The SF combinations are compact, easily installed switch-fuse combinations that protect substation or distribution circuits with an open-type fuse when an oil circuit recloser or breaker is removed from service. When used in conjunction with a conventional disconnect switch as diagramed below, the SF combination isolates the recloser or breaker quickly, safely, with a minimum amount of hardware, and without interrupting service.

Using components tested and proven in both laboratory and field, the SF combinations are dependable performers, with a long service life. Thousands of these units are in service over a wide geographic area and in all environments.

FIGURE 1 — SF-53 (23 kV, 600 Amps)

FIGURE 2

APPLICATION

The schematic wiring diagrams at right illustrate how the SF Series combination, when applied in conjunction with a hookstick operated disconnect, can isolate an oil circuit recloser and at the same time provide continuous fuse protection to the line.
Type SF

COMPONENTS

These combinations use the following components:

| SF 50 and 51 | "" | PBO hoekstick disconnect |
| SF 52 and 53 | "" | BP power fuse |
| SF 54 and 55 | "" | PBO hoekstick disconnect |
| SF 56 and 57 | "" | HPA power fuse |

CONSTRUCTION

These products are described in detail in their individual sections in your Southern States catalog, however, all have certain common features that make them outstanding performers. Among these are silver-to-silver contacts for long contact life, bronze and copper construction, crisscross copper switch blades, terminals hot dipped for use with both copper and aluminum conductors, positive latching for contact security on both switch and fuse, large operating eyes for operator convenience and safety, and positive stops on switch blades, fuse holders, and fuse contacts. In addition, the fuse components of the SF's 52 and 53 have reverse-loop, Amplitact® contacts on both upper and lower members for the maximum in contact security during high faults.

Mounted on a common base, these switch and fuse units are offset to provide electrical and mechanical clearances. This offset, virtually unique to Southern States switch-fuse equipment, prevents damage to the switch contacts during fuse operation, and in addition, greatly increases operator safety and convenience. The center insulator supports the hinge of the fuse and the jaw of the switch and connects them with a copper plate. Although the mounting components are completely reversible in the field, either left or right hand configurations can be specified upon ordering as shown below.

The standard base drillings are listed on page four; however, special drillings may be specified when ordering.

![Diagram of left and right hand units](image)

CAUTIONARY NOTE:

Since the lower end of the fuse tube will fill with water when open, it should be removed when not in service.
SF's Have Features Preferred By Linemen;
Endure Hard Usage In All Environments...

Nema Standard terminal pads
Tinned for use with either copper
or aluminum conductors.
Positive latch. Fuse holder
cannot vibrate open.
Large operating eye for
operator convenience and
safety.
Silver-to-silver contacts
on both jaw and hinge.
Positive latch. Blade cannot
vibrate open.
Snubber brings fuse holder to
a cushioned stop. Prevents
damage to hardware.
Copper plate ties fuse and
switch together.
Sturdy blade construction re-
sists side thrusts. Closes in
precise alignment.
Galvanized steel channel base.
Heavy bronze and copper
construction on both jaw
and hinge.
90° blade open stops standard.
Easily changed in the field to
135° or 180° open.

Terminal connectors can be
supplied as options. Refer
to the factory.

Mounting parts are inter-
changeable. Units may be
easily reversed in the field
should the need arise.
For further information on these products refer to Southern States catalog bulletins 900 and 901.