



# 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.

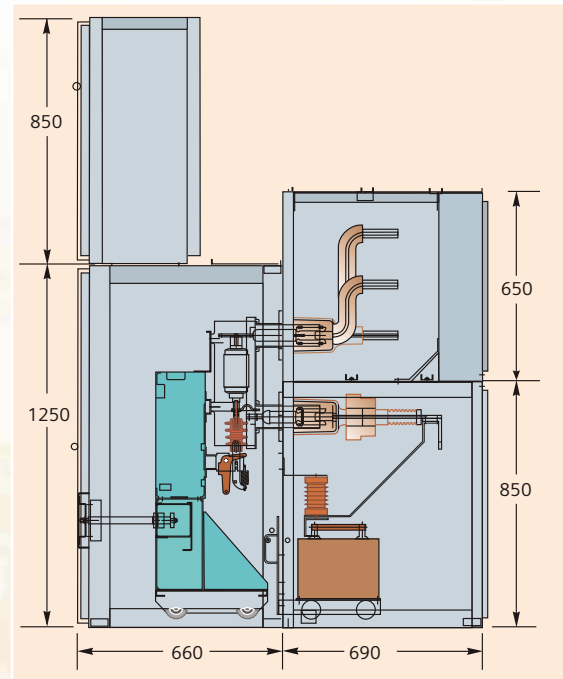
## Optional :

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

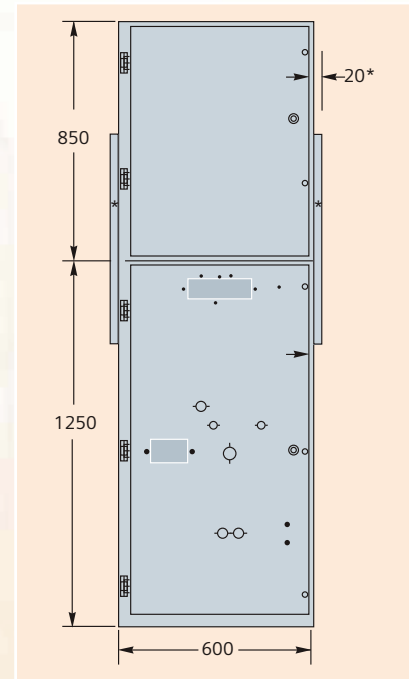
- Fully type tested including internal arc fault test.
- Belongs to 8BK8 series with all safety features.



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   |
| <b>Dimensions (Standard)</b>                                      |         |
| 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 :

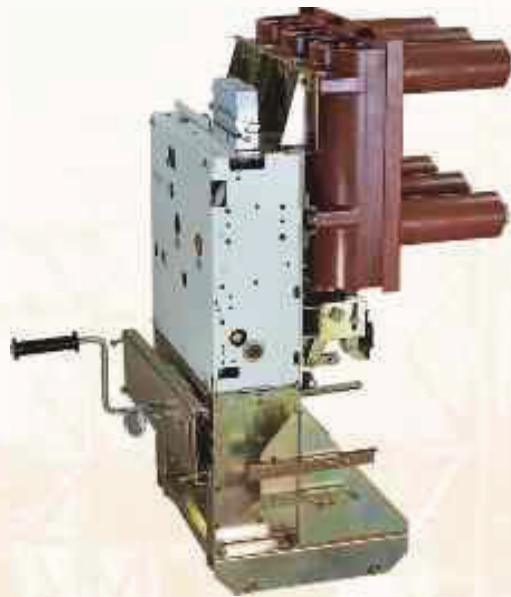
- Highest dielectric strength over a small contact gap.
- Constant low contact resistance.
- Fastest recovery strength.
- Lowest arc energy dissipation.
- Lowest drive energy requirements.
- Minimum contact erosion.
- No fire hazards or explosion risk.
- VCB has least number of moving parts and hence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