ZN12-12/40.5 indoor high voltage vacuum circuit breaker is a type of 12kv,50HZ three phase alternating switch. The mechanism and vacuum interrupter are designed to be a whole. Specialized 3AF type spring operating structure from Siemens can be operated by manual or carry out direct current energy saving operation.

It's can be designed as 210mm,230mm,250mm,275mm and other kinds of phase space, which matches better with different kinds of switchgear, such as handcart type JYN2-12,JYN6-12,KYN2-12

Environment Condition:

- Ambient temperature:-25℃~+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	12, 40.5		
2	Rated lighting impulse withstand voltage	KV	Phase to phase or to Ground 75, fracture 80		
3	Rated short-time power frequency withstand voltage	KV	Phase to phase or to Ground 42, fracture 48		
4	Rated short-circuit breaking current	KA	20, 25	31.5	40
5	Rated current	A	630/1250/1600	1250/1600/2000/2500	1600/2000/3150
6	Rated thermo stability current(valid)	KA	25	31.5	40
7	Rated dynamic stability current(peak)	KA	63	80	100
8	Rated short-circuit making current(peak)	KA	63	80	100
9	Rated operations of short-circuit breaking current interruption	Times	50(40kA is 30)		
10	Rated working current of over current and tripping coil	A	5		
11	Rated operating sequence		0-0.3s-CO-180s -CO/0-180s-CO-180s-CO(40KA)		
12	Rated current of auxiliary switch	A	AC10,DC5		
13	Rated voltage of energy saving release	V	AC.DC220 AC.DC110		
14	Closing time	Times	≤75		
15	Opening time		≤60(40)		
16	Power of energy saving motor	W	275		
17	Energy saving time	S	≤15		
18	Mechanical life	Times	20000		

Mechanical characteristics adjustment data

1	Rated contact stroke	mm	11 ±1		
2	Contact over travel	mm	8±2		
3	Average opening speed	m/s	1.0~1.8		
4	Average closing speed	m/s	0.6~1.1	0.8~1.3	0.8~1.3
5	Contact bouncing duration at closing operation	ms	≤2		
6	Core distance between phases	mm	210,230,250,275,280		
7	Three-pole simultaneity	ms	≤2		
8	Conductive circuit resistance of each phases	μΩ	<40		

Outline Dimension