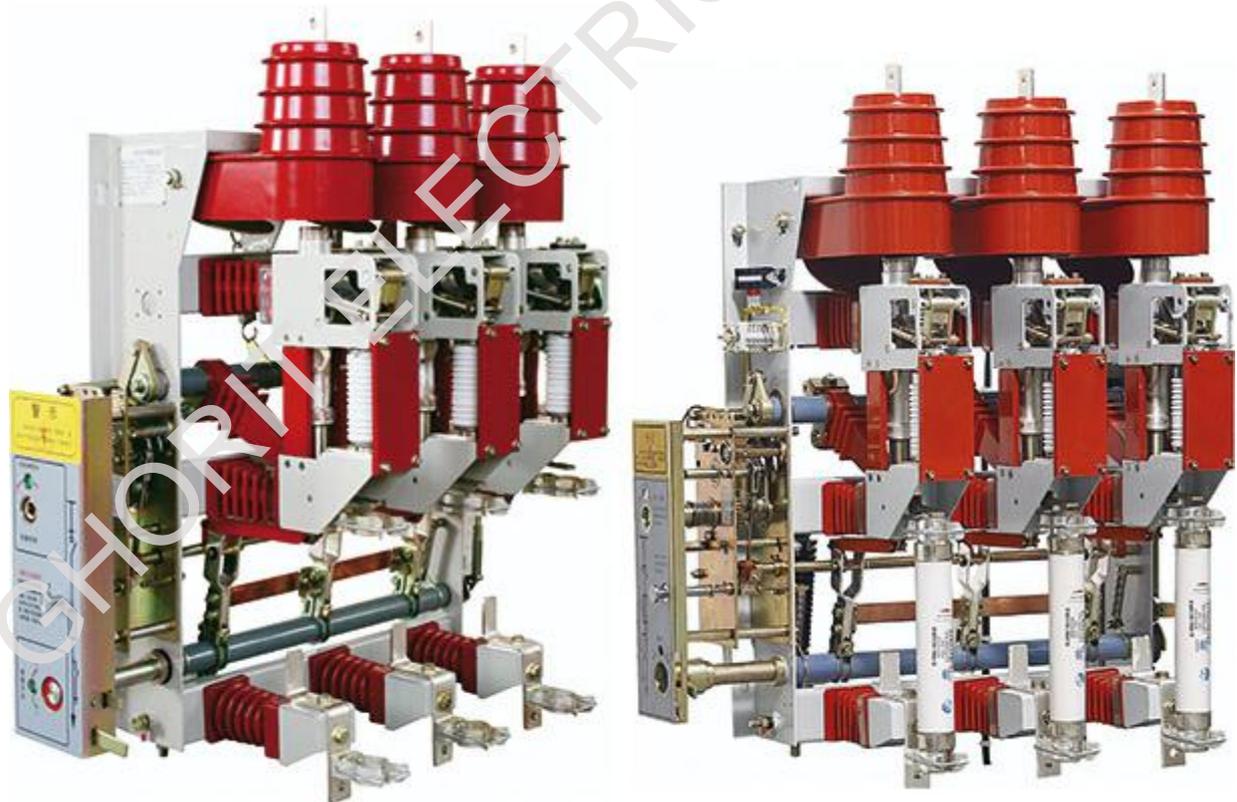


FZN25-12 Series

Indoor High Voltage Vacuum Load Break Switch

FZN25-12 indoor HV vacuum load break switch is a 3-phase AC 50Hz 12kV indoor switch equipment.

- ◆ Operating mechanism: spring operating mechanism, manual type and electrical type available;
- ◆ Operation type: right operation and left operation;
- ◆ Operation direction: left operation, right operation;
- ◆ Application: indoor 12kv switchgear.



※ Environmental Conditions

- ◆ Ambient temperature: -25°C ~ +40°C;
- ◆ Altitude: ≤1000m (above sea level);
- ◆ Relative humidity: daily average ≤95%, monthly average ≤90%;
- ◆ Earthquake intensity: ≤8 level;
- ◆ Pollution grade: II;
- ◆ Installation place without fire, explosion, chemical corrosion and serious vibration.

※ Technical Parameters

◆ Main technical parameters

NO	Item	Unit	FZN25-12D/T 630-20	FZRN25-12D/T 200-31.5
1	Rated voltage	kV	12	12
2	Rated frequency	Hz	50	50
3	Rated current	A	630	200
4	1min power frequency withstand voltage (Phase to earth, between poles, open contacts)	Phase-to-earth, phase-to-phase	42	42
		Isolating fracture	48	48
5	Rated lightning impulse withstand voltage (Phase to earth, between poles, open contacts)	Phase-to-earth, phase-to-phase	75	75
		Isolating fracture	85	85
6	Rated short time withstand current (thermal stability current)	kA	20	
7	Rated short circuit duration (thermal stability time)	s	4	
8	Rated short circuit making current (peak)	kA	50	
9	Rated active load breaking current	A	630	
10	Rated loop breaking current		630	
11	Rated cable charging current		10	
12	Rated no-load transformer capacity	kVA	1600	1600
13	Rated short circuit breaking current (limit current fuse)	kA		31.5
14	Rated breaking transfer current	A		2000
15	Fuse model			SDLAJ-12 SFLZJ-12
16	Striker output energy	J		2-5

NO	Item	Unit	FZN25-12D/T	FZRN25-12D/T
			630-20	200-31.5
17	Auxiliary circuit rated voltage	V	≈110 ≈220	≈110 ≈220
18	Earth switch rated short time withstand current	kA	20	20
19	Earth switch rated peak short circuit duration	S	2	2
20	Earth switch rated peak withstand current	kA	50	50
21	Rated short making current	kA	50	80(prospective peak value)
22	Mechanical life	times	10000	10000

◆ Mechanical property

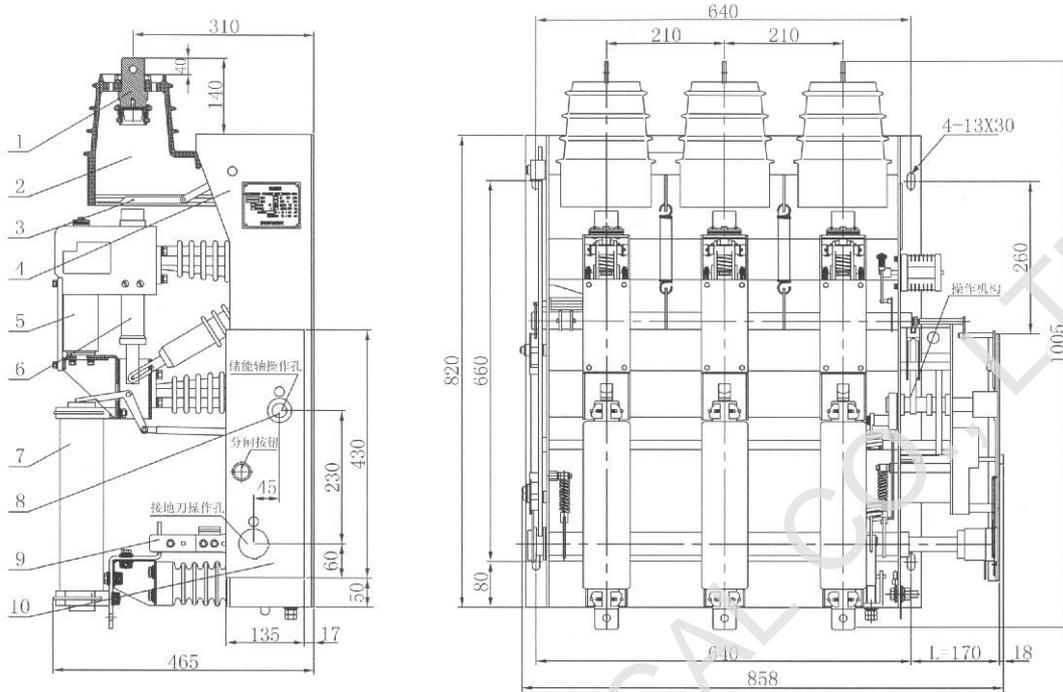
NO	Item	Unit	Value	
			FZN25-12 D/T630-20	FZRN25-12 D/T200-31.5
1	Air clearance between charged parts and to earth	mm	≥125	
2	Conducting tube insert into fixed contact holder depth	mm	>18	
3	Vacuum interrupter open distance	mm	600+1	
4	Vacuum interrupter contact spring compression length	mm	20+1	
5	Vacuum interrupter average closing speed	m/s	0.6±0.2	
6	Vacuum interrupter average opening speed	m/s	1.0±0.2	
7	Closing bouncing time	ms	≤2	
8	Three phase closing and opening synchronism	ms	≤3	
9	Main circuit resistance	μΩ	≤150	≤300
10	Manual operation maximum torque	n.m	≤160	
11	Fuse trigger opening time	ms	-	30-40
12	Release trigger opening time	ms	40-45	

◆ Energy storage motor parameters

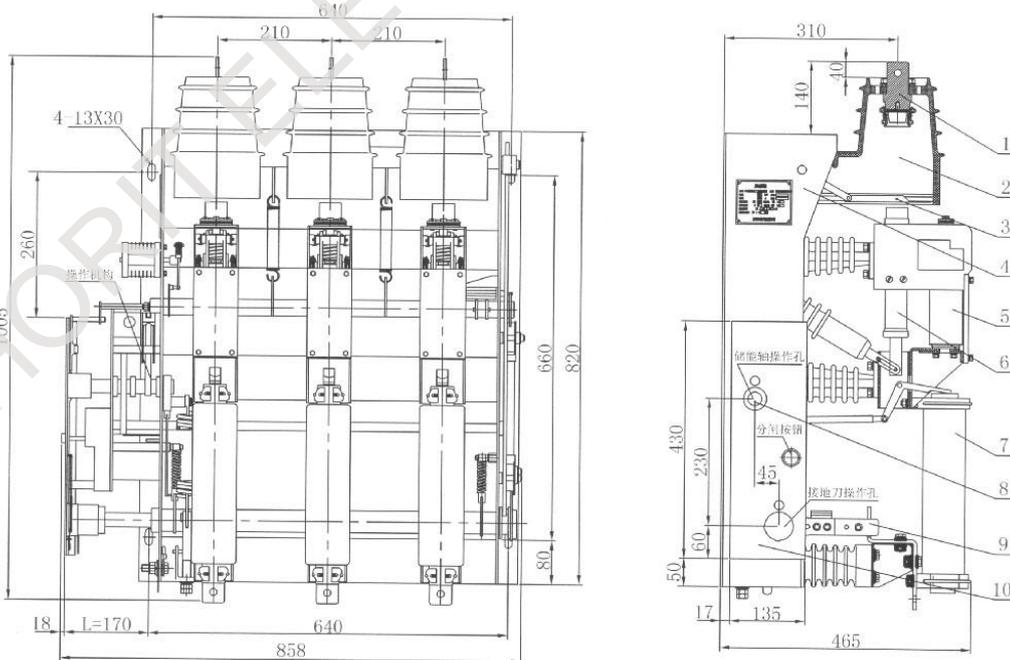
Model	Rated voltage V	Rated current A	Rated power W	Normal working voltage range
LLZY-CJ01B8	AC/DC220	0.7	70	85%-110% rated voltage
66ZY-CJ028	AC/DC110	1.5		

※ General Structure Drawing and Installation Size (unit: mm)

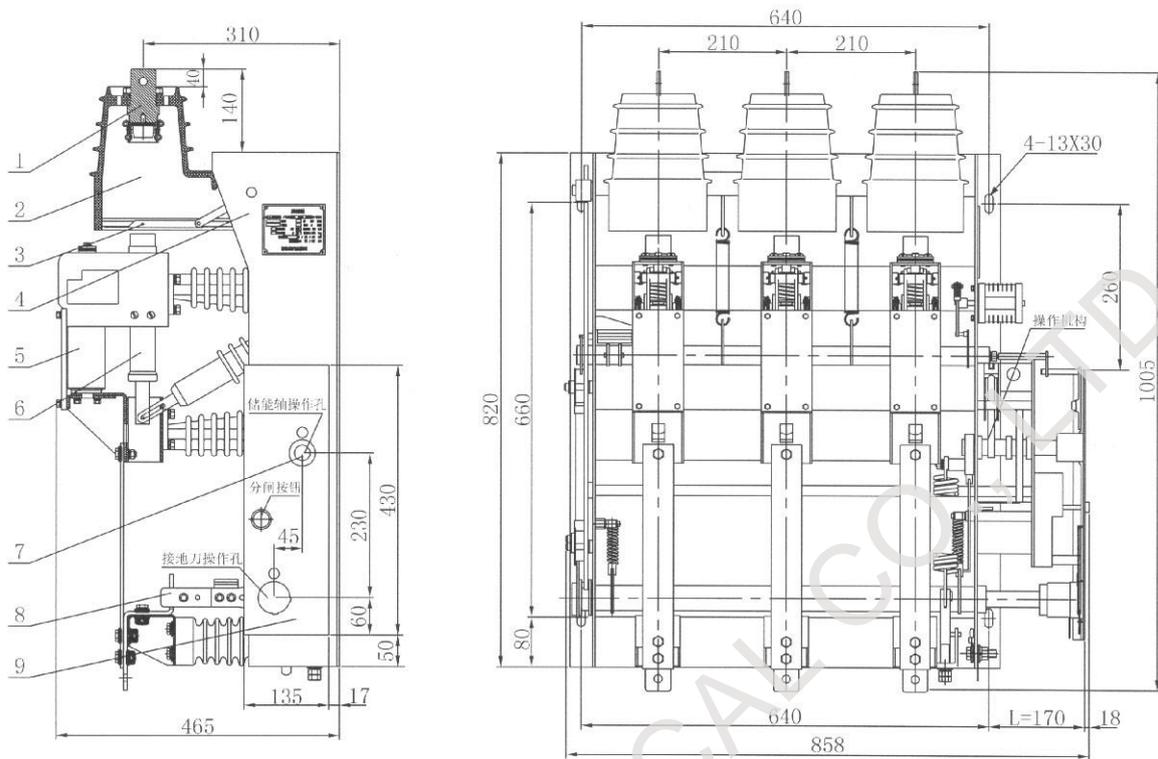
◆ FZRN25 right operation



◆ FZRN25 left operation



◆ FZN25 right operation



◆ FZN25 left operation

