

# Timetric



## High Voltage Breaker

You can rest assured to buy Timetric High Voltage Breaker from our factory. And have gained the trust of customers in many countries at home and abroad due to their obvious advantages in terms of product quality and delivery time.

### Product Description

#### Timetric High Voltage Breaker Principle of Operation

The working principle of High Voltage Breaker is: When the moving and static contacts are opened under the action of the operating mechanism, there is an arc between the contacts. The surface of the contacts volatilizes steam at high temperature. Due to the special shape of the contacts, a magnetic field is generated when the current passes through. The arc is extinguished at natural zero and the strength of the medium between the contacts quickly recovers.

#### Timetric High Voltage Breaker Parameter (Specification)

Rated voltage		12kV			
Rated frequency		50HZ/60HZ			
Rated lightning impulse test voltage/breaking		75/85kV(peak value)			
Rated 1min power frequency withstand voltage/breaking		42/48kV(valid value)			
Model	Rated current	Rated breaking current	Rated short-circuit making current (peak value)kA	Rated short-circuit duration	Mechanical life
ZN85-40.5/ 31.5-300	630,1250	20/25	50/63	4	20000
	1250,1600 2000,2500	31.5	80	4	20000
	1250,1600 2000,2500 3150	40	100	4	20000
	4000	40/50	100/125	4	20000

#### Timetric High Voltage Breaker General description:



ZN85-40.5/31.5-300 is a HV indoor vacuum circuit breaker working as a protection and control unit of power grid equipment and industrial electric equipment in power system of rated voltage from 40.5KV. It meets the requirements of GB/T1984-2014 (AC HV circuit breaker) and JB355-1996 (3.6KV-40.5KV indoor AC HV vacuum circuit breaker). It can be used in switchgears of KYN61.

### **Timetric High Voltage Breaker characteristics**

1. Because the contact wear is small in the breaking current, so the electrical life of the contact is long, the full capacity of breaking 30-50 times, rated current breaking more than 5000 times, small noise suitable for frequent operation.
2. Small size, light weight.
3. Suitable for breaking capacitance load current.

Because of its many advantages, it is widely used in substation, the current models are mainly: ZN12-10, ZN28A-10, ZN65A-12, ZN12A-12, VS1, ZN30 and so on.

