



CSH2 & CSH2-B

Horizontal Interrupter
Circuit Switcher
38 kV – 145 kV

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

The Southern States CSH2 and CSH2-B circuit switchers are ideally suited for transformer protection providing up to 40 kA primary bus fault clearing capability and 4 kA transformer limited fault clearing capability. 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 CSH2-B), the horizontal circuit switcher can be mounted in most orientations including horizontal upright, vertical, and underhung positions.

FEATURES

- Makes and breaks circuit in SF₆ – No open air arcs
- Available with (Model CSH2-B) & without (Model CSH2) vertical break disconnect
- Visual dielectric indication
- Fault close rating of 40 kA
- Readily adaptable for mounting on existing structures
- Composite interrupter housings

SPECIFICATIONS

Maximum Voltage Ratings

38 kV – 145 kV

Continuous Current Ratings

1200 A & 1600 A

Primary Bus Fault Int Rating (PBF100)

31.5 kA & 40 kA

Transformer Ltd Fault Int Rating (TLF)

4 kA

Interrupting Time

5 cycles

Fault Close Rating & Withstand Rating

40 kA

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BLADE BIL RATINGS (FOR CSH2-B)

Max Voltage	38 kV	48.3 kV	72.5 kV	123 kV	145 kV
Blade BIL	200 kV	250 kV	300 kV	550 kV	650 kV

650 KV BIL INTERRUPTER RATINGS ¹

	Temp Range	≤ 72.5 kV	123 kV	145 kV ²	Interrupter Housing
PBF 100s	-30°C to +50°C	40 kA			Composite
	-40°C to +50°C	31.5 kA			
TLF ²	-40°C to +50°C	4 kA			

1) Ratings shown are for 1200A. For 1600A, top temperature is +40°C

2) 145 kV ratings are for Grounded Systems (1.3 k_{pp})

3) There is not a 2000A rating available

4) The CSH2 is currently not offered at temperatures below -40°C

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
- Composite interrupter is standard and shipped fully pressurized
- 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)
- The only 40 kA circuit switcher available for mobile applications
- Southern States 5-year warranty promises trouble-free operation