

ZN85-40.5 indoor high voltage vacuum circuit breaker, is the indoor switch gear for the 3-phase AC 50Hz, rated voltage 40.5kV electrical system. It is used for the mining industry, power plants and substations as division and load current, overload current, fault current purposes, and for frequent operation places.

The breaker operating mechanism adopts up and down layout structure, effectively reducing the depth of the circuit breaker. The mechanism design is simple, and its performance is more suitable output curve 40.5 kV vacuum breaker characteristics and requirements.

The overall layout is reasonable, beautiful, simple, compact, flexible operation, with reliable electrical performance, long life, easy maintenance, body maintenance-free features.

**Environment Condition:**

- Ambient temperature:-15℃~+40℃
- Altitude: ≤1000m
- Daily average relative humidity: ≤95%; Monthly average relative humidity: ≤90%
- Daily average saturated vapor pressure: ≤2.2KPa; Monthly average value : ≤1.8KPa
- Earthquake intensity: ≤8 degree
- No fire, explosion, severe vibration, chemical corrosion and serious pollution

**Technical Data**

1	Rated voltage	KV	40.5
2	1 min power frequency withstand voltage	KV	95
3	Lightning impulse withstand voltage	KV	185
4	Rated frequency	HZ	50
5	Rated current	A	1250,1600,2000,2500,3150
6	Rated short time withstand current	KA	20, 25, 31.5, 40
7	Rated peak withstand current	KA	63,80,100
8	Rated short duration current	S	4
9	Rated short-circuit breaking current	KA	25,31.5
10	Rated short-circuit closing current	KA	63,80
11	Rated sequence of operations		0-0.3s-CO-180S-CO
12	Nos. of Rated short-circuit breaking current	Times	20
13	Single capacitor bank breaking current	A	630,800(40KA)
14	Back to back capacitor breaking current	A	400
15	Rated operating voltage	V	-100/~110, -220/~220
16	Mechanical life	Times	10000

# Outline Dimension

