

NEPEAN
Power

Indoor HV Vacuum Circuit Breaker



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NEPEAN ELECTRONICS**

NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

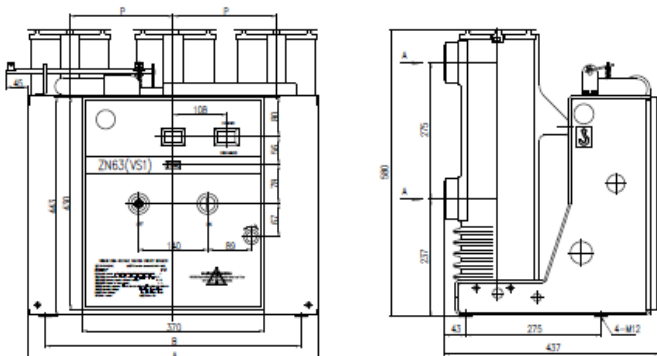
ZN63A-12 (VS1) type indoor high voltage vacuum circuit breaker (hereinafter referred to as circuit breaker) is used for indoor high voltage switch equipment of power system, as a protection and control unit of network equipment, industrial and mining enterprises power equipment, suitable for the place of frequent operation at rated working current or many times of breaking short-circuit current place. The circuit breaker uses the integrated design of actuator and the circuit breaker body, not only can be used as a fixed install unit, also can be equipped with special chassis, hand car unit.

Features

- The environment temperature: upper limit+40, lower limit -15 (allow storage at -30)
- Altitude: no more than 2000m
- Relative humidity: daily average value is not greater than 95%, monthly average is not greater than 90%
- Saturated steam pressure: daily no larger than 2.2×10^{-3} Mpa, monthly average is not greater than 1.8×10^{-3} Mpa
- Earthquake intensity does not exceed 8 degrees
- No fire, explosion, pollution, chemical corrosion and severe vibration place.

Ordering Information

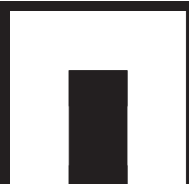
Part Number	Description
ZN63-12/T630-25	ZN63-12/T630-25 Fixed 650mm pole, distance 150, 48VDC shunt trip, 110VAC motor charge, 110VAC undervolt (non-capacitor type), 110VAC close coil
ZN63-12/T1250-25	ZN63-12/T1250-25 Fixed 800mm pole, distance 210, 48VDC shunt trip, 110VAC motor charge, 110VAC undervolt (non-capacitor type), 110VAC close coil
ZN63--ST48VDC	48VDC shunt trip
ZN63-CC110VAC	110VAC close coil
ZN63-UV110VAC	110VAC undervolt non-capacitor type
ZN63-MC110VAC	110VAC motor charge



HV Vacuum Circuit Breaker

Specifications

Product	Unit	Parameter				
Parameters of voltage, current, life						
Rated voltage	kV	12				
Rated short time power frequency withstand voltage (1min)	kV	42				
Rated lightning impulse withstand voltage (peak)	kV	75				
Rated frequency	Hz	50				
Rated current	A	630 1250	1250 1600 2000 2500	1250 1600 2000 2500 3150 4000	4000 5000	
Rated short-circuit breaking current	kA	20	25	31.5	40	50
Rated short-time withstand current (RMS)	kA	20	25	31.5	40	50
Rated peak withstand current	kA	50	63	80	100	125
Rated short-circuit closing current	kA	50	63	80	100	125
Rated single / back-to-back capacitor bank breaking current	A	630/400				
Rated short-circuit current duration	S	4				
Rated short-circuit current breaking times	times	50			30	
Rated operating sequence		O-t-CO-180s-CO rated short-circuit breaking current less than 31.5kA, t=0.3s rated short-circuit breaking current 40kA, t=180s				
The main galvanic circle resistance	$\mu\Omega$	≤ 50 (less than 1250A); ≤ 40 (less than 1600~2000A); ≤ 30 (more than 2500A);				
Rated operation voltage		$\cong 220/110$				
Mechanical life	times	≥ 10000				
Mechanical property parameters						
Open clearance between contacts	mm	11 \pm 1				
Overtravel	mm	3.0 \pm 0.5				
Contact closing bounce time	ms	2			3	
Three-phase, switching in different period	ms	≤ 2				
Average opening speed	m/s	0.9~1.3				
Average closing speed	m/s	0.5~0.8				
Opening time (rated voltage)	ms	≤ 50				
Closing time (rated voltage)	ms	≤ 70				



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