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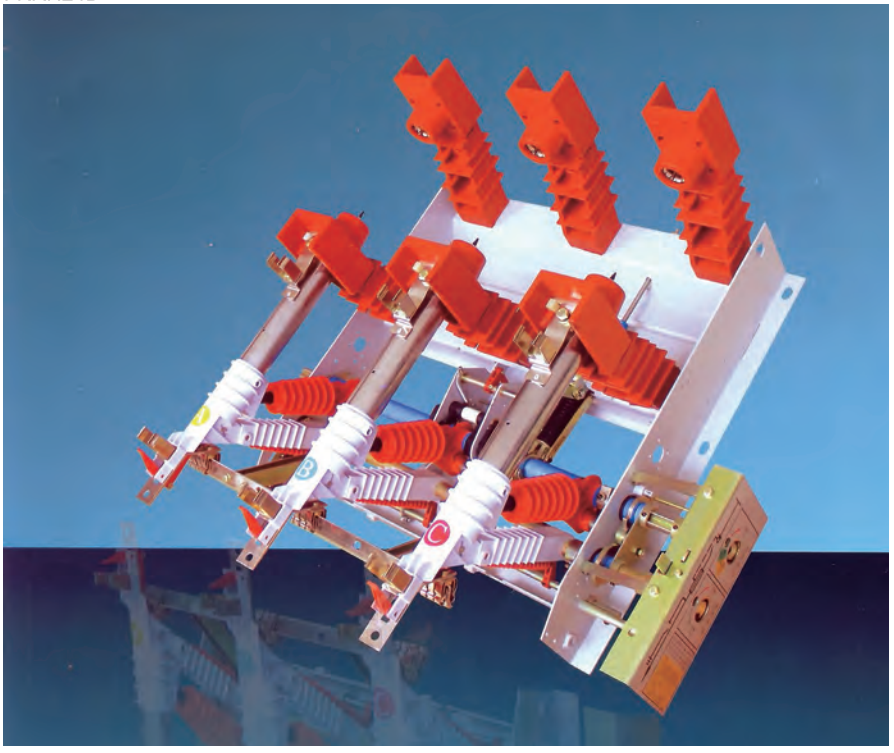
Indoor High Voltage Load Break Switch And Fuse Combination Apparatus

FKRN24D



General Description

FKRN24D when load break switch equip with high voltage current limited fuse(with striker),it comes into being load break switch and fuse combination apparatus,acting as protecting and control apparatus for transformers,cable and overhead wiring. When a phase or multiphase fuse fusing, load break switch automatic brake three-phase.
These series load break switch are especially applicable in rural,urban terminal substation and prefabricated substations, as well as ring network power supply.

Standard

□ GB3804-2004《3~63KV AC high voltage load break switch》
□ GB16926-2009《AC high voltage load break switch-fuse conbination apparatus》

Normal working condition

Altitude: no more than 1000m;
Anbient temperature: -10° C ~ +40° C;
Relative humidity: daily average no more than 95%, monthly average no more than 90%;
Earthquake degree: less than 8° C;;

Ambient condition

F K R N 24 D/ □

- Rated current
- Earthing switch
- Rated voltage
- Indoor
- HRC fuse
- Extinguish material(air)
- Load break switch

Technical specification

The technical specification of load break switch (including earthing switch),see form 1. Mechanical performance of load break switch,see form 2. Mechanical performance of earthing switch,see form 3.

Form 1: the technical specification of load break switch (including earthing switch)

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NO.	Item	Unit	Data
1	Rated voltage	KV	24
2	Rated power frequency	Hz	50
3	Rated current	A	630
4	Maximum rated current (fuse)	A	80
5	Rated active load open circuit current,rated closed-loop open circuit current	A	630
6	Rated short-time withstand current(2S)	kA	20
7	Ratedshort-circuit makingcurrent , Rated peak withstand current	kA	50
8	1minPF withstand voltage (phase to phase,phase to earth, across open contacts)	kV	65/79
9	Lightning impulse withstand voltage (peak) (phase to phase,phase to earth, across open contacts)	kV	125/145
10	Rated cable charging breaking current	A	16
11	Mechanical life	time	2000
12	Rated breaking transfer current	A	1050
13	Rated short-circuit breaking current (fuse)	kA	31.5

Form 2: mechanical performance of load break switch

NO.	Item	Unit	Data	Remarks
1	Middle distance of poles	mm	300 ±3	
2	Travel of conductive rod	mm	290±5	
3	Open distance between moving and fixed contact when in closing position	mm	>215	
4	Over-travel	mm	42±3	
5	closing speed	m/s	2.8	
6	opening speed	m/s	$>1.7^{+0.7}_{-0.2}$	
7	Three poles making asynchronous	ms	≯ 10	Closing between moving contact rod and touch
8	Three poles breaking asynchronous	ms	≯ 5	Opening between moving contact rod and touch

Form 3: mechanical performance of earthing switch

NO.	Item	Unit	Data	Remarks
1	Open distance between moving and fixed contact when in closing position	mm	>230	
2	Three poles making asynchronous	ms	≯ 10	

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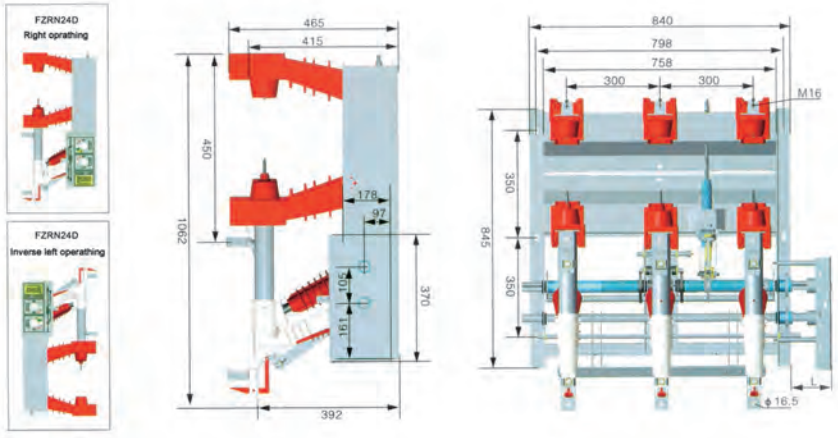
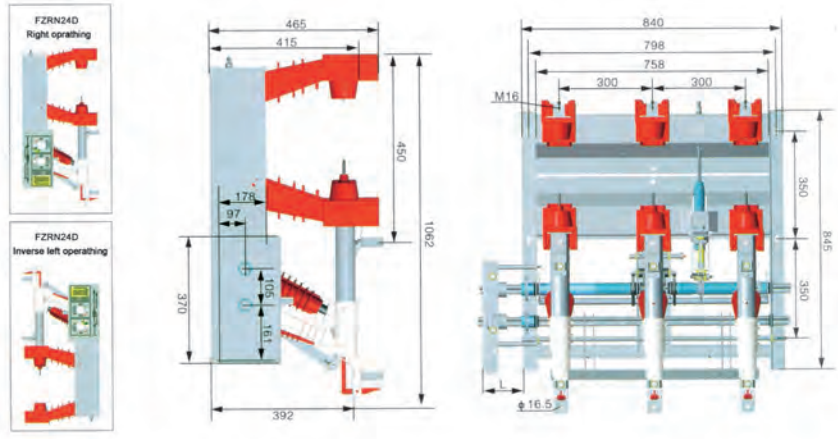
FKRN24D side-mounted right operation, upside down side-mounted left operation



FKRN24D side-mounted left operation, upside down side-mounted right operation



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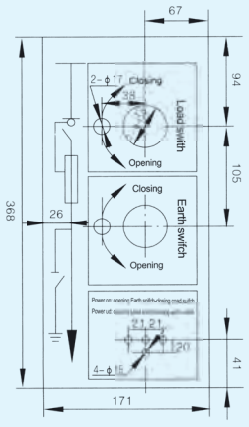
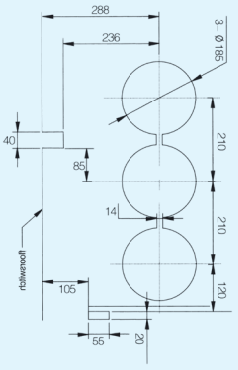
Trepanning size of panel

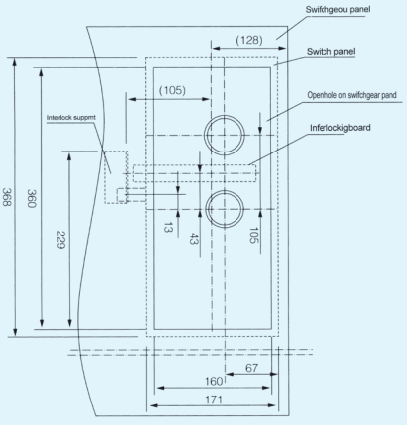


Charged display mauifing hole positionarawing

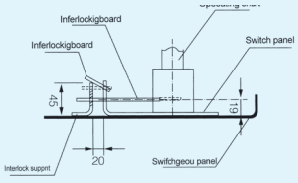


Open hole of bus uoom partifion drawing

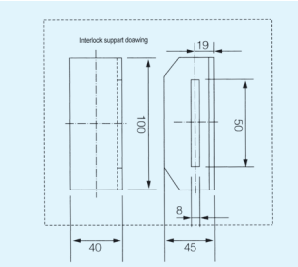
Operation panel dimension



Door interlock



Locking plate size drawing



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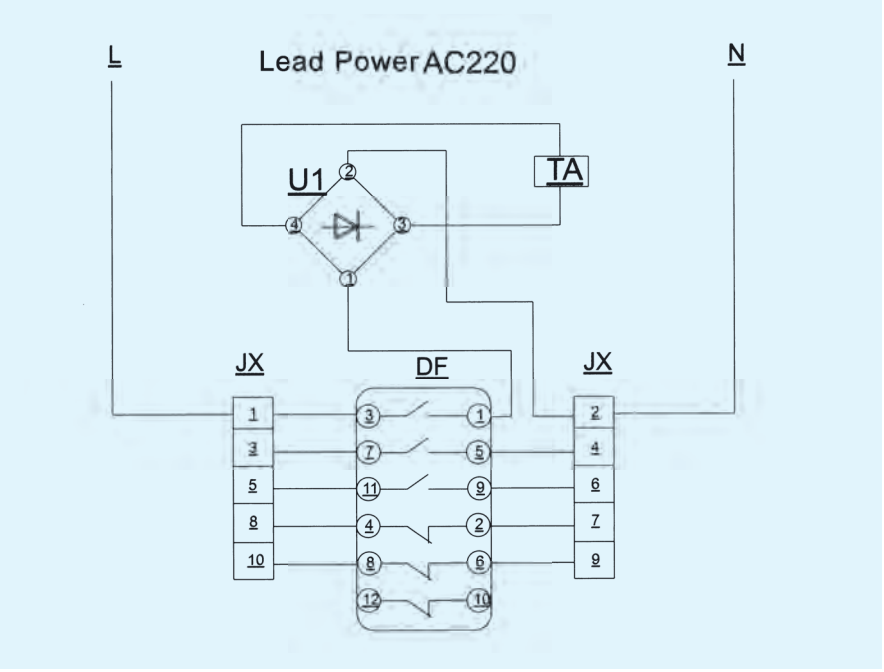
Electrical principle diagram



NO.	Symbol	Item	Remarks	Unit	Quantity
6				piece	
5				piece	
4	TA	Opening coil	AC220V	piece	1
3	U1	t0.07605;Silicon stack	KBPC25-10	piece	1
2	DF	Auxiliary switch	F10-10/W	piece	1
1	JX	Terminal	JH9-660V/15A	piece	1