

**SOUTHERN STATES HORIZONTAL CIRCUIT SWITCHER RATINGS**

The following ratings are to be utilized for Southern States Horizontal Circuit Switchers rated thru 245 kV.

**CSH/CSH-B 550 KV BIL INTERRUPTER <sup>1</sup>**

|          | Temp Range     | ≤ 72.5 kV           | 123 kV              |
|----------|----------------|---------------------|---------------------|
| PBF 100s | -30°C to +50°C |                     | 20 kA               |
|          | -40°C to +50°C | 25 kA               |                     |
|          | -50°C to +40°C | 15 kA <sup>5</sup>  | 12 kA <sup>5</sup>  |
| TLF      | -40°C to +50°C | 4 kA                | 2.9 kA <sup>2</sup> |
|          | -50°C to +40°C | 2.5 kA <sup>5</sup> | 1.7 kA <sup>5</sup> |

**Notes:**

1. Ratings shown are for 1200A. For 1600A, top temp is +40°C.
2. Nameplate will include note "TLF = 4 kA @ 7.6 kV/μs TRV."
3. Ratings **do not** apply to 2000A.
4. Ratings apply to both Porcelain and Composite Interrupter Housings.
5. SF<sub>6</sub> / N<sub>2</sub> Gas Mixture
6. All ratings are suitable for ungrounded systems (1.5 kpp).

**CSH/CSH-B 900 KV BIL INTERRUPTER <sup>1</sup>**

|          | Temp Range <sup>1</sup> | 245 kV <sup>5</sup>  |
|----------|-------------------------|----------------------|
| PBF 100s | -30°C to +50°C          | 20 kA                |
|          | -50°C to +40°C          | 12.5 kA <sup>4</sup> |
| TLF      | -30°C to +50°C          | 4 kA                 |
|          | -50°C to +40°C          | 2 kA <sup>4</sup>    |

**Notes:**

1. Ratings shown are for 1200A and 1600 A.
2. Ratings **do not** apply to 2000A.
3. Ratings apply to both Porcelain and Composite Interrupter Housings.
4. SF<sub>6</sub> / N<sub>2</sub> Gas Mixture
5. The 245 kV rating is suitable for Grounded Systems.

**CSH/CSH-B 750 KV BIL INTERRUPTER <sup>1</sup>**

|          | Temp Range     | ≤ 72.5 kV           | 123 kV              | 145 kV              | 170 kV <sup>6</sup> |
|----------|----------------|---------------------|---------------------|---------------------|---------------------|
| PBF 100s | -40°C to +50°C | 25 kA               | 20 kA <sup>3</sup>  |                     |                     |
|          | -50°C to +40°C | 15 kA <sup>7</sup>  | 12 kA <sup>7</sup>  |                     |                     |
| TLF      | -40°C to +50°C | 4 kA                | 2.9 kA <sup>2</sup> | 2.3 kA <sup>2</sup> | 2.7 kA <sup>2</sup> |
|          | -50°C to +40°C | 2.5 kA <sup>7</sup> | 1.7 kA <sup>7</sup> | 1.4 kA <sup>7</sup> | 1.6 kA <sup>7</sup> |

**Notes:**

1. Ratings shown are for 1200A. For 1600A, top temp is +40°C.
2. Nameplate will include note "TLF = 4 kA @ 7.6 kV/μs TRV."
3. For existing installations, the 123 kV can also be rated 25 kA for -30°C to + 50°C. If 25 kA is specified for a new installation, the CSH2 design should be utilized.
4. Ratings **do not** apply to 2000A.
5. Ratings apply to both Porcelain and Composite Interrupter Housings .
6. 170 kV ratings are for Grounded Systems (1.3 k<sub>pp</sub>).
7. SF<sub>6</sub> / N<sub>2</sub> Gas Mixture

**CSH2/CSH2-B 650 KV BIL INTERRUPTER WITH HIGH ENERGY DRIVER <sup>1</sup>**

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

**Notes:**

1. Ratings shown are for 1200A. For 1600A, top temp is +40°C.
2. The 145 kV rating is for Grounded Systems (1.3 k<sub>pp</sub>).
3. The CSH2 is currently not offered at temperatures below -40°C