



EV-1

Aluminum Vertical Break Switch

Reliable Operations for EHV Applications

The EV-1 vertical break switch is a heavy duty disconnect switch specifically designed to carry the mechanical and electrical stresses of higher voltage and amperage ratings. It can be used for all conventional air switch applications and it does not require periodic maintenance, nor will the initial low effort required to open and close it increase over time.

BENEFITS

- Meets all ANSI standards
- Comes fully adjusted and ready to be mounted on the structure
- Suitable for horizontal upright, vertical, or underhung mounting
- Operated with manual operator or a Southern States type VM-1 motor operator

SPECIFICATIONS

Maximum Voltage Rating

245 kV – 800 kV

Continuous Current Rating

2000 A – 4000 A

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Aluminum Vertical
Break Switch



RATINGS

Maximum Voltage Rating (kV)	245	362	550	800
BIL (kV)	900/ 1050	1050/ 1300	1550/ 1800	1800/ 2050
Rated Power Frequency	60 Hz			
Continuous Current	2000 A - 3000 A - 4000 A			
Short-Time Symmetrical Withstand (3 Sec)	63 kA RMS			
Peak Withstand	164 kA			

KEY FEATURES

- Aluminum live part construction
- Hinge current transfer via reverse loop contact fingers with silver-to-silver current transfer surfaces
- Reverse loop jaw contact fingers with silver-to-silver current transfer surfaces
- 4 hole or 6 hole NEMA unplated cast aluminum terminal pads
- Maintenance free bearings
- Double channel or pipe base designs
- Can be furnished with a wide variety of accessories

Additional Applications

- Line disconnecting
- Line sectionalizing
- Isolation of other substation equipments (circuit breakers, circuit switchers, power transformers, etc)
- Bypassing other substation equipment
- Bus tie positions
- Magnetizing current interrupting (when furnished with appropriate arcing horns)
- Load breaking/loop splitting/line dropping/bus dropping/cable dropping (when furnished with appropriate arcing horns or interrupters)