



ZN85-40.5 Series

Indoor High Voltage Vacuum Circuit Breaker

ZN85-40.5 indoor HV vacuum circuit breaker is a 3-phase AC 50Hz 40.5kV indoor switch equipment.

- ◆ Installation way: withdrawable type;
- ◆ Operating mechanism: spring operating mechanism;
- ◆ Pole type: assembled pole, embedded pole;
- ◆ Application: switchgear KYN61-40.5.
- ◆ Secondary plug: 58pins, 64pins.



※ Environmental Conditions

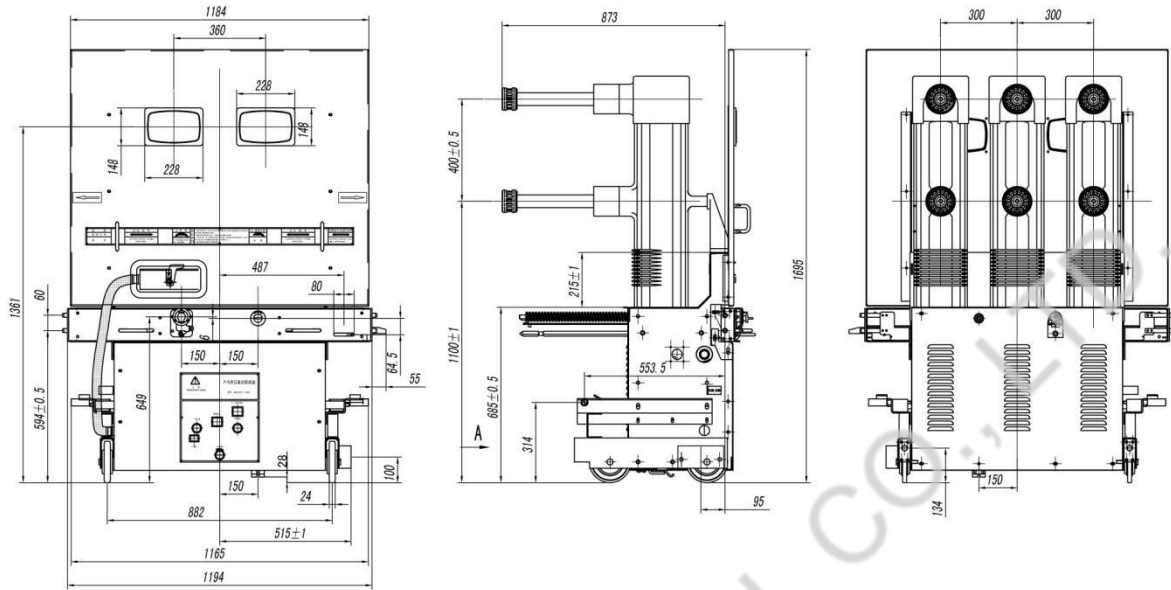
- ◆ Ambient temperature: $-15^{\circ}\text{C}\sim+40^{\circ}\text{C}$;
- ◆ Altitude: $\leq 1000\text{m}$;
- ◆ Relative humidity: daily average $\leq 95\%$, monthly average $\leq 90\%$;
- ◆ Earthquake intensity: ≤ 8 level;
- ◆ Places without fire, explosion hazard, serious filthy, chemical corrosion, as well as intense vibration.

※ Main Technical Parameters

No	Item	Unit	Value
1	Rated voltage	kV	40.5
2	Rated current	A	1250, 1600, 2000, 2500
3	Rated short circuit breaking current	kA	25, 31.5
4	Dynamic current (peak)		63, 80
5	4s thermal stability current		25, 31.5
6	Rated short circuit making current (peak)		63, 80
7	Rated short circuit current breaking number	Times	20
8	Rated operating sequence		O-0.3s-CO-180s-CO
9	1 min power frequency withstand voltage	kV	95
10	Rated lightning impulse withstand voltage		185
11	Mechanical life	Times	10000
12	Rated single capacitor bank switching current	A	630
13	Rated back-to-back capacitor bank current		400
14	Rated voltage of energy storage motor	V	AC/DC 220/110
15	Power of energy storage motor	W	≤ 230
16	Energy storage time	s	≤ 15
17	Rated voltage of closing/opening coil	V	DC 220/110
18	Rated current of closing/opening coil	A	1.05(110V) 0.96(220V)
19	Clearance between open contacts	mm	20 ± 2
20	Contact travel		7.5 ± 1.5
21	Three phase opening and closing asynchronism	ms	≤ 2
22	Contact closing bounce time		≤ 3
23	Main circuit resistance (not include contact arm)	$\mu\Omega$	≤ 40

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

◆ Draw out type assembled pole



◆ Draw out type embedded pole

