



CSV-DB & CSV-CB

Vertical Interrupter
Circuit Switcher with
Integral Disconnect Switch
72.5 kV – 170 kV

Southern States expands its line of vertical “Candlestick” Circuit Switchers to include an Integral Disconnect.

The Southern States 3 cycle CSV circuit switcher, for voltages thru 170 kV, is available with an integral disconnect switch mounted on a common structure. The switch can be either a double-end-break (RDA-1V) or a center break (EC-1V). Ratings are available thru 170 kV with interrupting ratings of up to 40 kA and continuous current ratings of up to 4000 A. In addition to the most complete range of ratings, this device can be mounted at various heights and phase spacings as well as be configured to mount on existing foundations.

FEATURES

- Disconnect Switch works with CSV to provide isolation after circuit interruption
- 3 cycle interrupting speed minimizes system disturbances
- Available with 40 kA interrupting rating
- Local and remote gas monitoring system
- Adaptable design can be configured to meet users mounting requirements
- A variety of optional features are available including Bypass switches, closing resistors, etc

SPECIFICATIONS

Maximum Voltage Ratings

72.5 kV – 170 kV

Continuous Current Ratings

1200 A, 1600 A, 2000 A, 3000 A, 4000 A

Primary Fault Interrupting Ratings

25 kA, 31.5 kA, 40 kA

Secondary Thru-Fault Interrupting Ratings

4 kA

Fault Close Rating

63 kA

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RATINGS

Maximum Voltage Rating (kV)	72.5	123	145	170
Interrupter/Blade BIL (kV)	350	550	650	750
Continuous Current	1200 A, 1600 A, 2000 A, 3000 A, 4000 A*			
Primary Fault Interrupting	25 kA, 31.5 kA, 40 kA			
Secondary Thru-Fault Interrupting	4 kA			
Interrupting Time	3 cycles			
Power Frequency	60 Hz			
Short-Time Withstand	40 kA (3 sec), 63 kA (1 sec)			
Peak Withstand	164 kA			
Short-Circuit Making	63 kA			
Insulator Design	Porcelain			
Ambient Temperature Range	-40° C to +50° C standard (-50° C to +50° C optional)			

*4000 A rating is only available thru 145 kV.

KEY ADVANTAGES

- Protection and isolation are accomplished via a single device
- Compact footprint minimizes number of required foundations
- Makes and breaks circuit in SF₆
- Ships with minimal gas pressure for safety during transportation and for handling during installation
- Local visual indication of gas pressure provided by color coded temperature compensated gas gauge
- Common gas system with gas density switch with low pressure alarm and low pressure lockout for remote status monitoring
- Adaptable to wide variety of phase spacings, column spacings, & anchor bolt patterns
- Adaptable to a wide variety of installation heights
- Straight forward mechanical design insures long life, repeatable operation

Application

- Transformer Protection

Rated Duty Cycle

O – 0.3 sec – CO – 15 sec – CO