

Timetric



High Voltage Air Circuit Breaker

As the professional manufacture, we would like to provide you Timetric High Voltage Air Circuit Breaker. And we will offer you the best after-sale service and timely delivery. We insist on standardized, systematic and standardized production, implement a full range of quality management strategies to ensure product quality, full process quality inspection and tracking, and every small link is not spared.

Product Description

Timetric High Voltage Air Circuit Breaker General description:

As the professional manufacture, we would like to provide you Timetric High Voltage Air Circuit Breaker. ZN63A(VS1)-12 is a High Voltage Air Circuit Breaker working as a protection and control unit of power grid equipment and industrial electric equipment in power system of rated voltage from 7.2KV to 12KV. It meets the requirements of GB/T1984-2014 (AC HV High Voltage Air Circuit Breaker) and JB355-1996 (3.6KV-40.5KV indoor AC HV vacuum circuit breaker). It can be used in switchgears of KYN28(GZS1), XGN and GG-1A.





Timetric High Voltage Air Circuit 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
ZN63 (VS1)-12	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

Serial number	Name	Unit	Data			
1	Overtravel	mm	3.5±0.5			
2	Three-phase opening and closing in different periods	ms	≤2			
3	Bounce time of closing contact	ms	≤2			
4	Contact pressure of closing contact	N	20kA	25kA	31.5kA	40kA
			2000±200	2400±200	3100±200	4750±200
5	Average opening speed	m/s	1.2±0.2			
6	Average closing speed	m/s	0.65±0.2			

Timetric High Voltage Air Circuit Breaker Working principle:

The vacuum circuit breaker is equipped with a medium sealed longitudinal magnetic field vacuum arc extinguishing chamber. When the dynamic and static contacts are charged under the action of the operating mechanism, the gap between the contacts will burn the vacuum arc and extinguish the arc when the current is zero. Due to the special structure of the contacts, the gap between the contacts will generate the appropriate longitudinal magnetic field during the arc burning time, which can make the arc evenly distributed on the surface of the contacts and maintain the low arc voltage. The vacuum fire arc chamber has a higher strength recovery rate of backarc medium, a smaller arc energy and a smaller corrosion rate, so as to improve the ability of the circuit breaker to break short circuit current and electrical life.

