

# Hubei Jucro Electric CO., LTD.

ADD: 5-1-2103, No.169-5, Tiychang North Rd., 443000, Yichang, Hubei, P.R.CHINA.

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## 1. General

This vacuum circuit breaker(VCB) is three-phase AC 50Hz, rated voltage 12kV outdoor high-voltage switch equipment. It is mainly used to opening(closing) load current, overload current and short-circuit current. It is suitable to protect or control the city or village electrical power distribution system.

## 2 .Main technical parameter

### 2.1Circuit breakers rated parameters

No.	Name	Unit	Value	
1	Rated voltage	KV	12	
2	The 1min rated power frequency withstand voltage		Phase to Phase, to Ground42 / Fracture 48	
3	Rated lightning impulse withstand voltage(peak)		Phase to Phase, to Ground42 / Fracture 48	
4	Rated current	A	630	1250
5	Rated frequency	Hz	50	
6	Rated short circuit breaking current	KA	12.5 16 20	25
7	Rated short-circuit current (peak)		31.5 40 50	63
8	Rated peak withstand current		31.5 40 50	63
9	4s rated short time withstand current		12.5 16 20	25
10	Rated operating sequence		O-0.3s-CO-180s-CO(Electric operation)	
11	Closing time	ms	30-60	
12	Opening time		20-40	
13	Rated short circuit breaking current breaking times	times	30	
14	Mechanical life		10000	
15	Secondary circuit 1min power frequency withstand voltage	V	2000	
16	Energy storage motor rated power	W	40	
17	Energy storage motor rated voltage	V	DC220/110	
18	Rated closing operation voltage		DC220/110, AC220/110	
19	Rated switching operation voltage		DC220/110, AC220/110	
20	Electric energy storage time	S	≤8	

### 2.2The main technical parameters of the isolation switch

No.	Project	Unit	Parameter
1	Rated voltage	KV	12
2	Rated current	A	630
3	Frequency	Hz	50
4	4s rated short time withstand current (rms)	KA	16/20
5	Rated peak withstand current		40/50
6	1min power frequency withstand voltage	KV	42
			48

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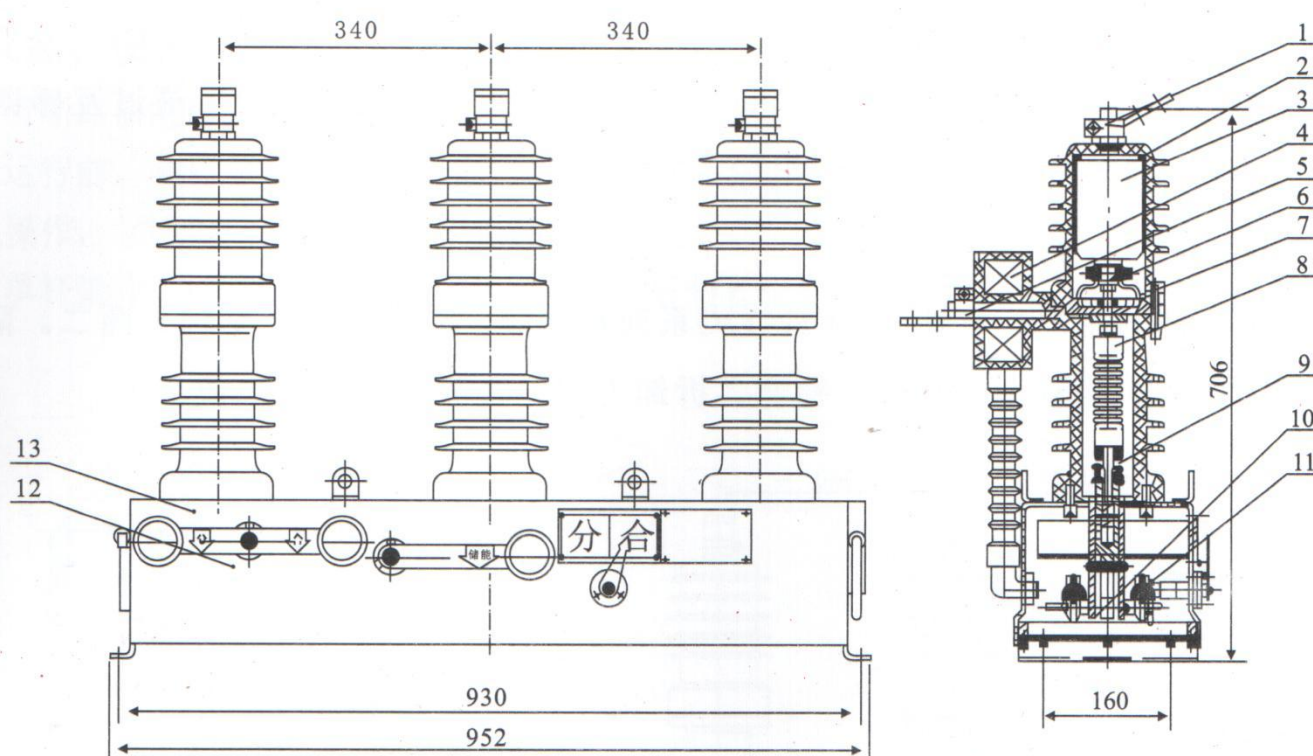
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7	Loop resistance (breaker panel between to isolation switch into the line of board)	$\mu\Omega$	$\leq 120$
8	Three-phase closing of the knife center runout	mm	$\leq 2$
9	The three-phase knife points, closing bias over the same period		$\leq 2$
10	Conductive parts of the insulation isolation		$\geq 160$
11	Fracture open distance		$\geq 200$

## Structure

HVD32(ZW32)-12 The circuit breakers structure and dimensions



### Tip:

1. Outlet
2. The insulation cylinder
3. Interrupter
4. Current transformer
5. Outlet 6. The conductive clamp
7. The soft connection
8. Insulated rod
9. Contact Yahuang
10. Drive rod
11. Opening spring

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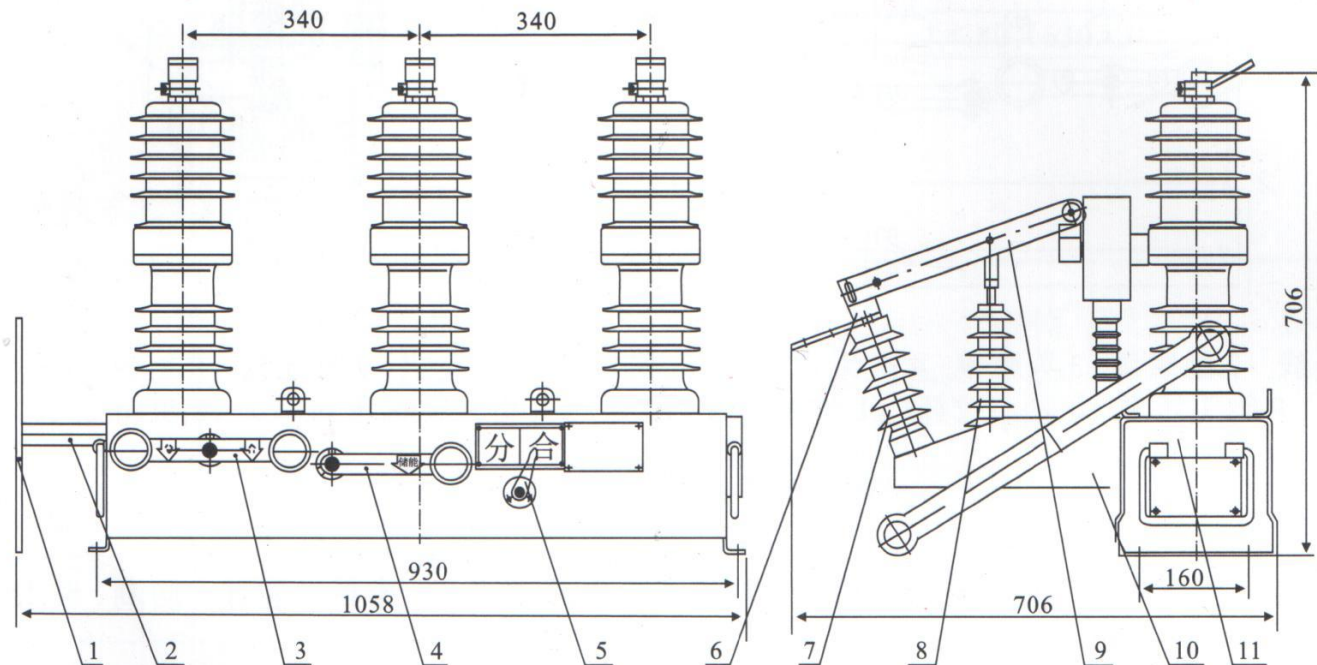
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12. The operating mechanism (chassis inside the chassis)

13.Chassis



## Tip:

1.Operating handle

2. isolated spindle

3. breaker manually division and the handle

4. Breakercharging handle

5. And close indicator 6. Outlet

7. Insulator

8. Insulated rod

9. Isolated blade

10. Spacer frame

11. Circuit implement