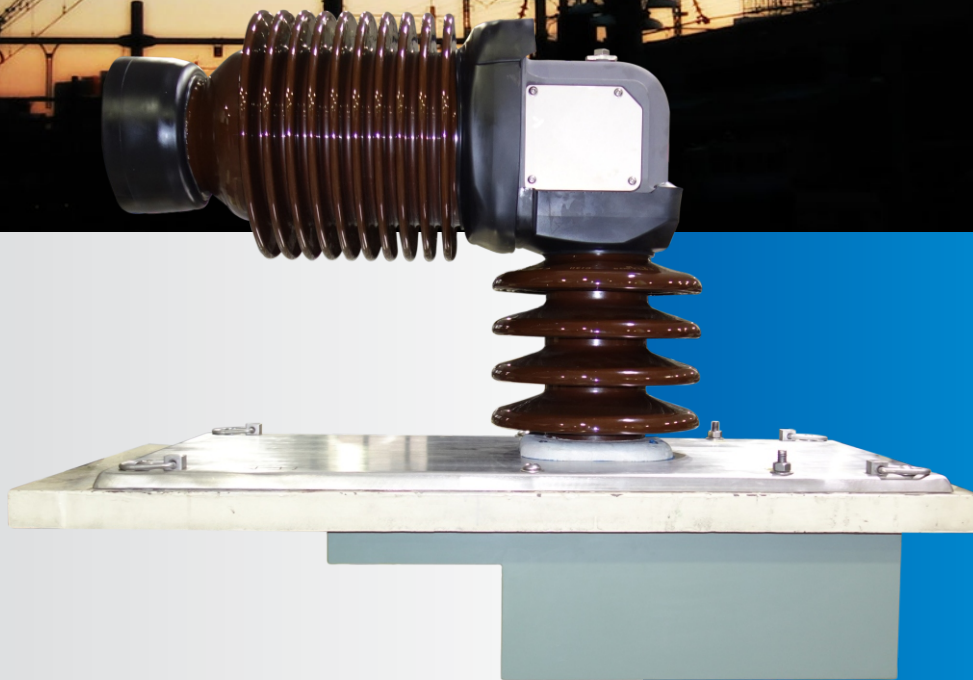




AAL®

Autometers Alliance Ltd

AC Vacuum Circuit Breaker for Traction Vehicles

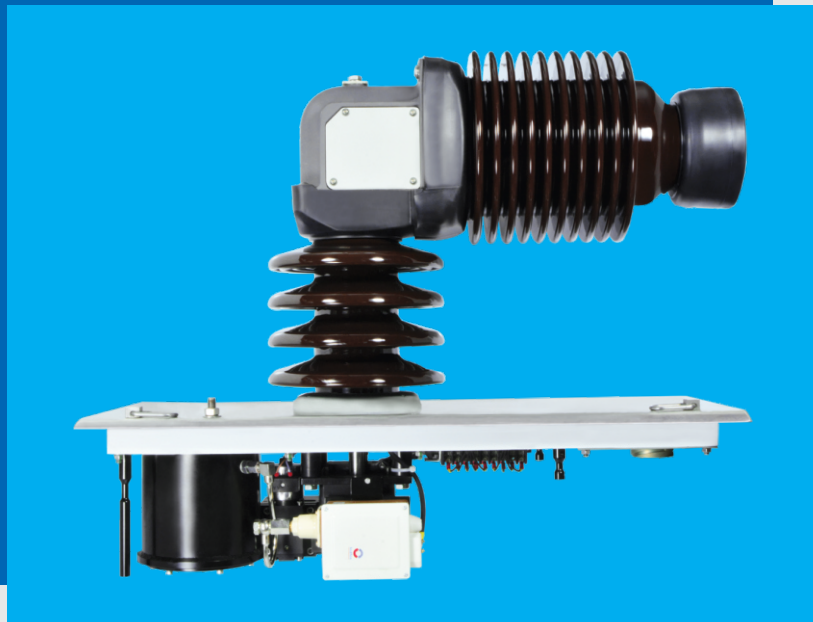


Salient features

- Single pole AC circuit breaker
- Equipped with vacuum interrupter
- Pneumatic closing and holding with opening through spring induced force
- Earthing switch can be engaged directly on the breaker
- Constructed for roof mounting
- Requires less space for installation
- Requires minimum maintenance
- Provides protection against fault currents
- Isolates the traction vehicle from the overhead catenary wire

Autometers Alliance Ltd offers technologically sophisticated and advanced Vacuum Circuit Breaker (VCBA Type) built in accordance with IEC 60077.





Applications

The VCBA type circuit breaker is used as a line circuit breaker:

- To close and open the power circuit of the vehicle from the overhead catenary
- To interrupt the power circuit current under overload, short circuit or any other defined conditions

Technical Specifications

Maximum rated voltage	30 kV
Nominal line supply voltage	25 kV
Rated power frequency withstand voltage	75 kV rms
Rated impulse withstand voltage	175 kV rms
Conventional thermal current in free air	1000 Arms
Rated operational frequency	50 Hz
Short circuit rupturing capacity	16 kArms (440 MVA)
Rated short circuit making current	40 kA peak
Short time current capacity	16 kArms (3 sec)
Opening time	≤60 ms
Closing time	< 100 ms
Control voltage	110 V DC
Auxiliary contacts (Type & No.)	8 Nos. (Fish Bone Type) configurable contacts for external circuit & 1 NO for internal use
Input air supply pressure	5 to 10 kg/cm ²
Approx. weight	150 kgs



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