

VXC High

Indoor Vacuum Circuit Breaker for high ratings
up to 75,000 Operating Cycles



When increasing the capacity of your production lines for industrial applications with high ratings such as metallurgy, you need high performance equipment to ensure service continuity.

Field-tested and time-proven high duty indoor vacuum circuit breakers from Schneider Electric ensure stability, reliability and extra-long service life even in extreme conditions.



Extremely robust circuit breakers for intense industrial applications at very high ratings

Based on our proven circuit breaker construction developed in the 1980s, the VXC indoor vacuum circuit breaker family is ideally suited for use under extreme or difficult conditions such as in steel plants.

The robust construction and the “ECO exchange program” of this particular switchgear offers an extra high number of operating-cycles (up to 75,000 ON/OFF operations) as well as flexible switchboard integration and high switching performances for inductive and capacitive currents.

VXC High completes the range

VXC High completes the product family with ratings up to 38 kV, 40 kA, 4,000 A. Specially developed for the requirements of industrial furnace circuit breaker applications, it also covers the needs for extreme high energy distribution in different production and distribution processes. It offers:

- High switching performance for inductive and capacitive currents
- High number of mechanical operations
- Easy access to all components
- Easy handling for operation and maintenance.

For more installation options, VXC High installation can be fixed-mounted or on a withdrawable truck.

Schneider Electric's VXC High circuit breaker meets the requirements of all appropriate IEC standards. It is the optimal choice to support your efficiency programs.



CUSTOMER BENEFITS

- Extremely robust and simple construction
- Extra high mechanical and electrical switching capacity
- Designed for high operating cycles
- User-friendly
- Minimum maintenance

Robust breaker-pole construction

The VXC High circuit breaker is designed as an isolator breaker-pole construction. The poles are mounted on a common base frame by means of two cast resin insulators. The construction allows compact design with a minimum of solid insulation material.

By providing strong supports, the pole section holds the vacuum chamber solidly, ensuring that it is completely free from any effects of external forces.

The axial forces occurring during the making and breaking function act only on the contact system. This keeps the vacuum chamber unstressed. The robust cooler design assures the save operation at very high nominal currents. The simple and flexible circuit breaker construction allows solutions to be created for special customer requirements.

Mechanical drive unit

The spring actuated drive and other ancillary mechanics are protected in the drive cabinet, which includes:

- Drive mechanism
- Electrical motor drive
- Auxiliary switches
- Release coils
- Operation counter
- Mechanical operation and indication mechanism.

OPTIONS AND ACCESSORIES

- Low voltage connection 64-pole
- Additional trip coil
- Indirect overcurrent trip
- Undervoltage trip
- Magnetic interlock
- Initiator switch
- Key lock for push button ON and OFF
- Anti-pumping relay
- Transport trolley
- Manual operating crank for spring charged mechanism

Dimensions and weight

Rated voltage	kV	36/38
Rated current	A	4000
Pole center distance "A"	mm	400
Width "W"	mm	1100
Depth "D"	mm	1140
Height "H"	mm	1280
Weight approx.	kg	450

PM100915



Pole sections with vacuum interrupter chambers

Technical characteristics

Rated voltage	kV	36	38	38*
Rated lightning impulse withstand voltage (BIL)	kV	170	150	200
Rated power frequency withstand voltage	kV	70	70	95
Rated current (up to)	A	4000	4000	4000
Rated short-time current (3s) (up to)	kA	40	40	40
Rated short-circuit making current (up to)	kA	100	100	100
Rated short-circuit breaking current (up to)	kA	40	40	40
Rated frequency	Hz	50/60	50/60	50/60

*on request **Special maintenance service on request

'ECO exchange program': Electrical and mechanical operating-cycles **	75,000
Number of mechanical operating-cycles of drive mechanism	10,000 / 25,000
Number of electrical switching-cycles with rated current	10,000 / 25,000

* on request.

** Special maintenance service on request.

