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FZRN21-12D Indoor AC High Voltage Vacuum Load Break Switch-Fuse Combination Apparatus

Summary

FZRN21-12D indoor vacuum load break switch-fuse combination a pparatus applies to power system of rated voltage 7.2~12kV, AC 50/60Hz. It distributes power, control and protect electric apparatus. The apparatus replace expensive VCB to service in electricity network. It can also be used in rural and urban power supply systems to break and make under rated current and short-circuit current when the circuit breaks down. It is also applicable to control and protect transformers.It is made as per IEC62271-105.

Ambient condition

- 1. Altitude: ≤1000m:
- 2. Ambient temperature: -25°C~+40°C;
- 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.

Product feature

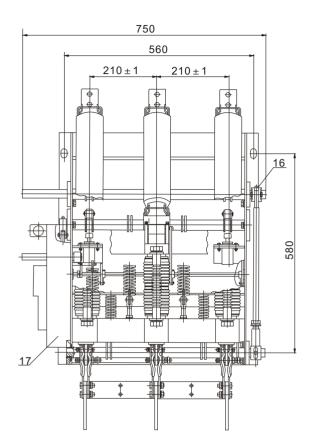
The load break switch is an interlock device of three-phase. The LBS is operated by electric motor or independent manual. The opening operation is of both independent manual and electric motor. There is reliable interlock between vacuum arc-extinguish chamber, disconnect blade and grounding blade. When the fuse breaks down, the load-breaking switch opens by the interlock mechanism. The load break switch can be mounted in switchgear and hang-on the wall to protect transformers.

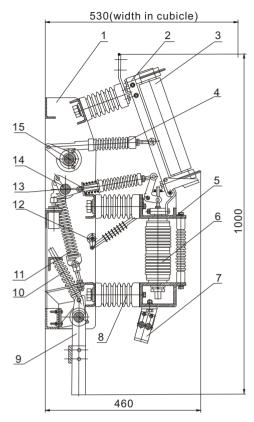
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No.	HRC Fuse		Data	
1	Rated voltage		12	
2	Rated frequency	Hz	50/60	
3	Rated maximum current of fuse		125	
4	Transfer current		1550	
5	Opening duration of switch activated by fuse		40 ± 5	
6	Rated short-circuit breaking current		31.5	
7	Rated short-circuit making current (peak)		80	
8	1min. PF withstand voltage (phase to phase/to earth, across open contacts)		42/49	
9	Lightning impulse withstand voltage (phase to phase/to earth, across open contacts)	kV	75/85	
10	Fuse impinger model		Middle	
No.	LBS	Unit	Data	
1	Rated voltage	kV	12	
2	Rated frequency	Hz	50/60	
3	Rated current		630	
4	Rated active load breaking current		630	
5	Rated closed-loop breaking current	Α	630	
6	5% of active load breaking current	Α	31.5	
7	Rated breaking current of charging cable	Α	10	
8	Rated breaking current of no-load transformer	Α	No-load current of 1250kVA transformer	
9	1min. PF withstand voltage(phase to phase/to earth, across open contacts)	kV	42/49	
10	Lightning impulse withstand voltage (phase to phase/to earth, across open contacts)	kV	75/85	
11	4s rated short-time withstand current	kA	31.5	
12	Rated peak withstand current		80	
13	Rated short-circuit making current	kA	80	
14	Mechanical life	Times	10,000	
15	Permissible corrosion thickness of contact	mm	2	
16	C/O operating moment	N • m	≤200	

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Outline dimension





1.Framework 2.Disconnect blade 3.Fuse 4.Insulating bar 5.Upper bracket
6.Vacuum interrupter 7.Fixed contact 8.Insulator 9.Earthing blade
10.Earthing spring 11.Opening spring 12.Trip driving device 13.Insulating bar
14.Main shaft 15.Auxiliary axis 16.Adjusting bar 17.Spring operating mechanism