

ZN28(A)-12 series vacuum circuit breaker is a indoor high voltage switchgear with rated voltage 12KV, 3 phases AC 50 HZ . It conforms to the standard GB1984-89, JB3855 and DL/T403.The main structure of this products has two types: one is switch body and operation organization installed integrated ,called ZN28-12, and another is switch body and operation organization installed separately, called ZN28A-12.

This product is applied for various fixed switchgear cabinet, such as GG-1A(Z) , XGN2-12(Z) etc. It can match to use CD17,CD10A Model DC magnetic operating organization or CT17 and CT19 model spring energy store operating mechanism.

#### Environment Condition:

- Ambient temperature:-25℃~+40℃
- Altitude: ≤1000m
- Daily average relative humidity: ≤95%; Monthly average relative humidity: ≤90%
- Earthquake intensity: ≤8 degree
- No fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Technical Data

Item		Unit	Parameter			
			20KA	25KA	31.5KA	40KA
Rated voltage		KV	12			
Rated current		A	630 1000 1250	1250 1600	1250 1600 2000 2500	1600 2500 3150
Rated short circuit breaking current		KA	20	25	31.5	40
Rate short circuit breaking current(peak value)		KA	50	63	80	100
Rate peak withstand current		KA	50	63	80	100
4S rated short time withstand current		KV	20	25	31.5	40
Rated insulating level		KV	42 (Fracture 48)			
			75 (Fracture 85)			
Rated sequence of operations			O-0.3s-CO-180s-CO			
Mechanical life		Times	1000			
Breaking times for rated short circuit breaking current		Times	30			20
Operating device rates closing current(DC), electromagnetic operation device		A	71			128
Operating device rates closing current(DC)		V	110/220		220	
Operating device rates closing current(DC)		A	3.0/1.5			
Clearance between open contacts		mm	11±1			
Over travel (contact spring reduction length)		mm	4±1			
Three-phase, switch-on differ synchronicity		ms	≤2			
Contact switch-on bounce time		ms	≤2			
Average opening speed(6mm height)		m/s	1.2±0.3			
Average closing speed		m/s	0.6±0.2			
Opening time		S	Under max. Operation voltage			
			Under min. Operation voltage			
			≤0.06			
			≤0.08			

Closing time	S	$\leq 0.1$	
Each phase main loop resistance	$\mu\Omega$	$\leq 50$	$\leq 35$
Moving and fixed contact allowance wearing cumulating thickness	mm	3	
Oil damper cushioning stroke	mm	10	

### Outline Dimension

