

## Indoor AC HV Vacuum Circuit Breaker TYPE VT12(ZN85)-40.5

**General :**

VT12(ZN85)-40.5 Indoor AC HV Vacuum Circuit Breaker is mainly suitable for the power system with three-phase AC 50HZ,40.5KV rated voltage—to make load current, overload current and short circuit current. It is used for the places with different load and frequent operation. And it is applied to protecting and controlling the apparatus in the industrial and mining business, power plant and substations.



**Product feature :**

- a. The advanced and effective extinction arc principle is adopted for its high breaking capability and longer service life.
- b. Reasonable arrangement of inductive circuit and operating mechanism, module design, makes its structure more compact.
- c.

Reliable interlocking can protect from varieties of malfunction. The insulation level is increased sharply due to applying to compound insulation, and it is never influenced by environment.

**Type and designation:**

**Technical parameter:**

No.	Item		Unit	Data
1.	Rated voltage		kV	40.5
2.	Rated current		A	1250   1600
3.	Rated insulation level	1min power frequency withstand voltage	kV	95
		Lightning impulse withstand voltage(peak)		185
4.	Rated frequency		Hz	50
5.	Rated short-time withstand current		kA	25, 31.5, 40
6.	Rated peak withstand current			63, 80, 100
7.	Rated short circuit lasting time		s	4
8.	Rated short circuit breaking current		kA	25, 31.5, 40

9.	Rated short circuit making current		63, 80, 100
10.	Rated operating order		C-0.3s-CO-180s-CO
11.	Breaking time	ms	<=80
12.	Rated short circuit breaking current breaking times	Time	30
13.	Rated capacitor bank breaking current	A	630
14.	Rated operating voltage	V	-110   -220/to 220
15.	Mechanical endurance	time	10000
16.	Contact travel	mm	20 (+or-) 2
17.	Over travel	mm	6 (+or-) 1
18.	Average closing speed	m/s	0.6 to 0.9
19.	Average opening speed (moving 10mm)	m/s	1.5 to 1.9
20.	Closing time	ms	40 to 80
21.	Opening time	ms	35 to 60
22.	Contact closing bouncing time	ms	<=2
23.	Three phase closing asynchronization	ms	<=2
24.	Three phase opening asynchronization	ms	<=2
25.	Closing spring stored energy time (electric machine)	s	<=12
26.	Resistance of each phase circuit (excluding contact arm )	$\mu\Omega$	<=60