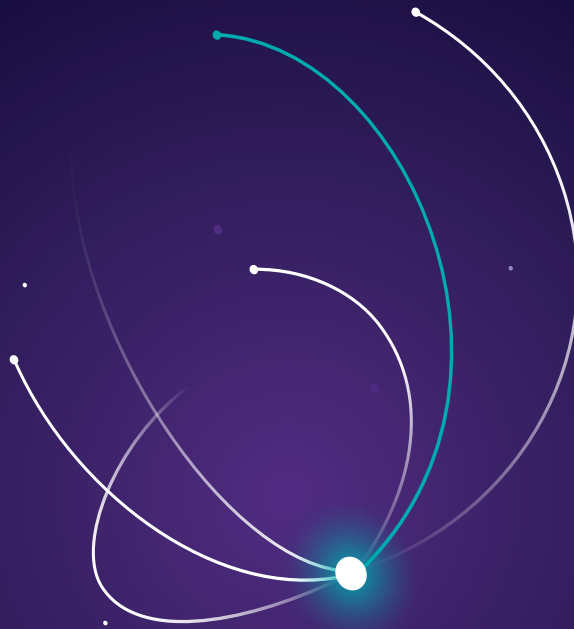


## SPS2S 245 kV

### High Voltage Dead Tank Circuit Breakers

[siemens-energy.com](https://www.siemens-energy.com)



#### Globally standardized design

Siemens Energy SPS2S 245 kV dead tank circuit breakers utilize the time-tested FA spring- spring operating mechanism and 3AP arc assist interrupter common to the entire SPS2 portfolio.

Siemens Energy has delivered over 160,000 breakers worldwide, with over 46,000 SPS2 circuit breakers to the US market alone since release in 1997.

#### Standard features

- No TRV capacitors necessary for breakers rated up to 63 kA
- 2 or 3 cycle interrupting time options
- Ships fully assembled and factory tested
- No in-field adjustments and virtually no maintenance

#### Application-based customizations

- Independent pole operation (IPO) and phase synchronizing device (PSD) for reliable point-on-wave switching
- High seismic designs (per IEEE 693)
- Tank heaters for operation to -50° C
- Composite bushings
- Etc. – Please contact your local Siemens Energy representative

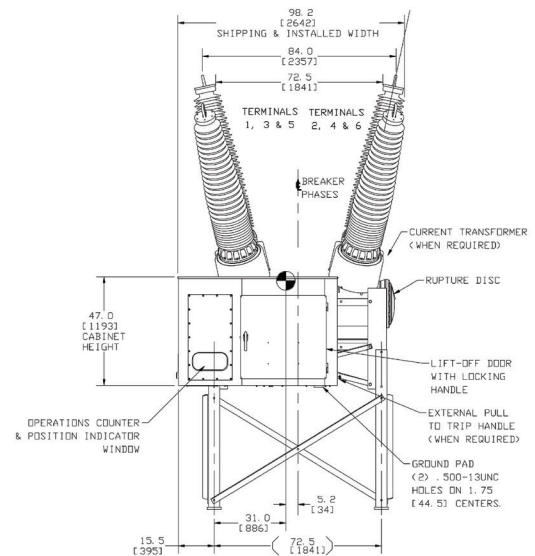
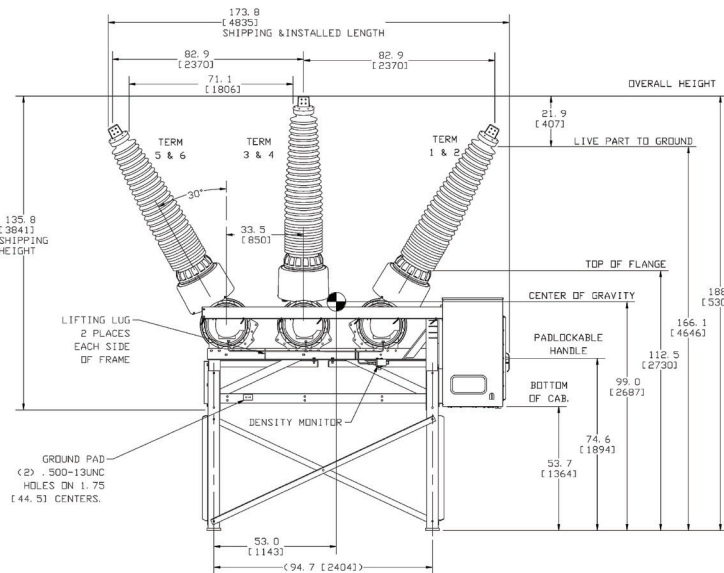
## Ratings

| Type      | Related max kV | Rated continuous current (A, rms) | Rated short circuit current at rated (kA) | Interrupting time (cycles) | Lightning impulse withstand voltage BIL, (kV) | Chopped wave, 2 $\mu$ s (kA) | Closing and latching capability (kA) |
|-----------|----------------|-----------------------------------|-------------------------------------------|----------------------------|-----------------------------------------------|------------------------------|--------------------------------------|
| SPS2S-245 | 245            | up to 4000                        | up to 63                                  | 2 or 3                     | Up to 1050                                    | 1160                         | up to 170                            |
| SPS2-245  | 245            | up to 4000                        | up to 90                                  | 2 or 3                     | Up to 1050                                    | 1160                         | up to 234                            |

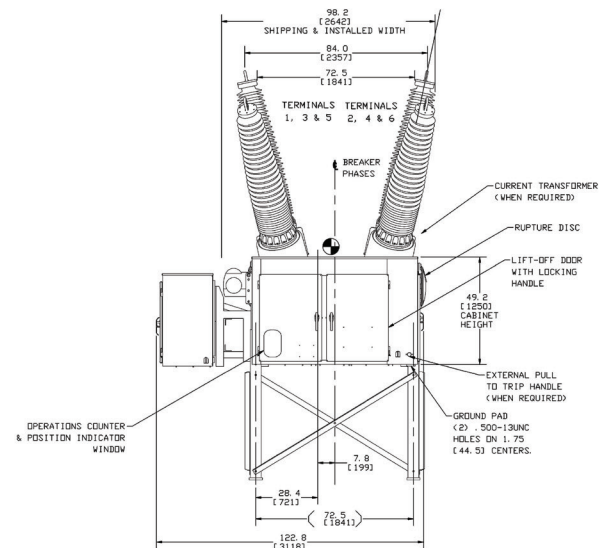
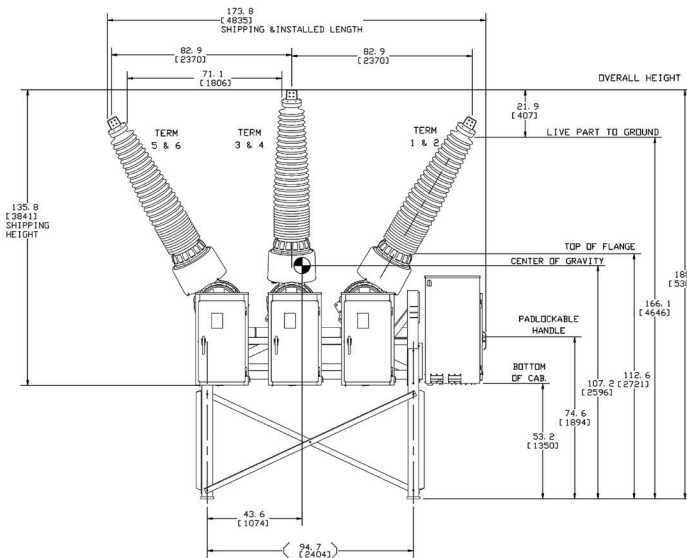
| Supplementary specifications      |                    | Standard                        | Custom          |
|-----------------------------------|--------------------|---------------------------------|-----------------|
| Operating temperature range       | [C]                | -30 to 55                       | -50 to 55       |
| Rated reclosing time              | cycles             | 12                              | –               |
| Rated duty cycle                  | –                  | OCO – 15s – CO<br>(no derating) | –               |
| External creep                    | [in]               | 215                             | 241             |
| Breaker weight                    | [lb]               | 12,000                          | –               |
| SF <sub>6</sub> weight / pressure | [lb/psi]           | 162 / 87                        | –               |
| Seismic withstand                 | –                  | IEEE 693                        | IEEE 693 (high) |
| Mechanical endurance              | –                  | Class M2                        | –               |
| Capacitive switching              | –                  | Class C2                        | –               |
| Motor voltage                     | [V <sub>dc</sub> ] | 48/125/250                      | –               |
|                                   | [V <sub>ac</sub> ] | 120/240                         | –               |
| Auxiliary voltage                 | [V <sub>ac</sub> ] | 120/240                         | –               |
| Trip and close coil rating        | [V <sub>dc</sub> ] | 48/125/250                      | –               |

## SPS2S 245 kV Dimensions

### SPS2-245



### SPS2-245, 90 kA IPC



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