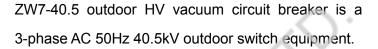


ZW7-40.5 Series

Outdoor High Voltage Vacuum Circuit Breaker (Recloser)



- ◆ Installation way: foundation installation;
- ◆ Operating mechanism: spring operating mechanism and electromagnetic operating mechanism;
- ◆ Pole material: silicone rubber, ceramic;
- ◆ Application: outdoor 33kV substation, power plant.
- ◆ Current transformer: internal installation, external installation.





*** Product Standards**

- ♦ IEC62271-100 High Voltage Switchgear and Controlgear Part 100: AC Circuit-breakers
- ♦ GB1984 High Voltage AC Circuit-breakers
- ♦ GB/T11022 Common Specifications for High-voltage Switchgear and Controlgear Standards
- ♦ JB/T 3855 High Voltage AC Vacuum Circuit-breakers
- ♦ DL/T402 Specification of High-voltage AC Circuit-breakers

*** Environmental Conditions**

- ♦ Ambient temperature: -40°C~+40°C;
- ♦ Altitude: ≤1000m;
- ◆ Maximum wind speed is 10km/h, minimum wind speed for the rated level (132/230kv) is 3.2km/h;
- ◆ Earthquake intensity: ≤8 level;
- ♦ Minimum nominal creepage distance: 31mm/kV;
- ♦ Air pollution degree: Class IV.

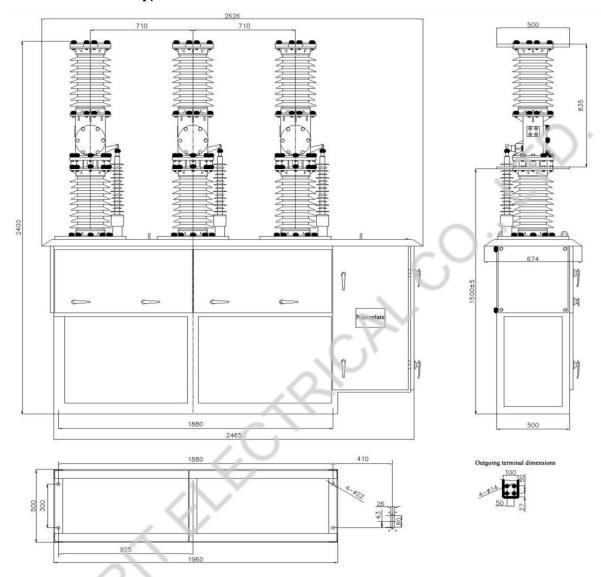
*** Main Technical Parameters**

No	Item		Unit	Value
1	Rated voltage		kV	40.5
2	Rated insulation level	1min power frequency	kV	
		Dry test (fracture, inter-phase, to earth)		95
		Wet test (to earth, external insulation)		85
		Lightning impulse withstand voltage		185
		(peak)		
3	Rated current		А	1250, 1600, 2000,
				2500
4	Rated short circuit breaking current			20, 25, 31.5

No	Item			Value
5	Rated short circuit making current (peak)			50, 63, 80
6	Rated peak withstand current			50, 63, 80
7	Rated short time withstand current			20, 25, 31.5
8	Rated operating sequence			O-0.3S-CO-1 80S-CO
9	Rated short circuit breaking current breaking number			20
10	Rated short c	ircuit duration	S	4
11	Breaking time		S	≤0.09
12	Mechanical life			10000
12	Vacuum	Newly manufactured interrupter	Do	≤1.33x10 ⁻³
13	interrupter	During 20-year storage time	Pa	<6.6x10 ⁻²
14	Circuit breaker net weight			800
15	Clearance be	tween open contacts	mm	22±2
16	Contact trave		mm	4±1
17	Average oper	ning speed	m/s	1.4~1.7
18	Average closi	ng speed	m/s	0.4~0.7
19	Contact closir	ng bounce time	ms	≤3
20	Inter-phase o	pening and closing synchronism	ms	≤2
21	Closing time		ms	50≤t≤200
22	Opening time			30≤t≤60
23	Each phase main circuit DC resistance (not include			≤100
	CT internal resistance)			
24	Dynamic and fixed contact cumulative thickness			3
	allowed to wear			
25	Rated contac	t pressure	N	2500±200

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

◆ Side-mechanism type



♦ Mid-mechanism type

