S&C Alduti-Rupter three-pole switches with power fuses for outdoor distribution are offered in a variety of Standard Mounting Arrangements—a selection of arrangements that cuts the user’s engineering costs and cuts down on lead time.

The selector chart on pages 4 through 7 illustrate 32 Standard Mounting Arrangements, classified by:

- Style of switch—double-break or vertical break.
- Type of operating mechanism—rotating or reciprocating.
- Type of mounting—single-pole, two-pole, or structure (wood or steel).

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

**No Design Delays; No Ordering Delays**

Switches with power fuses can be ordered immediately, and the user can complete his line or station layout, plus actual design work, from erection drawings (ED) that are readily 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 customized engineering, customer approval, or time consuming fabrication of out-of-the-ordinary parts.

**Stocking Switches for Immediate Use**

Standard Mounting Arrangements make it possible for the user to buy and warehouse a quantity of Alduti-Rupter Switches with Power Fuses with operating mechanisms for the user’s preferred arrangements, for use in future installations. Thus, at any time, a switch may be withdrawn from stock and installed without delay.

**No Problem with Last-Minute Changes**

In the event of a last-minute change, the user can choose a new arrangement from the selector charts, and locate in the engineering files the erection drawing (ED) for the desired arrangement. Then, a comparison of the bills of materials on the erection drawings (ED) will indicate whether additional or different parts will be required and will permit immediate ordering of such parts.

**Erection Drawings (ED) Immediately Available**

Each Standard Mounting Arrangement in the selector charts is identified with an erection drawing (ED) number; this number indicates the erection drawing (ED) corresponding to the mounting arrangement. Erection drawings (ED) are printed in legible, double-page, 11" × 17" format folded to 8½" × 11" for convenient filing. They are available at no charge in as many copies as may be required; just ask the local S&C Sales Office for the erection drawing (ED) numbers needed.

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

**What a Standard Mounting Arrangement Includes**

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

- Three switch poles.
- The appropriate number of sections of vertical pipe and interphase pipe. Operating mechanism includes three 10′–4″ sections of vertical pipe (1½″ NPS for reciprocating operating mechanisms and 1½″ NPS for rotating operating mechanisms).
- The appropriate set of operating-mechanism components; e.g., handle, rod guides, couplings, bell crank assembly; etc.
- The appropriate detailed erection drawing (ED).
- Complete installation and maintenance 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 (ED). The applicable Standard Minor Modification(s) may be specified by adding one of the following suffixes to the Standard Mounting Arrangement erection drawing (ED) number:

- **S1** ⅝-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).

The above-listed Standard Minor Modifications are available on a selective basis only. Consult the nearest S&C Sales Office.

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 (ED) based on the Standard Mounting Arrangement erection drawing (ED).

★ 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.
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 with Power Fuses to fit the user's application. Custom erection drawings (ED) will be prepared as required.

Guide to Using the Selector Chart

S&C three-pole Alduti-Rupter Switches with Power Fuses for outdoor distribution are offered in the Double-Break and Vertical-Break Styles, each of which is fully described in S&C Specification Bulletin 771-31. It is recommended that this bulletin be reviewed before using the selector charts on the following pages.

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

Each drawing in the chart schematically represents a corresponding Standard Mounting Arrangement erection drawing (ED) which is available as described earlier. The erection drawing (ED) number given with each arrangement is the number that should be used in ordering the required erection drawing (ED). The erection drawing (ED) number of the drawing supplied may be supplemented with the letter “R” followed by a digit. This indicates the most recent modification of construction details for that particular Standard Mounting Arrangement.
Double-Break Style

For Vertical Mounting on a Single-Pole—Wood or Steel

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type SM</td>
<td>Rotating</td>
<td><img src="image1.png" alt="Diagram" /></td>
</tr>
</tbody>
</table>

As shown
ED-301

For two switch poles on right
ED-302

Type SMD

Rotating

![Diagram](image2.png)

As shown
ED-381

*Refer to Specification Bulletin 771-31 for available voltage and current ratings.*
Double-Break Style—continued

For Vertical Mounting on Two Poles or Structure—Wood or Steel

<table>
<thead>
<tr>
<th>Type SM</th>
<th>Rotating</th>
<th>Reciprocating</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Diagram of Type SM Rotating]</td>
<td>![Diagram of Type SM Reciprocating]</td>
<td></td>
</tr>
<tr>
<td>As shown ED-305</td>
<td>As shown ED-313</td>
<td></td>
</tr>
<tr>
<td>For handle on left ED-306</td>
<td>For handle on left ED-314</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type SMD</th>
<th>Rotating</th>
<th>Reciprocating</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Diagram of Type SMD Rotating]</td>
<td>![Diagram of Type SMD Reciprocating]</td>
<td></td>
</tr>
<tr>
<td>As shown ED-383</td>
<td>As shown ED-387</td>
<td></td>
</tr>
<tr>
<td>For handle on left ED-384</td>
<td>For handle on left ED-388</td>
<td></td>
</tr>
</tbody>
</table>

● Refer to Specification Bulletin 771-31 for available voltage and current ratings.
## Vertical-Break Style

**For Vertical Mounting on a Single-Pole—Wood or Steel**

<table>
<thead>
<tr>
<th>Type</th>
<th>Rotating</th>
<th>Reciprocating</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type SM</strong></td>
<td>![Rotating SM](as shown)</td>
<td>![Reciprocating SM](as shown)</td>
</tr>
<tr>
<td><strong>Type SMD</strong></td>
<td>![Rotating SMD](as shown)</td>
<td>![Reciprocating SMD](as shown)</td>
</tr>
</tbody>
</table>

- As shown ED-317
- As shown ED-333
- As shown ED-365
- As shown ED-373

- Refer to Specification Bulletin 771-31 for available voltage and current ratings.
Vertical-Break Style—continued

For Vertical Mounting on Two Poles or Structure—Wood or Steel

<table>
<thead>
<tr>
<th>Type</th>
<th>Rotating</th>
<th>Reciprocating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type SM</td>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
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<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>ED-325</td>
<td>ED-341</td>
</tr>
<tr>
<td></td>
<td>For handle on left</td>
<td>For handle on left</td>
</tr>
<tr>
<td></td>
<td>ED-326</td>
<td>ED-342</td>
</tr>
<tr>
<td>Type SMD</td>
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<td>ED-369</td>
<td>ED-377</td>
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<td></td>
<td>For handle on left</td>
<td>For handle on left</td>
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<tr>
<td></td>
<td>ED-370</td>
<td>ED-378</td>
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</tbody>
</table>

● Refer to Specification Bulletin 771-31 for available voltage and current ratings.