

ZW7-40.5 outdoor vacuum automatic circuit breakers is outdoor HV switching devices on three-phase AC 50Hz. It is used for controlling and protecting 24-40.5KV transmission and distribution systems . It can be controlled to switch-on/off remotely, also be used to control energy storage and switch -on/off manually. Annexing a current transformer inside, it provides measurement and protection

The breaker has porcelain post structure. The upper knob insulator has vacuum arc-extinguishing chamber while the nether one is post knob insulator Matching with spring or electromagnetic operating mechanisms, the breaker has high reliability of mechanical property and can be operated frequently. It has no burning and explosion hazard.

The breaker conforms to standards of GB1984-1989AC HV Breaker and IEC 56.IEC62271-100 HVAC Breaker. Its main features: excellent insulating property and strong anti soil performance. According to customer's requests, it can install current transformers inside. The measuring accuracy will be level of 0.2. And it realizes three-phase interaction protection.

Environmental conditions:

1. Ambient temperature: not higher than +40 °C, not less than -35°C
2. Altitude: not exceed 1000m.
3. Relative humidity: daily average of not more than 95%, month average of not more than 90%.
4. Earthquake intensity: not more than ten.
5. No fire, explosion hazard, serious filthy, chemical corrosion, as well as places of intense vibration.

Technical Data

1	Rated Voltage		KV	40.5	
2	Rated current		A	1250	
3	Rated short-circuit breaking current		kA	31.5	
4	Rated short-circuit switching current (peak)			80	
5	Rated short time withstand (thermal stability) current			31.5	
6	Rated short time withstand (dynamic stability) current			80	
7	Rated short-circuit duration time		s	4	
8	Rated insulating level	Power frequency withstand voltage (1 min)	Dry-type	KV	95
			Wet-type	KV	80
		Lightning impulse withstand voltage (peak)		KV	185
9	Rated operating sequence			O-0.3s-CO-180s-CO	
10	Breaking time of rated short-circuit breaking current		Times	20	
11	Breaking time (with spring operating mechanism)		ms	≤80	
12	Mechanical life		times	10000	
13	Rated operating voltage		V	AC220 DC220	
14	Clearance between contacts		mm	20+30	
15	Over stroke of contacts		mm	5±1	
16	Bounce time		ms	≤5	
17	Loop DC resistance of each phase		μΩ	120	
18	Outline dimension of breaker (L*W*H)		mm	2200*700*2500	
19	Total weight of breaker (with operating mechanism)		KG	1100	

Outline Dimension

