



CSH & CSH-B

Horizontal Interrupter
Circuit Switcher
38 kV – 170 kV

The most versatile and capable Horizontal Interrupter Circuit Switchers in the marketplace today.

The Southern States CSH and CSH-B circuit switchers are ideally suited for transformer protection providing up to 20 kA primary bus fault clearing capability and 4 kA transformer limited fault clearing capability. They can safely be applied on systems with 40 kA rms available fault current. All circuit making and breaking operations are accomplished in an SF₆ environment, eliminating open air arcs. Available with an optional integral air break isolation switch (Model CSH-B), the horizontal circuit switcher can be mounted in most any orientation including horizontal upright, vertical, and underhung positions.

FEATURES

- Makes and breaks circuit in SF₆ – No open air arcs
- Available with (Model CSH-B) and without (Model CSH) vertical break disconnect
- Visual dielectric indication
- Designed for use on systems with maximum source fault of 40 kA
- Readily adaptable for mounting on existing structures
- Available with porcelain or composite interrupter housings

SPECIFICATIONS

Maximum Voltage Ratings

38 kV – 170 kV

Continuous Current Ratings

1200 A and 1600 A

Designed for 40kA Systems

Primary Bus Fault Interrupting Rating

20 kA

Secondary Fault Interrupting Rating

4 kA

Fault Close Rating & Withstand Rating

40 kA

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RATINGS

Maximum Voltage Rating (kV)	38	48.3	72.5	123	145	170
Interrupter/Blade* BIL (kV)	550/200	550/250	550/350	550/550	750/650	750/750
Continuous Current**	1200 A & 1600 A for all kV ratings					
Primary Bus Fault Interrupting	20 kA for all kV ratings					
Secondary Fault Interrupting	4 kA					
Interrupting Time	5 cycles					
Power Frequency	60 Hz					
Short-Time Withstand	40 kA / 3 sec					
Peak Withstand	108 kA					
Short-Circuit Making	40 kA					
Ambient Temperature Range**	-40° C to +40° C standard					

* Blade BIL only applies to Model CSH-B

** Consult factory for higher current ratings or lower temperature ratings

KEY ADVANTAGES

- Makes and breaks the circuit in SF₆ gas
- 5 cycle interrupting speed minimizes system disturbances
- Puffer interrupters provide long contact life and multi-time fault close capability
- Single gap interrupters provide full BIL without the need for an integral disconnect switch or voltage grading resistors/capacitors
- Simple, easy erection minimizes field installation time required—all kV ratings ship with the insulators factory assembled and adjusted as standard
- Standard porcelain interrupter ships with minimal gas pressure for safety during transportation and in handling during installation. Can be shipped pressurized when composite housing is specified or optional shipping shield is supplied
- Adaptable to a wide variety of mounting positions, structure heights, and phase spacings
- Ideally suited to upgrade fault interrupting capability of existing horizontal circuit switcher installations (all Mfgs), reusing the existing switcher's structure and foundation