



8BK88PLUS

Compact Metal-clad switchgear upto 12 kV

Power Transmission and Distribution

SIEMENS

8BK88PLUS Air insulated Metal-clad Switchgear with Vacuum Circuit Breaker on withdrawable truck

Construction :

- Single busbar air insulated metal-clad switchgear.
- Circuit breaker mounted on withdrawable truck.
- Simple and rugged shutter mechanism.
- Encapsulated feeder connections.

Standards :

- IS 3427 and IS 12729.
- IEC 60298 and IEC 60694.

Personnel safety :

- All switching operations performed with breaker compartment door closed.
- Earthed metallic partitions and shutters prevent contact with live parts.
- Individual high voltage compartment tested for Internal arc fault.

Tolerance to environment :

- Full metallic enclosure ensures high resistance to ingress and interference under all operating conditions.

Salient features :

- No separate maintenance trolley required.
- Safe and easy truck movement behind closed cubicle door.
- Separately padlockable shutter for bus and cable side fixed contacts.
- Automatic dropping ramp for facilitating truck removal.

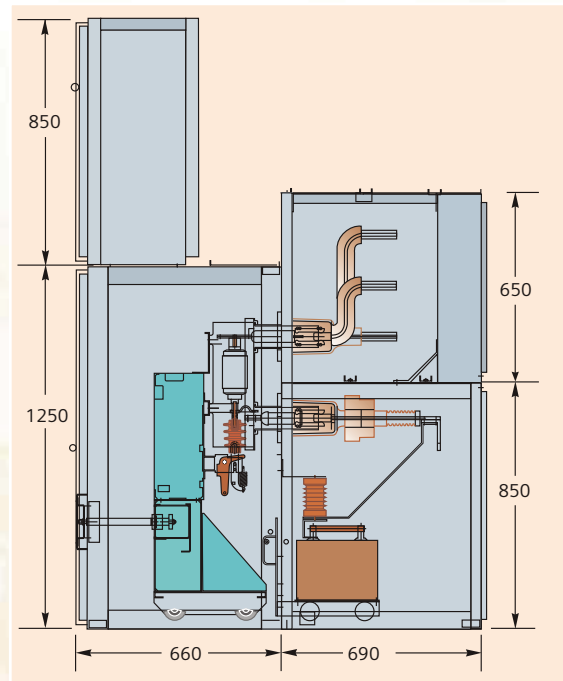
Optional :

- Wound primary/Torroidal CTs.
- Withdrawble/fixed type PTs in cable chamber.

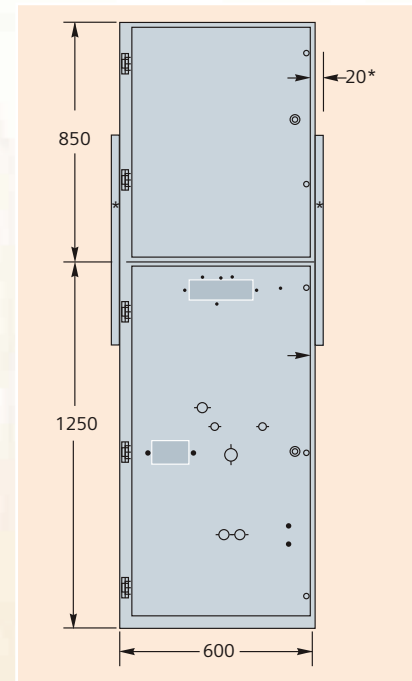
- Fully type tested including internal arc fault test.
- Belongs to 8BK8 series with all safety features.



Sectional side view



Front view



*20 mm only for end panel including end cover. (Dimensions not to scale).

Technical Data

Rated voltage (frequency 50Hz)	12 kV
Rated current of feeders	1250 A
Rated current of the busbar	2000A
Rated power frequency withstand voltage (rms) 60 sec.	28 kV
Rated lightning impulse withstand voltage (peak) 1.2/50 microsec.	75 kV
Rated short circuit Breaking current (rms)	26.3 kA
Rated short time current (rms) withstand (3 sec.)	26.3 kA
Rated short Circuit Making current (peak)	66 kA
Dimensions (Standard)	
Width (mm)	600
Height (mm)	2100*
Depth (mm)	1350

Maximum values indicated.

*LV chamber / panel height variable as per number of equipments to be mounted.



3AH0 Vacuum Circuit Breaker

The right choice for varied tasks

Construction :

- Light weight and compact vacuum circuit breaker consisting of three encapsulated vacuum interrupter poles and a drive mechanism housing which forms a sturdy base for poles.
- Operating mechanism is of stored energy type and suitable for auto reclosing duty. It can be manual/ electrical as desired.
- Fully integrated contact arms with tulip type contacts.

Standards :

- IS 13118.
- IEC 62271-100.

Salient features :

- Conforms to IS/IEC standards and is fully type tested.
- Simple and compact design.
- Totally restrike free.
- Suitable for rapid autoreclosing duty.
- Highly reliable operation.
- Suitable for all environments.
- High switching capability.
- Matching drive and interrupter characteristics.
- All type tests carried out with VCB mounted inside the panel.

Advantages of vacuum over other interrupting media :

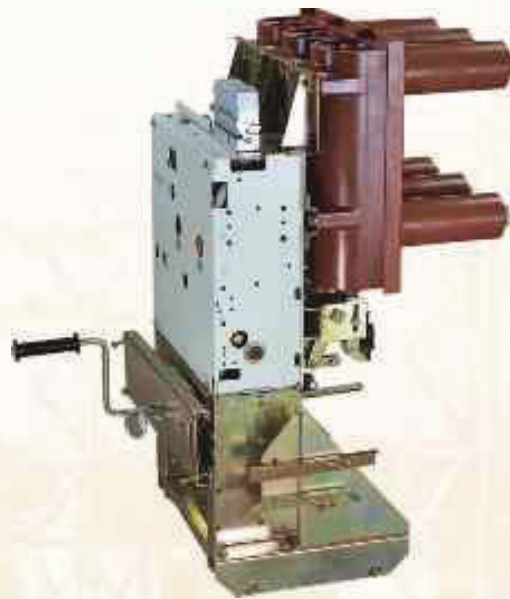
- Highest dielectric strength over a small contact gap.
- Constant low contact resistance.
- Fastest recovery strength.
- Lowest arc energy dissipation.
- Lowest drive energy requirements.
- Minimum contact erosion.
- No fire hazards or explosion risk.
- VCB has least number of moving parts and hence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

Freedom from maintenance :

- Maintenance free with new generation imported vacuum interrupters.
- The gear box is sealed and lubricated for life.
- Free from chain snapping problem of conventional operating drive mechanism.

Environmental compatibility :

- The vacuum circuit breaker has no effect on the environment during and after the switching operations.



Technical Data

Rated voltage (frequency 50Hz)	12 kV
Rated current	upto 1250 A
Rated power frequency withstand voltage (rms) 60 sec.	28 kV
Rated lightning impulse withstand voltage (peak) 1.2/50 microsec.	75 kV
Rated short circuit Breaking current(rms)	26.3 kA
Rated short time current (rms)withstand (3 sec.)	26.3 kA
Rated short Circuit Making current (peak)	66 kA