



# ZN85B(VSG)-40.5

## Series Indoor High Voltage Vacuum Circuit Breaker

ZN85B(VSG)-40.5 indoor HV vacuum circuit breaker is a 3-phase AC 50Hz 40.5kV indoor switch equipment.

- ◆ Operating mechanism: spring operating mechanism;
- ◆ Pole type: assembled pole, embedded pole;
- ◆ phase-to-phase distance: 300~440mm;



## ※ 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:  $\leq 8$  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	1 min power frequency withstand voltage phase-to-phase, phase-to-earth across open contacts		95 110
3	Rated lightning impulse withstand voltage phase-to-phase, phase-to-earth across open contacts		185 215
4	Rated frequency	Hz	50/60
5	Rated current	A	1250, 1600, 2000, 2500, 3150*
6	Rated short circuit breaking current	kA	25, 31.5
7	Rated short time withstand current		25, 31.5
8	Rated peak value withstand current		63, 80
9	Rated operating sequence		O-0.3s-CO-180s-CO
10	Secondary circuit power frequency withstand voltage (1min)	V	2000
11	Rated single/back-to-back capacitor bank breaking current	kA	630/400
12	Opening time	ms	20~50
13	Closing time		30~70
14	Mechanical life	times	20000
15	Electrical life		E2 class
16	Control circuit power supply voltage	V	AC/DC 110/220

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

