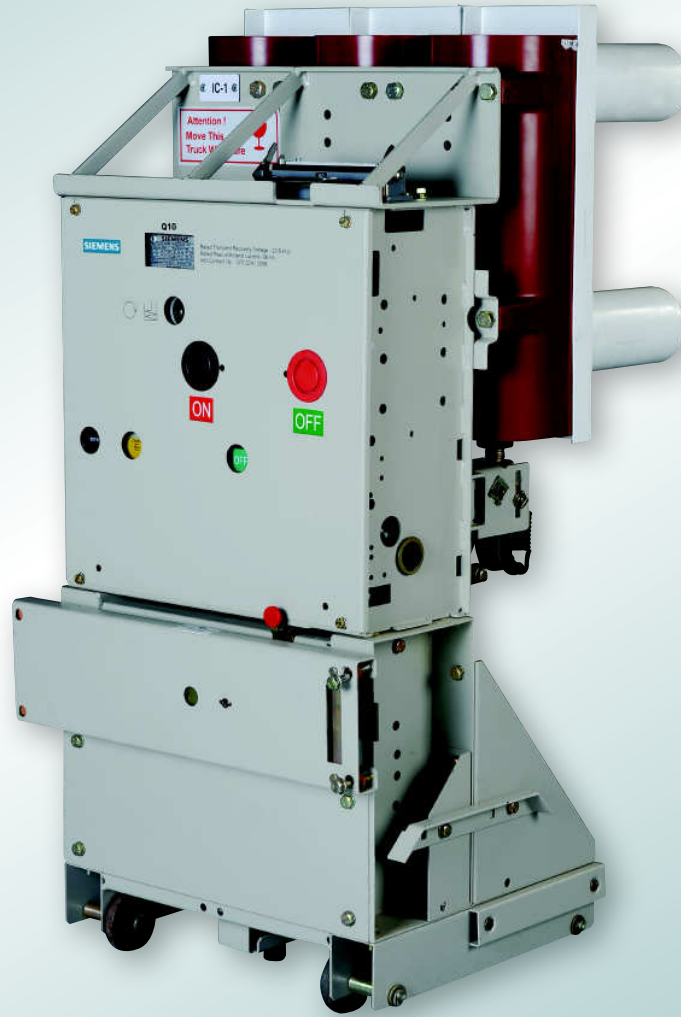


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3AH0 Vacuum Circuit Breaker

Answers for infrastructure.

Advantages of Vacuum over other interrupting media:

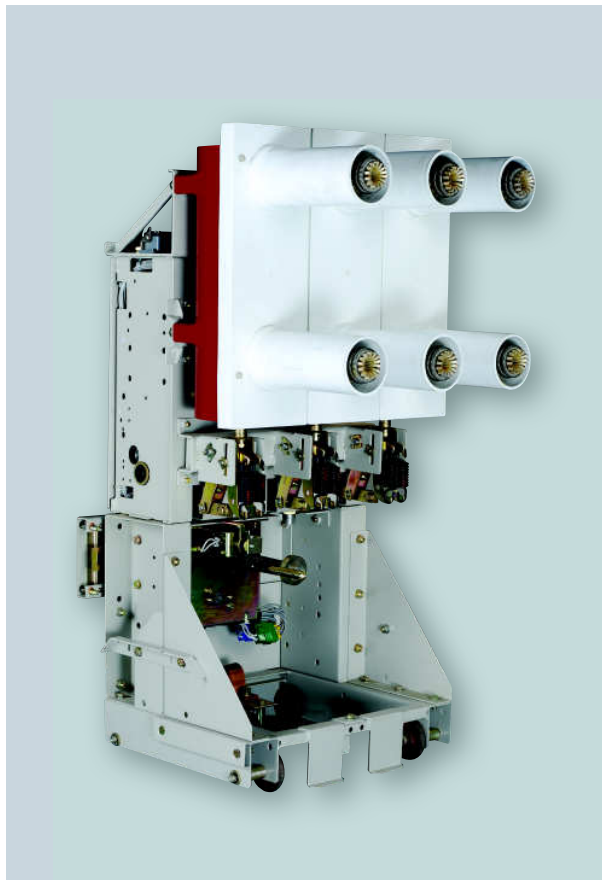
- Highest dielectric strength over a small contact gap
- Constant low contact resistance
- Fastest recovery strength
- Lowest arc energy dissipation
- Lowest drive energy requirements
- Minimum contact erosion
- No fire hazards or explosion risks
- Least number of moving parts and hence highest reliability

Construction

The 3AH0 compact and reliable vacuum circuit breakers consist of three poles incorporating the vacuum interrupters housed in insulated shell. These poles are then covered with insulated pole cover from behind to make the design completely enclosed. The moving contacts of the vacuum interrupter are connected to the drive mechanism through insulated connecting rods. Operating mechanism is of stored energy type and suitable for auto reclosing duty. The operation can be manual/electrical as desired.

Salient features of 3AH0 Vacuum Circuit Breaker

- Conforms to IEC 62271-100 and is fully type tested
- Simple and compact design



- Interrupters housed inside an enclosed insulated pole
- Totally restrike free
- Suitable for rapid auto reclosing
- Highly reliable operation
- Long maintenance free life
- High switching capability
- Fully established for all applications
- Matching drive and interrupter characteristics
- Trolley mounted for the ease of handling

Customer Benefits

Maintenance free

3AH0 vacuum circuit breakers are truly maintenance free with new generation interrupters from Siemens. The heart of the drive mechanism i.e. the gear box is also sealed and lubricated for life. The drive mechanism is free of chain snapping problem of conventional VCBs

Environmental compatibility

3AH0 vacuum circuit breakers are environment friendly with respect to material selection and manufacturing methods and have no effect on the environment during and after the switching operations. It is easy to dispose off at the end of its service life.

Technical Data

3AH0 Vacuum Circuit Breaker	
Rated Voltage	upto 12kV
One minute power frequency withstand voltage (rms)	28kV
1.2/50 micro second lightening impulse withstand voltage	75kVp
Rated current	upto 1600A
Short Time Withstand current (3 sec)	26.3kA
Short Circuit Breaking current	26.3kA
Rated making capacity	66kA
Rated Operating sequence	O-0.3sec-CO-3min-CO
Opening Time	<65ms
Closing Time	<75ms
Single capacitor bank breaking current	400A
Cable charging breaking current	25A
Guaranteed number of operations for vacuum interruptor at rated current	10,000
Guaranteed number of operations for drive mechanism	2,000*
Is CB restrike free	Yes
Type of operating mechanism	Motor Spring Reserve Drive (M.S.R.D)

* 10,000 on request

Switching application

3AH0 VCB is well suitable for medium voltage power distribution applications like transformer feeder, line feeder in small industries, infrastructure projects and power utilities.

