

Southern States, Inc.

SF Series

SWITCH-FUSE COMBINATIONS
14.4 – 23 kV 100, 200, 300, 400 AMPS
INTERRUPTING CAPACITIES
TO 12,500 RMS AMPS ASYM.

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.

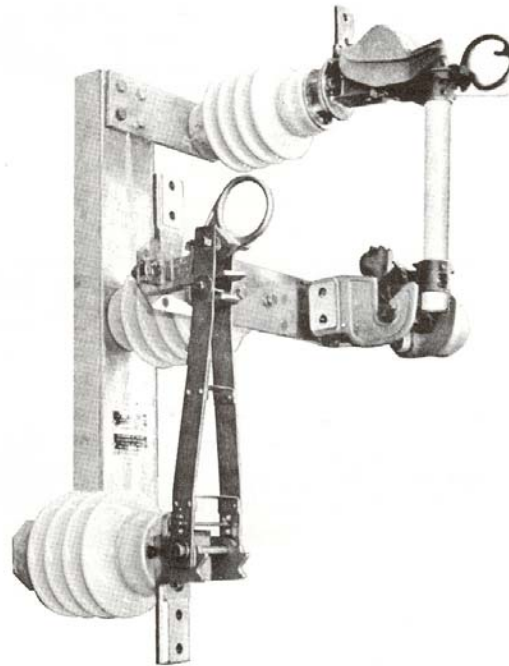
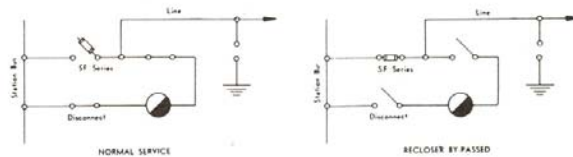


FIGURE 1 – SF-53 (23 kV, 600 Amps)

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 hookstick disconnect BP power fuse
SF 52 and 53	-	"	"	PBO hookstick disconnect HPA power fuse

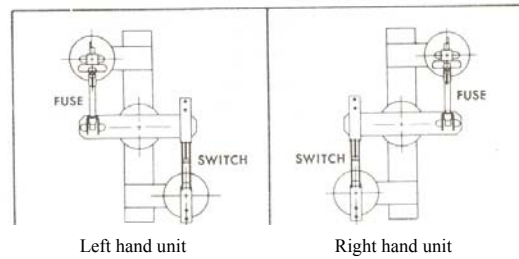
CONSTRUCTION

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, trussed copper switch blades, terminals hot dip tinned 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.

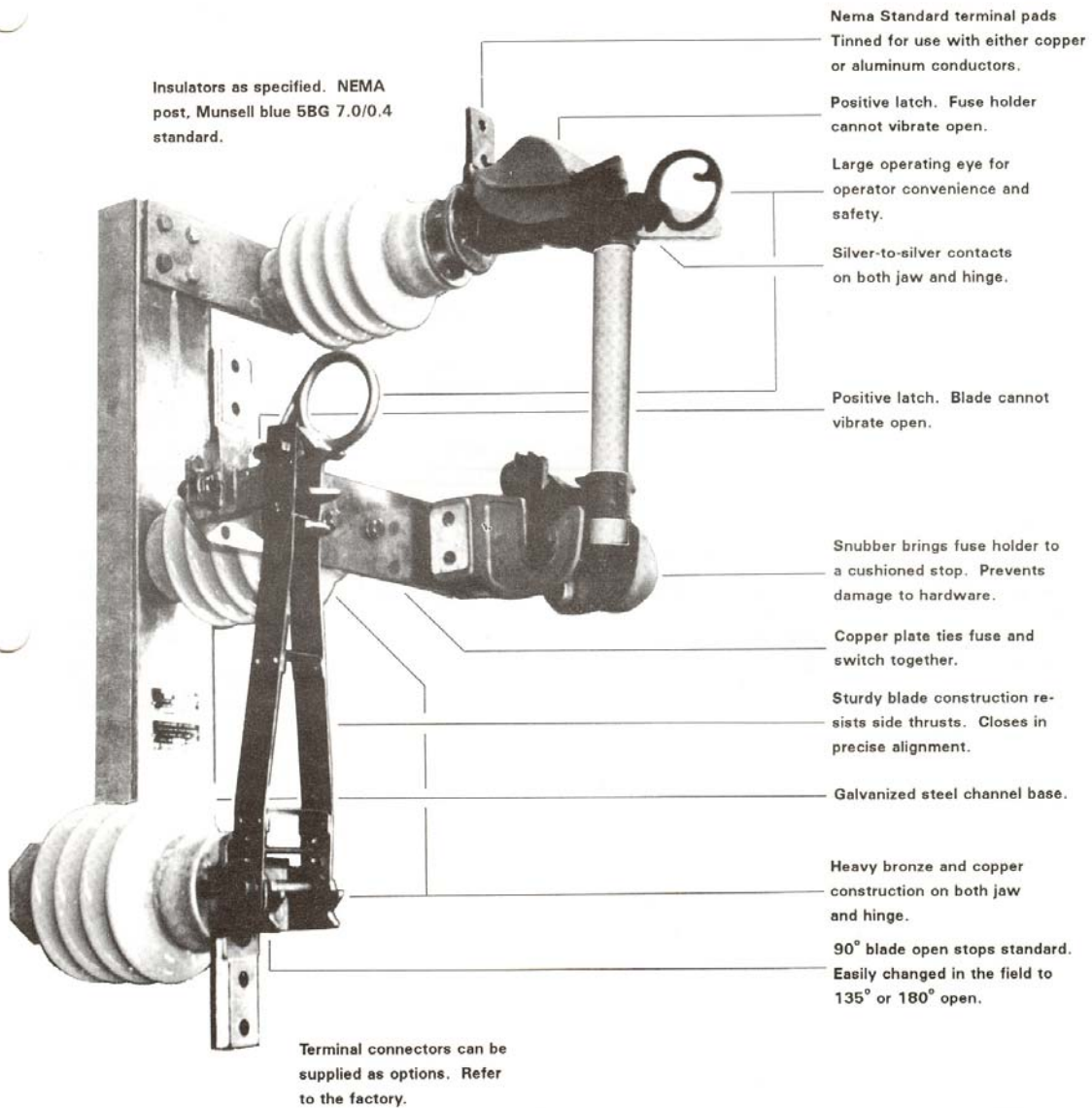
The standard base drillings are listed on page four; however, special drillings may be specified when ordering.



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. . .

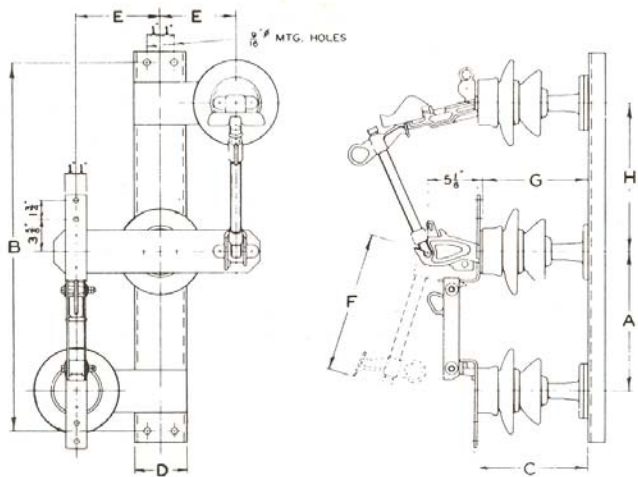


Mounting parts are interchangeable. Units may be easily reversed in the field should the need arise.

Type SF

VOLTAGE RATING kV		BIL kV	CONT. CURRENT AMPS		INT. CAP RMS AMPS ASYMMETRICAL	CATALOG NUMBERS		APPROX. NET WEIGHTS (POST INSULATORS)	
NOM.	MAX.		SWITCH	FUSE		LEFT HAND	RIGHT HAND	LB.	KG.
TYPES SF-50, SF-51 (PBO & BP)									
14.4	15.5	110	600	100	12,500	SF501516	SF511516	120	55
14.4	15.5	110	600	200	12,500	SF501526	SF511526	120	55
23	25.8	150	600	100	10,000	SF502316	SF512316	162	74
23	25.8	150	600	200	10,000	SF502326	SF512326	162	74
TYPES SF-52, SF-53 (PBO & HPA)									
14.4	15.5	110	600	100	12,500	SF521516	SF531516	164	75
14.4	15.5	110	600	200	12,500	SF521526	SF531526	164	75
14.4	15.5	110	600	300	12,500	SF521536	SF531536	164	75
14.4	15.5	110	600	400	12,500	SF521546	SF531546	164	75
23	25.8	150	600	100	12,500	SF522316	SF532316	196	89
23	25.8	150	600	200	12,500	SF522326	SF532326	196	89
23	25.8	150	600	300	12,500	SF522336	SF532336	196	89
23	25.8	150	600	400	12,500	SF522346	SF532346	196	89

TYPE	KV	DIMENSIONS (POST INSULATORS)															
		A		B		C		D		E		F		G		H	
		IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM
SF-50, SF-51	14.4	15	382	36	915	10-13/16	275	5	128	8	204	16-3/4	426	10	255	15	382
SF-50, SF-51	23	18	458	42	1067	14-7/8	378	5	128	10	254	19-3/4	502	14	356	18	458
SF-52, SF-53	14.4	15	382	36	915	10-7/8	277	5	128	8	209	19	483	10	255	15	382
SF-52, SF-53	23	18	458	42	1067	15	381	5	128	10	254	22	569	14	356	18	458



For further information on these products refer to Southern States catalog bulletins 900 and 901.