



# 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 a double end break or a center break design. Ratings are available thru 170 kV with interrupting ratings of up to 50 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 50 kA interrupting rating
- Local and remote gas monitoring system
- Adaptable design can be configured to meet users mounting requirements

### SPECIFICATIONS

#### Maximum Voltage Ratings

72.5 kV – 170 kV

#### Continuous Current Ratings

2000 A, 3000 A, or 4000 A

#### Primary Fault Interrupting Ratings

25 kA, 31.5 kA, 40 kA

#### Secondary Thru-Fault Interrupting Ratings

4 kA

#### Fault Close Rating

50 kA

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## RATINGS

|                                    |                                                          |     |     |     |
|------------------------------------|----------------------------------------------------------|-----|-----|-----|
| Maximum Voltage Rating (kV)        | 72.5                                                     | 123 | 145 | 170 |
| Interrupter/Blade Minimum BIL (kV) | 350                                                      | 550 | 650 | 750 |
| Continuous Current                 | 2000 A, 3000 A, 4000 A*                                  |     |     |     |
| Power Frequency                    | 60 Hz                                                    |     |     |     |
| Short-Time Withstand               | 50 kA (3 sec)                                            |     |     |     |
| Peak Withstand                     | 130 kA                                                   |     |     |     |
| Insulator Design                   | Porcelain                                                |     |     |     |
| Ambient Temperature Range          | -40° C to +50° C standard<br>(-50° C to +50° C optional) |     |     |     |

## Circuit Switcher Ratings:

|                                   |                       |
|-----------------------------------|-----------------------|
| Primary Fault Interrupting        | 25 kA, 31.5 kA, 40 kA |
| Secondary Thru-Fault Interrupting | 4 kA                  |
| Interrupting Time                 | 3 cycles              |
| Short-Circuit Making              | 50 kA                 |

\* Consult factory for 4000A ratings

## KEY ADVANTAGES

- Protection and isolation are accomplished via a single device
- Compact footprint minimizes number of required foundations
- Makes and breaks circuit in SF<sub>6</sub>
- 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