The Standard Mounting Arrangements for S&C Alduti-Rupter Switches

Three-pole S&C Alduti-Rupter Switches for outdoor distribution are offered in an unequalled variety of Standard Mounting Arrangements—a selection of arrangements that cuts your engineering costs as well as lead time.

**Note:** Vertical-Break Integer, Side-Break Integer, and Double-Break Integer Alduti-Rupter Switches, unlike other styles of Three-Pole Alduti-Rupter Switches, consist of three switch poles factory-assembled on a single base. Integer Styles are offered in a variety of basic mounting arrangements illustrated on pages 4, 8, 9, 16, and 17. Certain statements in this document do not apply to the Integer Styles; such statements are indicated by footnote “*.”

The selector charts that follow illustrate 96 Standard Mounting Arrangements, classified by:

- Type of mounting—single-pole, two-pole, structure, or pedestal.
- Type of operating mechanism—rotating or reciprocating.

Many advantages accrue from using one of the Standard Mounting Arrangements:

**No Design Delays; No Ordering Delays**

Switches can be ordered immediately, and you can complete your line or station layout, plus actual design work, from erection drawings (EDs) that are immediately available. No other drawings are required from S&C to adapt the switches to the majority of applications.

**Reduced Shipping Time**

Shipping time is greatly reduced because there is no delay for custom engineering, customer approval, or time-consuming fabrication of special parts.

**Stocking Switches for Immediate Use**

Standard Mounting Arrangements make it possible for you to buy and warehouse a quantity of Alduti-Rupter Switches with operating mechanisms for your preferred arrangements, for use in future installations. You can withdraw a switch from stock at any time and install it, without delay.

**No Problem with Last-Minute Changes**

In the event of a last-minute change, you can choose a new arrangement from the selector charts, and locate the erection drawing for the desired arrangement on sandc.com. By comparing the bills of material on the EDs, you can determine if additional or different parts will be required.

**Erection Drawings Immediately Available**

Each Standard Mounting Arrangement in the selector charts is identified with an ED number; this number indicates the erection drawing corresponding to the mounting arrangement. EDs are printed in legible, double-page, “D” Size format folded to “A” size for convenient filing. They are available at no charge in as many copies as required; just ask the local S&C Sales Office for the ED numbers needed.

Each erection drawing is complete with detailed installation data, including an outline drawing of the mounting arrangement, base details, operating-mechanism component details, a bill of materials, installation notes and illustrations, and recommended clearances.

Typical erection drawing, reduced from full “D” Size.
Standard Mounting Arrangements

When a Standard Mounting Arrangement is specified, the shipment will include:

- Three switch poles or, in the case of an Integer Style Alduti-Rupter, a three-pole switch, complete with interphase drive, factory-assembled on a single base.
- Mounting pedestal, if ordered (Vertical-Break and Double-Break Integer Style Alduti-Rupters for Pedestal Mounting only).
- The appropriate number of sections of vertical operating pipe and interphase pipe. Refer to the table below for vertical operating pipe included with each Standard Mounting Arrangement.
- The appropriate set of operating-mechanism components; e.g., handle, rod guides, couplings, bell crank assembly, etc.
- The appropriate detailed erection drawing.
- Complete installation instructions.

What About Specials?

Departures from Standard Mounting Arrangements are easily handled. They fall into three categories:

2. Special Minor Modifications of Standard Mounting Arrangements.
3. Special Mounting Arrangements.

Standard Minor Modifications

Standard Minor Modifications are those which are so frequently encountered that they are included on S&C’s basic erection drawings. Standard Minor Modification(s) may be specified by adding the following suffixes to the Standard Mounting Arrangement ED number:

- S1 2½-inch diameter tubular fiberglass insulating section in vertical operating shaft.
- S2 One Cypoxy™ Insulator unit in vertical operating shaft.
- S3 Insulated interphase operating shaft and one fiberglass insulating section in vertical operating shaft.
- S4 Insulated interphase operating shaft and one Cypoxy Insulator unit in vertical operating shaft.
- S5 2-inch NPS pipe. Required for rotating-type operating mechanism when vertical shaft exceeds three 10’-4” sections (four 10’-4” sections for Side-Break Heavy-Duty Switches).
- S5A One extra 2-inch NPS pipe section.
- S5B Two extra 2-inch NPS pipe sections.
- S5C Three extra 2-inch NPS pipe sections.
- S6 Key interlock—single lock for “locked-open” or “locked-closed” application.
- S6L Provision for key interlock (lock supplied by customer).
- S7 Auxiliary contact switch (4NO, 4NC contacts).
- S8 Provision for power operation of pole-mounted switch by S&C Type AS-10 Switch Operator (for reciprocating-type operating mechanism), Type AS-1A Switch Operator (for rotating-type operating mechanism), or LS-2 Switch Operator (for 69-kV switches with rotating-type mechanism).

See “Note” at top left of page 1.

★ Cypoxy is the trademark for S&C’s cycloaliphatic epoxy resin system. Cypoxy is nontracking, self-scouring, nonweathering...there’s never a compromise of insulation integrity.

Vertical Operating Pipe Included with Standard Mounting Arrangements

<table>
<thead>
<tr>
<th>Alduti-Rupter Switch</th>
<th>For Standard Mounting Arrangements Having</th>
<th>Reciprocating-Type Operating Mechanism</th>
<th>Rotating-Type Operating Mechanism</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Style</td>
<td>Rating, kV</td>
<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
</tr>
<tr>
<td>Side-Break Integer</td>
<td>All</td>
<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
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<td>Side-Break Heavy-Duty</td>
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<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
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<tr>
<td>Vertical-Break Integer</td>
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<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
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<tr>
<td>Vertical-Break</td>
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<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
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<tr>
<td>Double-Break 34.5 &amp; 46</td>
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<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
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<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
<td>(3) 10'-4&quot; sections of 2&quot; NPS</td>
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<td>(3) 10'-4&quot; sections of 1½&quot; NPS</td>
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</tbody>
</table>

① Switches in the pedestal mounting configuration include (1) 10'-4" section.
② Switches in the pedestal mounting configuration include (1) 10'-4" section and (1) 5'-'2" section.
-S9 Provision for power operation of steel-structure or pedestal-mounted switch by S&C Type AS-10 Switch Operator (for reciprocating-type operating mechanism), Type AS-1A Switch Operator (for rotating-type operating mechanism), or LS-2 Switch Operator (for 69-kV switches with rotating-type mechanism).

-S16 Provision for power operation of switches by 6801M Automatic Switch Operator—rotating or reciprocating.

-V1 One extra 1¼-inch NPS pipe section (for reciprocating-type operating mechanism).

-V2 Two extra 1¼-inch NPS pipe sections (for reciprocating-type operating mechanism).

Refer to the table below for Standard Minor Modification availability for each style switch.

**Special Minor Modifications**

Special Minor Modifications of Standard Mounting Arrangements are those which include such departures as special base drillings or special mounting brackets for operating-mechanism components. For this category of “special,” S&C will prepare a custom erection drawing based on the Standard Mounting Arrangement erection drawing.

**Special Mounting Arrangements**

Special Mounting Arrangements are those which include complete departures from the Standard Mounting Arrangements and are usually brought about by S&C being asked to customize an Alduti-Rupter Switch to fit the user's structure. Custom erection drawings will be prepared as required.

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**Guide to Using the Selector Charts**

Alduti-Rupter Switches for outdoor distribution are offered in Side-Break Integer, Side-Break, Vertical-Break Integer, Vertical-Break, Double-Break, and Double-Break Integer Styles. Each is fully described in S&C Specification Bulletin 761-31, which should be reviewed before using the selector charts on the following pages. These charts are arranged by style of switch, as follows:


For each switch style, mountings are shown, as available, for installation on single poles, two poles, or a structure, whether of wood or steel—or, for certain styles, on a pedestal. Mounting provisions are shown for both rotating and reciprocating-type operating mechanisms.

Each drawing in the charts represents schematically the corresponding Standard Mounting Arrangement erection drawing. The ED number indicated should be used in ordering the required erection drawing. The drawing supplied may be supplemented with the letter “R” followed by a digit, indicating the most recent modification of construction details.

◆ See "Note" at top left of page 1.

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### Standard Minor Modification Availability

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<thead>
<tr>
<th>Alduti-Rupter Switch Style</th>
<th>Rating, kV</th>
<th>-S1</th>
<th>-S2</th>
<th>-S3</th>
<th>-S4</th>
<th>-S5</th>
<th>-S6</th>
<th>-S6L</th>
<th>-S7</th>
<th>-S8</th>
<th>-S9</th>
<th>-S16</th>
<th>-V1</th>
<th>-V2</th>
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</table>

① The Standard Minor Modifications for this style of switch are available on a selective basis only, as indicated in S&C Specification Bulletin 761-31.

② The Standard Minor Modifications for this style of switch are available on a selective basis only. Consult the nearest S&C Sales Office.
## Side-Break Integer Style

For Mounting on a Single Pole—Wood, Steel, Concrete, or Composite

<table>
<thead>
<tr>
<th>Upright Mounting Configuration</th>
<th>Vertical Mounting Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotating</td>
<td>Rotating</td>
</tr>
</tbody>
</table>

### Upright Mounting Configuration

- **Steel-Base Switches:**
  - For two switch poles on left:
    - ED-135R20
  - (As shown)
  - ED-669R3
  - For two switch poles on right:
    - ED-136R20
    - ED-667R3

- **Insulated-Base Switches:**
  - For two switch poles on left:
    - ED-635R4
    - ED-639R3
  - For two switch poles on right:
    - ED-636R4
    - ED-637R3

### Tiered Outboard Mounting Configuration

- **Reciprocating**

- **Steel-Base Switches:**
  - ED-140R21
  - (As shown)
  - ED-669R3

- **Insulated-Base Switches:**
  - ED-144R19
  - (As shown)
  - ED-676R3

### Steel-Base Switches:

- ED-140R21
- ED-669R3

### Insulated-Base Switches:

- ED-669R3
- ED-676R3

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- Refer to Specification Bulletin 761-31 for available voltage and current ratings.
- Applicable for Side-Break Integer Style Switches with Steel or Insulated bases.
- To be used with counterclockwise-opening switch.
  - ▲ For switches rated 14.4 kV and 25 kV.
  - ◄ For switches rated 25/34.5 kV and 34.5 kV.
  - ◄ To be used with clockwise-opening switch.
## Side-Break Heavy-Duty Style and Standard-Duty Styles

For Mounting on a Single Pole—Wood, Steel, Concrete, or Composite

<table>
<thead>
<tr>
<th>Upright Mounting Configuration</th>
<th>Vertical Mounting Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotating</td>
<td>Reciprocating</td>
</tr>
</tbody>
</table>

- **ED-91R14** ★ ▲
- **ED-91ER2** ★ ▼
- **ED-91AR9** ★ ◊

- **ED-89R13** ★ ▲

- ★ Refer to Specification Bulletin 761-31 for available voltage and current ratings.
- ★ To be used with counterclockwise-opening switch.
- ▲ For switches rated 14.4 kV and 25 kV.
- ○ For switches rated 34.5 kV.
- ◊ For Side-Break Standard-Duty Style Switches, for mounting on a single pole—wood or steel.
Side-Break Heavy-Duty Styles

For Mounting on Two Poles—Wood, Steel, Concrete, or Composite

<table>
<thead>
<tr>
<th>Vertical Mounting Configuration①</th>
<th>Vertical Mounting Configuration②</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotating</td>
<td>Reciprocating</td>
</tr>
</tbody>
</table>

① For Side-Break Heavy-Duty Style Switches, for mounting on two poles—wood or steel.
② For Side-Break Standard-Duty Style Switches, for mounting on a single pole—wood or steel.
● Refer to Specification Bulletin 761-31 for available voltage and current ratings.

Rotating

As shown
ED-97R12 ▲
For handle on left
ED-98R12 ☆ ▲

As shown
ED-119ER3 ◞●
For two switch poles on left
ED-120ER1 ☆ ▲

Upright Mounting Configuration②

Rotating

ED-99R13 ☆ ▲
ED-99ER2 ☆ ◞●

● To be used with clockwise-opening switch.
▲ For switches rated 14.4 kV and 25 kV.
☆ To be used with counterclockwise-opening switch.
● For switches rated 34.5 kV.
### Side-Break Heavy-Duty Style—Continued

#### For Mounting on a Structure

<table>
<thead>
<tr>
<th>Upright Mounting Configuration</th>
<th>Rotating—Direct or Single Offset</th>
<th>Rotating—Double Offset</th>
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<tbody>
<tr>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
<td><img src="image3" alt="Diagram" /></td>
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<tr>
<td>As shown</td>
<td>ED-103R12 ▲</td>
<td>ED-106R12 ▲</td>
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<td>ED-103ER2 ▼</td>
<td>ED-106ER2 ▼</td>
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<tr>
<td>For handle on left</td>
<td>ED-104R12 ▲</td>
<td>ED-106R12 ▲</td>
</tr>
<tr>
<td></td>
<td>ED-104ER2 ▼</td>
<td>ED-106ER2 ▼</td>
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</table>

<table>
<thead>
<tr>
<th>Vertical Mounting Configuration</th>
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<td><img src="image4" alt="Diagram" /></td>
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<tr>
<td>As shown</td>
<td>ED-97R12 ▲</td>
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<tr>
<td>For handle on left</td>
<td>ED-98R12 ▲</td>
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</tbody>
</table>

- Refer to Specification Bulletin 761-31 for available voltage and current ratings.
- ▲ To be used with counterclockwise-opening switch.
- ▼ For switches rated 14.4 kV and 25 kV.
- ▼ For switches rated 34.5 kV.
- ■ To be used with clockwise-opening switch.

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## Vertical-Break Integer Style

For Mounting on a Single Pole—Wood, Steel, Concrete, or Composite

<table>
<thead>
<tr>
<th>Pole-Top Mounting Configuration</th>
<th>Upright Mounting Configuration</th>
<th>Vertical Mounting Configuration</th>
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</thead>
<tbody>
<tr>
<td>Reciprocating</td>
<td>Reciprocating</td>
<td>Reciprocating</td>
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</table>

![Reciprocating Pole-Top Mounting Configuration](image)

ED-152R3

ED-153R5

ED-154R5

<table>
<thead>
<tr>
<th>Tiered Outboard Mounting Configuration</th>
<th>Triangular Mounting Configuration</th>
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<tbody>
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<td>Rotating</td>
<td>Reciprocating</td>
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![Rotating Tiered Outboard Mounting Configuration](image)

ED-155R6

ED-156R5

- Refer to Specification Bulletin 761-31 for available voltage and current ratings.
Vertical-Break Integer Style—Continued

For Pedestal Mounting

<table>
<thead>
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- Refer to Specification Bulletin 761-31 for available voltage and current ratings.
### Vertical-Break Style

**For Mounting on a Single Pole—Wood, Steel, Concrete, or Composite**

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<th>Vertical Mounting Configuration</th>
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</table>

- Refer to Specification Bulletin 761-31 for available voltage and current ratings.
- For switches rated 14.4 kV (600 A and 1200 A) and 25 kV (600 A and 1200 A).
Vertical-Break Style—Continued

For Mounting on Two Poles—Wood, Steel, Concrete, or Composite

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<tr>
<td>For handle on left</td>
<td></td>
</tr>
<tr>
<td>ED-56R12▲</td>
<td></td>
</tr>
</tbody>
</table>

- Refer to Specification Bulletin 761-31 for available voltage and current ratings.
- For switches rated 14.4 kV (600 A and 1200 A) and 25 kV (600 A and 1200 A).
## Vertical-Break Style—Continued

### For Mounting on a Structure

#### Upright Mounting Configuration

<table>
<thead>
<tr>
<th>Rotating—Direct or Single Offset</th>
<th>Rotating—Double Offset</th>
<th>Reciprocating</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Rotating—Direct or Single Offset" /></td>
<td><img src="image2" alt="Rotating—Double Offset" /></td>
<td><img src="image3" alt="Reciprocating" /></td>
</tr>
</tbody>
</table>
| As shown ED-59ER1 ▲  
ED-59R11 ▲  
For handle on left ED-60ER1 ▲  
ED-60R11 ▲  | ED-61R12 ▲  | As shown ED-81ER1 ▲  
ED-81R16 ▲  
For handle on left ED-82ER1 ▲  
ED-82R16 ▲  |

#### Vertical Mounting Configuration

<table>
<thead>
<tr>
<th>Rotating</th>
<th>Reciprocating</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Rotating" /></td>
<td><img src="image5" alt="Reciprocating" /></td>
</tr>
</tbody>
</table>
| As shown ED-53ER1 ▲  
ED-53R12 ▲  
shown on page 11  
For handle on left ED-54ER1 ▲  
ED-54R11 ▲  | As shown ED-75ER1 ▲  
ED-75R21 ▲  
shown on page 11  
For handle on left ED-76ER1 ▲  
ED-76R20 ▲  |

- Refer to Specification Bulletin 761-31 for available voltage and current ratings.
- ▲ For switches rated 14.4 kV (2400 A), 25/34.5 kV and 34.5 kV.
- ▲ For switches rated 14.4 kV (600 A and 1200 A) and 25 kV (600 A and 1200 A).
### Double-Break Style

**For Mounting on a Single Pole—Wood, Steel, Concrete, or Composite**

<table>
<thead>
<tr>
<th>Vertical Mounting Configuration</th>
<th>Upright Mounting Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotating</td>
<td>Rotating</td>
</tr>
</tbody>
</table>

- **ED-1R15**
- **ED-1C**

<table>
<thead>
<tr>
<th>Upright Mounting Configuration</th>
<th>Tiered Outboard Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotating</td>
<td>Reciprocating</td>
</tr>
</tbody>
</table>

- **ED-5BR14**
- **ED-5C**

- **ED-27R18**

---

* Refer to Specification Bulletin 761-31 for available voltage and current ratings.
* For Double-Break switches with -G option (ground switches), consult the nearest S&C Sales Office for ED.

△ For switches rated 34.5 kV and 46 kV.
□ For switches rated 69 kV only.
Double-Break Style—Continued

For Mounting on Two Poles—Wood, Steel, Concrete, or Composite

<table>
<thead>
<tr>
<th>Vertical Mounting Configuration</th>
<th>Reciprocating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotating</td>
<td></td>
</tr>
</tbody>
</table>

As shown
ED-9R14 △
ED-9C □

For Handle on left
ED-10R12
ED-10C □

As shown
ED-31R23 △
ED-31C □

For Handle on left
ED-32R21 △
ED-32C □

Upright Mounting Configuration

Rotating

As shown
ED-11R14 △
ED-11C □

For handle on left
ED-12R14 △
ED-12C □

Inverted Mounting Configuration

Rotating

ED-13R15 △

- Refer to Specification Bulletin 761-31 for available voltage and current ratings.
- For Double-Break switches with -G option (ground switches), consult the nearest S&C sales office for ED.
- △ For switches rated 34.5 kV and 46 kV.
- □ For switches rated 69 kV only.
Double-Break Style—Continued

For Mounting on a Structure

<table>
<thead>
<tr>
<th>Vertical Mounting Configuration</th>
<th>Rotating</th>
<th>Reciprocating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotating—Single Offset</td>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
</tr>
<tr>
<td>Rotating—Double Offset</td>
<td><img src="image3" alt="Diagram" /></td>
<td><img src="image4" alt="Diagram" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upright Mounting Configuration</th>
<th>Rotating—Direct or Single Offset</th>
<th>Rotating—Double Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="Diagram" /></td>
<td><img src="image6" alt="Diagram" /></td>
<td><img src="image7" alt="Diagram" /></td>
</tr>
</tbody>
</table>

- Refer to Specification Bulletin 761-31 for available voltage and current ratings.
- For Double-Break switches with -G option (ground switches), consult the nearest S&C Sales Office for ED.
- For switches rated 34.5 kV and 46 kV.
- For switches rated 69 kV only.
## Double-Break Integer Style

For Mounting on a Single Pole—Wood, Steel, Concrete, or Composite

<table>
<thead>
<tr>
<th>Upright Mounting Configuration</th>
<th>Vertical Mounting Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotating</td>
<td>Reciprocating</td>
</tr>
</tbody>
</table>

![Diagram of Upright Mounting Configuration](ED-160R1)

![Diagram of Vertical Mounting Configuration](ED-161)

<table>
<thead>
<tr>
<th>Tiered Outboard Mounting Configuration</th>
<th>Pole-Top Mounting Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reciprocating</td>
<td>Rotating</td>
</tr>
</tbody>
</table>

![Diagram of Tiered Outboard Mounting Configuration](ED-162)

![Diagram of Pole-Top Mounting Configuration](ED-163R1)

*Refer to Specification Bulletin 761-31 for available voltage and current ratings.*
Double-Break Integer Style—Continued
For Pedestal Mounting

<table>
<thead>
<tr>
<th>Pedestal Mounting Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotating</td>
</tr>
</tbody>
</table>

Refer to Specification Bulletin 761-31 for available voltage and current ratings.