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ZW43-12 Outdoor AC Vacuum Circuit Breaker

Summary

ZW43-12 model outdoor AC vacuum circuit breaker is used to make and break load current, overload current and short-circuit current in12kV, 50/60Hz power system. It is applicable for substations, industry and mining, urban and rural electricity power networks, especially applicable in occasions with frequent operation and automatic power distribution n etwork. It accords with the standard of IEC62271-100 & GB1984: AC high voltage circuit breaker, IEC60694 & GB/T11022: HV general technical requirement of switch and control apparatus.

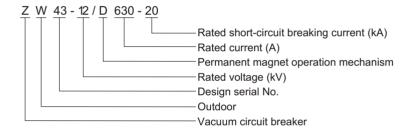
Ambient condition

- 1. Altitude: ≤2000mm;
- 2. Ambient temperature: -40°C~+45°C;
- 3. Earthquake intensity: ≤8 degree;
- 4. Ice thickness: 10mm;
- 5. Wind speed: ≤34m/s (air pressure≤700Pa).



Permanent Magnetic(epoxy resin)

Model



Product feature

- 1. Mini vacuum arc extinguish
 - High reliability; small volume; long life time; fixed inside the epoxide resin.
- 2. Epoxide resin sealing
 - Anti-ozone, anti-ultraviolet; It is firm, light and convenience for transport.
- 3. Permanent magnet mechanism
 - Small volume, reliable performance, non-maintenance.
- 4. Manual breaking
 - Improve the reliability, It can operate under the urgent condition.
- 5. Direction tester
 - It is mounted on the linkage axial to check the opening and closing direction.
- 6. Switch case

Aluminium-alloy material, anti-rust steel and armor plate.

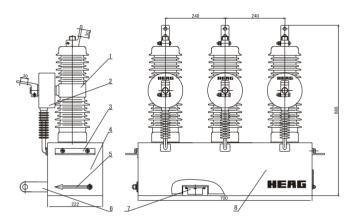
Mechanical specification

No.	Item	Unit	Data
1	Rated voltage	kV	12
2	Rated frequency	Hz	50/60
3	Rated current	Α	630
4	Rated short-circuit breaking current	kA	20
5	Rated peak withstand current(peak)	kA	50

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No.	Item	Unit	Data
6	4s rated short-time withstand current	kA	20
7	Rated short-circuit making current (peak)	kA	50
8	Mechanical duration	Times	30000
9	Breaking time of rated short-circuit breaking current	Times	30
10	1min P.F withstand voltage-dry(phase to phase, to earth; across open contacts)	kV	42/49
11	1min P.F withstand voltage-wet	kV	34
12	Lightning impulse withstand voltage peak(phase to phase, to earth; across open contacts)	kV	75/85
13	Net weight	kg	70
14	Abrasions thickness of contacts	mm	3

Product structure



- 1. Solidly sealed poles
- 2. Current transformer
- 3. Lift mounting board
- 4. Enclosure 5. On/off indicator 6. Handle
- 7. Aerial socket
- 8. Permanent magnet mechanism(inside enclosure)



Silicon rubber(stainless-steel)



Combined apparatus with disconnect switch

Basic equipments:

- 1. Current transformer protection poles 2 pieces.
- 2. Permanent magnet operation power supply.

Optional equipments:

- 1. Current transformer, metering and protection poles 2 pieces for each,75/5.
- 2. Outer voltage transformer 2 pieces(for control power supply and metering).
- 3. Reclosing controller and series FTU and RTU.
- 4. Disconnect blade.