

Vertical Circuit Switchers With Amazing Versatility, Superior Ratings, And Rock Solid Performance By Who? **Southern States, Of Course.**

Need 40 kA interrupting capability, 3 cycle interrupting time performance with puffer SF₆ interrupters instead of arc assist SF₆ interrupters?

Need to put a circuit switcher on existing foundations?

Need to put a circuit switcher on an existing structure?

Need 40 kA interrupting capability, 3 cycle interrupting time with an integrated double end break Vee disconnect switch furnished on the same structure as the circuit switcher?

Need 40 kA interrupting capability, 3 cycle interrupting time with an integrated center break Vee disconnect switch furnished on the same structure as the circuit switcher?

Want to have the choice of having this integrated switch be furnished with a manual operator or a motor operator?

Need a circuit switcher with integrated stored energy capability to allow an existing substation which presently has a power fuse protected power transformer to be upgraded to circuit switcher protection without needing to build a control house for a battery rack, a relay, and a communications device—instead integrating the battery function, the relay, and space for the communications device into a cabinet mounted on the circuit switcher itself?

Need a true 38 kV size vertical interrupter circuit switcher?

Need a 38 kV circuit switcher to perform shunt reactor switching at your wind farm substation?

Want to have the choice of the most phase spacing options available from any vertical interrupter circuit switcher supplier?

If you answered yes to any of the above questions (a good but by no means all encompassing list) then we have the products for you—our single gap per phase puffer SF₆ gas vertical interrupter circuit switchers—type CSV non-blade model, type CSV-DB double end break Vee blade model, and type CSV-CB center break Vee blade model. These units can be furnished for a variety of column spacings, anchor bolt spacings, phase spacings, structure heights, and more. And any of these units can be furnished with stored energy capability (UPS, relay, and space for customer furnished communications device), just add -SE to their type designation (e.g. CSV-SE, CSV-DB-SE, CSV-CB-SE). Below are photos of just a sampling of the different types of installations these can be used for.



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The Quality Name in High Voltage Switching



**Ratings Table For Southern States CSV Family Of Circuit Switchers
(CSV, CSV-DB, CSV-CB, CSV-SE, CSV-DB-SE, And CSV-CB-SE)**

Maximum Voltage	15.5 kV	27 kV	38 kV	48.3 kV	72.5 kV	123 kV	145 kV	170 kV	245 kV
BIL	110 kV	150 kV	200 kV	250 kV	350 kV	550 kV	650 kV	750 kV	900 kV
Continuous Current	1200 A 1600 A	1200 A 1600 A	1200 A 1600 A	1200 A 1600 A 2000 A 3000 A 4000 A	1200 A 1600 A 2000 A 3000 A 4000 A	1200 A 1600 A 2000 A 3000 A 4000 A	1200 A 1600 A 2000 A 3000 A 4000 A	1200 A 1600 A 2000 A 3000 A 4000 A	1200 A 1600 A
Primary Fault Interrupting	20 kA 25 kA	20 kA 25 kA	20 kA 25 kA	20 kA 25 kA 31.5 kA 40 kA	20 kA 25 kA 31.5 kA 40 kA	20 kA 25 kA 31.5 kA 40 kA	20 kA 25 kA 31.5 kA 40 kA	20 kA 25 kA 31.5 kA 40 kA	20 kA
Interrupting Time	5 cycles	5 cycles	5 cycles	3 cycles 5 cycles	3 cycles 5 cycles	3 cycles	3 cycles	3 cycles	6 cycles
Number of Full Fault Operations	10	10	10	10	10	10	10	10	30
Fault Closing Rating	5 time 25 kA	5 time 25 kA	5 time 25 kA	5 time 40 kA	5 time 40 kA	5 time 40 kA	5 time 40 kA	5 time 40 kA	10 time 40 kA
Ambient Temperature Range	-40°C to +50°C standard	-40°C to +50°C standard	-40°C to +50°C standard	-40°C to +50°C standard, -50°C to +50°C optional	-40°C to +50°C standard, -50°C to +50°C optional	-40°C to +50°C standard, -50°C to +50°C optional	-40°C to +50°C standard, -50°C to +50°C optional	-40°C to +50°C standard, -50°C to +50°C optional	-30°C to +50°C standard

Doesn't Your Power Transformer—Your Most Expensive Substation Asset—Deserve The Fastest, Most Capable, Most Versatile Vertical Interrupter Circuit Switcher Available?

If Your Answer Is Yes Then A Member Of The CSV Family Of Products (The CSV, The CSV-DB, The CSV-CB, The CSV-SE, Or The CSV-DB-SE) Is The Choice For You.

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