



EV-2H

Aluminum Vertical
Disconnect Switch
550 kV - 800 kV

Robust Current Transfer & Hinge Mechanism Promote Maximum Reliability

Southern States' latest innovation, the EV-2H, supports reliability through its unique design. This heavy duty, highly efficient vertical break disconnect switch utilizes independent mechanical and electrical systems to produce the strongest possible design with the easiest accessible maintenance. An over toggle mechanism in both open and closed positions prevents the possibility for the blade to close in extreme weather and increases down force for high fault performance. Metal encased coil spring counterbalances reduce operating effort, are impervious to weather, and prevent catastrophic failure that is possible with linear springs. Using an all stainless steel bearing also ensures a long life in all operating conditions.

BENEFITS

- Mechanical operation is independent of the moving current joints, allowing efficient high current transmitting that promotes switch reliability and useful life.
- Superior mechanical strength & corrosion resistance
- Self-cleaning roller bearings & reverse loop current contacts
- Hinge over-toggle prevents closing in adverse weather conditions and utilizes high downward force on the blade to prevent it from popping open

SPECIFICATIONS

Maximum Voltage Rating
550 kV – 800 kV

Continuous Current Rating
2000 A / 3000 A / 4000 A

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**RATINGS**

Maximum Voltage Rating (kV)	550	800
BIL (kV)	1800	2050
Power Frequency	60 Hz	
Continuous Current	2000 A / 3000 A / 4000 A	
Short Time Withstand (3 sec)	63 kA / 75 kA / 80 kA	
Peak Withstand	164 kA / 195 kA / 208 kA	

KEY FEATURES

- Live parts designed without threaded joints
- Stainless steel shafts used in all pivot joints
- Heavy gauge steel channel base
- Counterbalance assembly uses coil spring with stainless steel shaft housed in aluminum tube
- Stainless steel roller bearings in an aluminum housing
- Reverse loop current contacts with 10 mils of brazed silver inlay on the hinge & jaw
- Silver to silver current transfer
- High pressure connection at all current transfer points
- Hinge over-toggle in both the open and closed positions
- Marine grade bushings