

A photograph of a wooden utility pole with cross-arms and electrical equipment. The pole is supported by metal brackets. Several white ceramic insulators are visible, along with metal hardware and cables. The background is a clear blue sky. In the top left corner, there is a white rectangular box containing the Siemens logo and slogan. In the bottom right, there is a teal rectangular box containing the product name and type. At the very bottom, there is a white rectangular box containing a website URL.

**SIEMENS**

*Ingenuity for life*

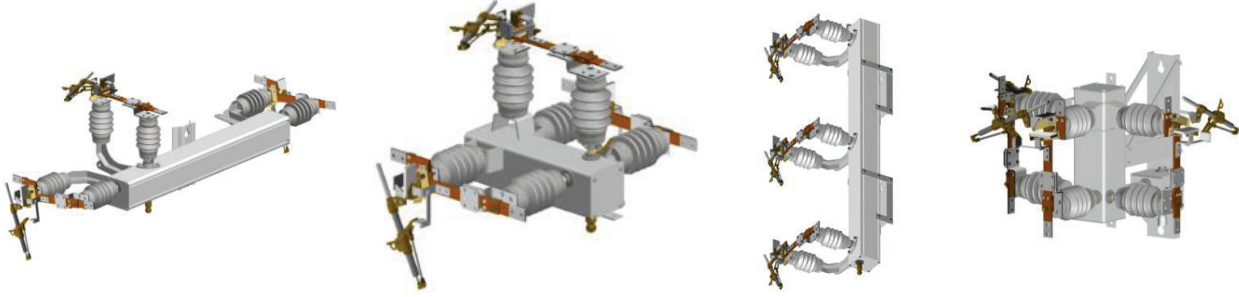
Topper<sup>®</sup> series

Group-operated switches

[usa.siemens.com/disconnectswitches](http://usa.siemens.com/disconnectswitches)



# Topper



# Overview

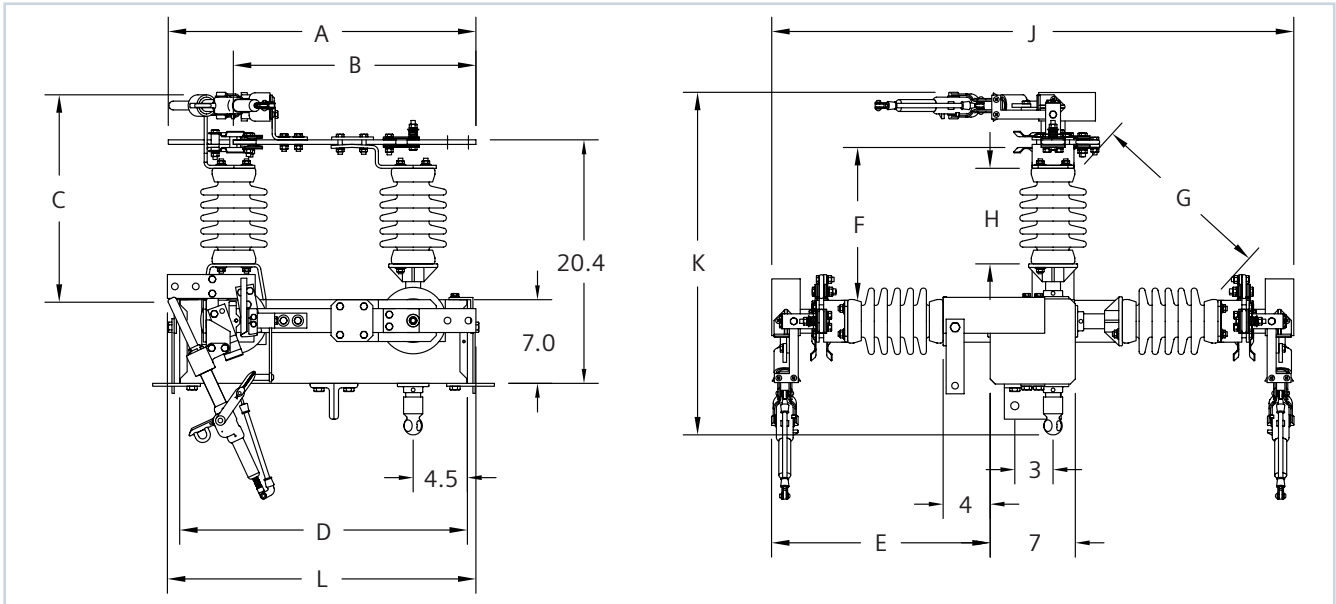


The Topper series of switches takes its name from the original Topper switch, a pole top-only design of unequalled compactness, ease of installation and unique synchronized operation. The same proven hot parts are used on all Topper styles. The Topper series is conservatively rated and has superior fault close, three-second, continuous and loadbreak ratings.

The Topper series is available in ratings of 15 through 38 kV, 110 through 200 kV BIL, 900 and 1,200 A. The three-phase switch unit consisting of the large square galvanized steel or extruded aluminum housing, the operating mechanism contained within the housing and the three single-pole switch units, which utilize a common base, is completely pre-assembled and factory adjusted so that no field adjustment of the switch is required other than the final assembly of the vertical operating shaft and the operating handle. The square shaped housing is enclosed, with covers at both ends, and "O" rings at all journal bearings, so that the three-phase operating mechanism of the switch is better protected from exposure to weather. The horizontal break switch is available with 600 A and 900 A Saf-T-Gap or 1,200 A vacuum interrupters in all ratings. Both the vacuum interrupters and the Saf-T-Gap have a special plug-in feature that allows the unit to be installed or removed with a standard shotgun stick. This can be accomplished if the switch is open or closed, energized or dead. The switch is available with 3" D.B.C. NEMA substation-class insulators or 2 1/4" D.B.C. distribution-class insulators. The switch base has provisions for dead-ending all three phases on certain models.



# Topper



Catalog number	Nom kV	kV BIL	Dimensions - inches											
			A	B	C	D	E	F <sup>1</sup>	G <sup>2</sup>	H	J	K	L	Insulator <sup>3</sup>
1272-30	15	110	25.7	15	17.4	24	18.3	10.7	15.5	8	43.7	28.7	25.8	2 1/4" D.B.C.
1273-30	25	150	28.7	18	19.4	27	20.3	12.7	18.3	10	47.7	30.7	25.8	2 1/4" D.B.C.
1292-30	15	110	25.7	15	19.4	24	20.3	14.6	16.9	10	47.7	30.7	25.8	3" D.B.C. NEMA
1293-30	25	150	28.7	18	23.4	27	24.3	18.5	22.5	14	55.7	30.7	25.8	3" D.B.C. NEMA
1294-30	38	200	36.6	24	31.2	34	32.1	22.4	30.8	18	71.2	42.5	34.7	3" D.B.C. NEMA

1. Minimum metal-to-metal, switch open
2. Minimum metal-to-metal, switch closed
3. 2 1/4" D.B.C. polymer insulators are optional (i.e., 1262-30)  
3" D.B.C. polymer insulators are optional (i.e., 1282-30)

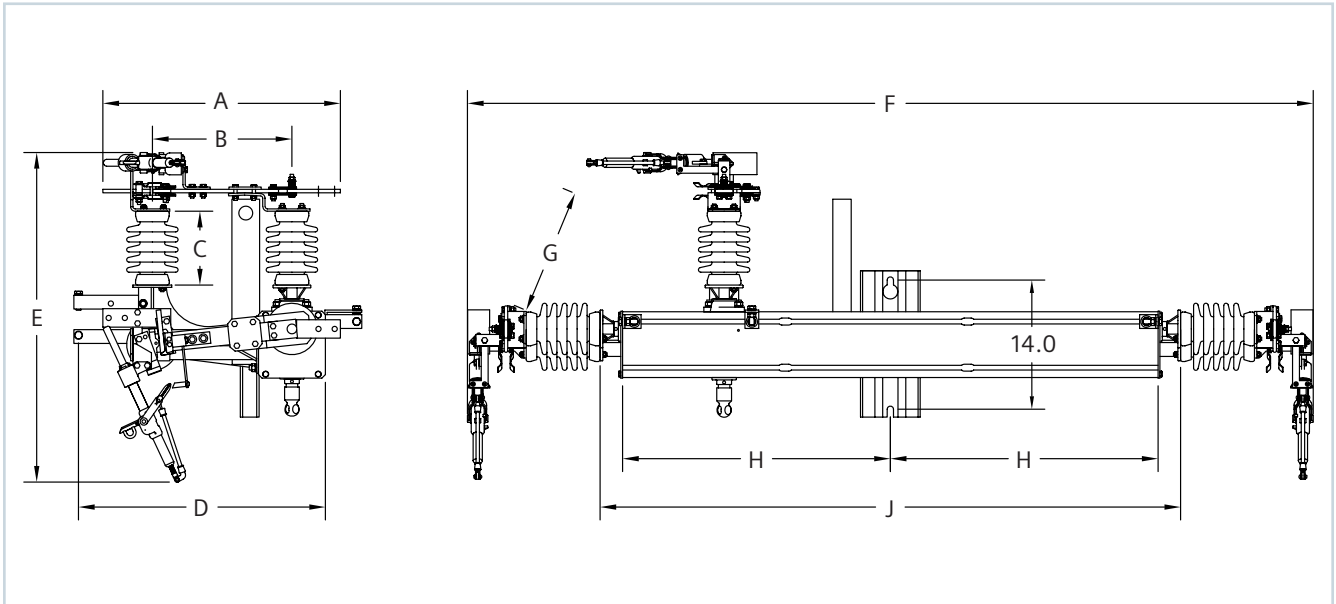
## Standard features:

- Plug-in Saf-T-Gap interrupters
- Pole-top mounting
- Copper-bronze hot parts
- 30' of operating shaft
- Torsional operating mechanism
- Tinned terminal pads
- 900 A continuous current
- 900 A interrupting (38 kV is 600 A interrupting)
- 40,000 A momentary current
- 25,000 A 3-second
- Fault close two times 20,000 A symmetrical.

## Options:

- Center phase (only) arrester brackets (i.e., 1272-30 A)
- Extra length of pipe (i.e., 1272-40)
- Porcelain operating shaft insulator (i.e., 1272-31)
- Polymer operating shaft insulator (i.e., 1272-35).

# Crossarm Topper



Catalog number	Nom kV	kV BIL	Dimensions - inches									
			A	B	C	D	E	F <sup>1</sup>	G <sup>2</sup>	H	J	Insulator <sup>3</sup>
1272X-30	15	110	25.7	15	8	25.8	35.7	91.6	13.9	29	62.9	2 1/4" D.B.C.
1273X-30	25	150	28.7	18	10	28.8	37.7	95.5	15.4	29	62.9	2 1/4" D.B.C.
1292X-30	15	110	25.7	15	10	25.8	37.7	95.5	15.8	29	62.9	3" D.B.C. NEMA
1293X-30	25	150	28.7	18	14	28.8	41.9	103.5	19.8	29	62.9	3" D.B.C. NEMA
1294X-30	38	200	34.8	24	18	36.6	56.1	127.1	23.3	33	70.9	3" D.B.C. NEMA

1. Minimum metal-to-metal, switch open
2. Minimum metal-to-metal, switch closed
3. 2 1/4" D.B.C. polymer insulators are optional (i.e., 1262X-30)  
3" D.B.C. polymer insulators are optional (i.e., 1282X-30)

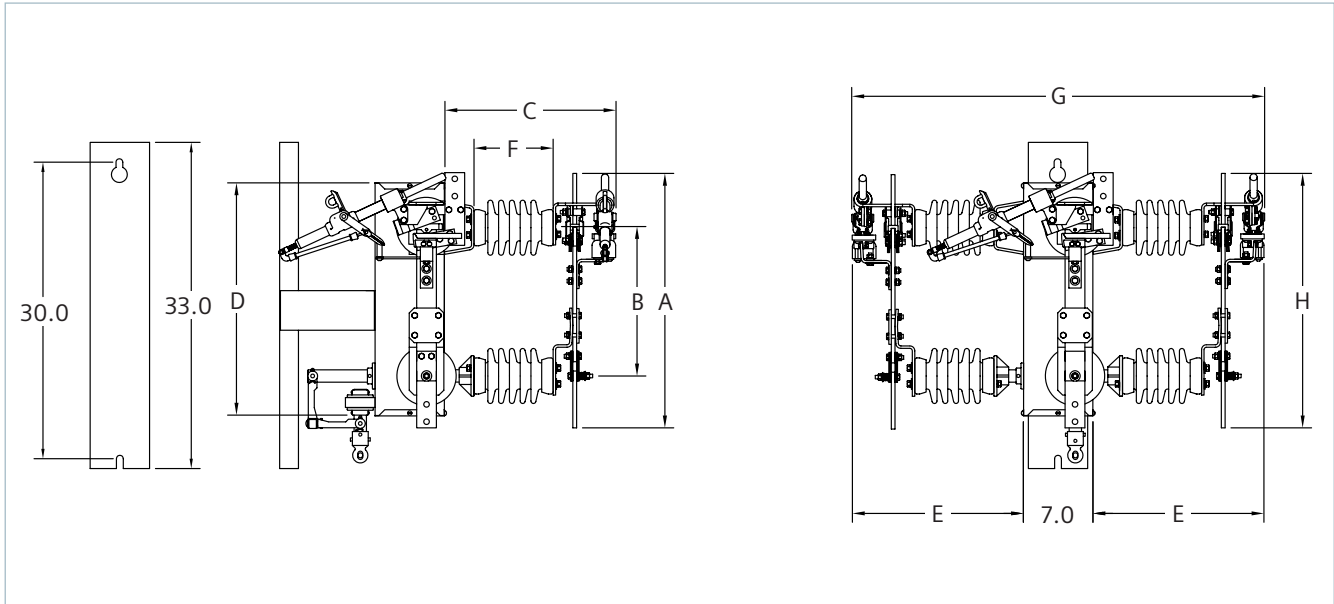
## Standard features:

- Plug-in Saf-T-Gap interrupters
- Pole-top or underbuild mounting
- Copper-bronze hot parts
- 30' of operating shaft
- Torsional operating mechanism
- Lift bracket (removable)
- Tinned terminal pads
- 900 A continuous current
- 900 A interrupting (38 kV is 600 A interrupting)
- 40,000 A momentary current
- 25,000 A 3-second
- Fault close two times 20,000 A symmetrical.

## Options:

- Arrester brackets (i.e., 1272X-30A)
- Extra length of pipe (i.e., 1272X-40)
- Porcelain operating shaft insulator (i.e., 1272X-31)
- Polymer operating shaft insulator (i.e., 1272X-35).

# Vertical Topper



Catalog number	Nom kV	kV BIL	Dimensions - inches								Insulator <sup>1</sup>
			A	B	C	D	E	F	G	H	
1272V-30	15	110	25.7	15	17.4	24	17.3	8	41.6	25.8	2 1/4" D.B.C.
1273V-30	25	150	28.7	18	19.4	27	19.3	10	45.6	28.8	2 1/4" D.B.C.
1292V-30	15	110	25.7	15	19.4	24	19.3	10	45.6	25.8	3" D.B.C. NEMA
1293V-30	25	150	28.7	18	23.4	27	23.3	14	53.6	28.8	3" D.B.C. NEMA
1294V-30	38	200	36.6	24	31.2	34	32.1	18	34.7	34.7	3" D.B.C. NEMA

1. 2 1/4" D.B.C. polymer insulators are optional (i.e., 1262V-30)  
 3" D.B.C. polymer insulators are optional (i.e., 1282V-30)

\* For minimum metal-to-metal distances, see Topper spec. sheet

## Standard features:

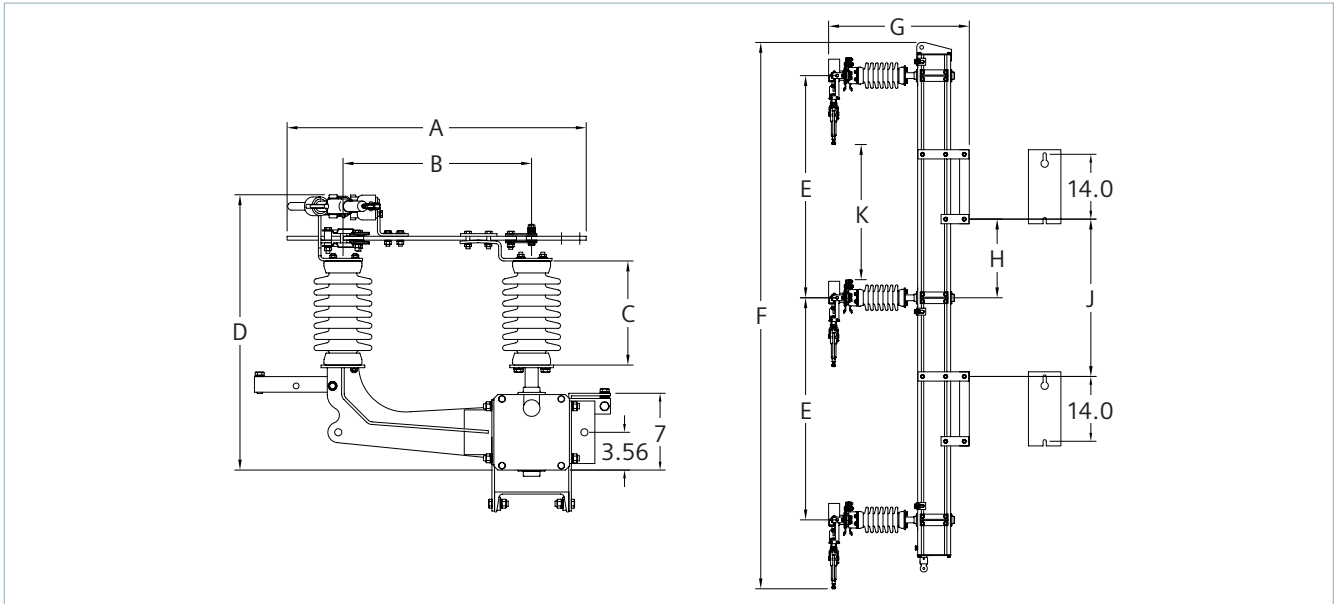
- Plug-in Saf-T-Gap interrupters
- For riser pole or tie switch
- Copper-bronze hot parts
- 30' of operating shaft
- Torsional operating mechanism
- Tinned terminal pads
- 900 A continuous current
- 900 A interrupting (38 kV is 600 A interrupting)
- 40,000 A momentary current
- 25,000 A three-second
- Fault close two times 20,000 A symmetrical.

## Options:

- Arrester brackets (i.e., 1272V-30 A)
- Extra length of pipe (i.e., 1272V-40)
- Porcelain operating shaft insulator (i.e., 1272V-31)
- Polymer operating shaft insulator (i.e., 1272V-35).



# Phase-over-phase Topper



Catalog number	Nom kV	kV BIL	Dimensions - inches										
			A	B	C	D	E	F	G	H	J	K <sup>1</sup>	Insulator <sup>2</sup>
1272P-30	15	110	25.7	15	8	17.4	36	94.2	28.3	12	24	16.7	2 1/4" D.B.C.
1273P-30	25	150	28.7	18	10	19.4	48	118.2	30.3	17	34	28.7	2 1/4" D.B.C.
1292P-30	15	110	25.7	15	10	19.4	36	94.2	30.3	12	24	16.7	3" D.B.C. NEMA
1293P-30	25	150	28.7	18	14	23.4	48	118.2	34.3	17	34	28.7	3" D.B.C. NEMA
1294P-30	38	200	36.6	24	18	31.2	48	124.6	41.8	17	34	19.7	3" D.B.C. NEMA

1. Minimum metal-to-metal, switch open
2. Optional 2 1/4" D.B.C. polymer insulators (i.e., 1262P-30)  
Optional 3" D.B.C. polymer insulators (i.e., 1282P-30)

## Standard features:

- Plug-in Saf-T-Gap interrupters
- Phase-over-phase mounting
- Copper-bronze hot parts
- 30' of operating shaft
- Torsional operating mechanism
- Lift bracket
- Tinned terminal pads
- 900 A continuous current
- 900 A interrupting (38 kV is 600 A interrupting)
- 40,000 A momentary current
- 25,000 A 3-second
- Fault close two times 20,000 A symmetrical.

## Options:

- Arrester brackets (i.e., 1272P-30A)
- Extra length of pipe (i.e., 1272P-40)
- Porcelain operating shaft insulator (i.e., 1272P-31)
- Polymer operating shaft insulator (i.e., 1272P-35).

# Topper numbering system

		Position:    1   2   3   4*    A   B   C*
		Order No.: 1 □ □ □ □ - □ □ □
Prefix	<b>Family type:</b> 1	
1st position	<b>Continuous current rating:</b> 2= 900 A continuous current 900 A loadbreak (38 kV versions are 600 A loadbreak) 6= 1,200 A continuous current 900 A loadbreak (38 kV versions are 600 A loadbreak) 8= 1,200 A continuous current 1,200 A loadbreak (vacuum bottle interrupter)	
2nd position	<b>Insulator:</b> 6= 2 1/4" D.B.C. polymer insulators (cannot be combined with 1,200 A ratings above) 7= 2 1/4" D.B.C. porcelain insulators (cannot be combined with 1,200 A ratings above) 8= 3" D.B.C. polymer insulators 9= 3" D.B.C. porcelain insulators	
3rd position	<b>Voltage class:</b> 2= 15 kV, 110 kV BIL 3= 25 kV, 150 kV BIL 4= 38 kV, 200 kV BIL (cannot be combined with 2 1/4" insulator options)	
4th position	<b>Mounting style (no letter indicates symmetrical pole-top style*):</b> X= Horizontal crossarm style P= Phase-over-phase style V= Vertical (cable riser style) (HOG operated switch only available in 25/38 kV) H= Upright horizontal style	

## Options available after dash

Position A	<b>Operating method:</b> 3= 30' of operating pipe (3@10') 4= 40' of operating pipe (4@10') 5= 50' of operating pipe (5@10') H= Hookstick operated gang switch (HOG) <sup>1</sup>
Position B	<b>Operating shaft insulator:</b> 0= No operating shaft insulator 1= Porcelain operating shaft insulator 5= Polymer operating shaft insulator
Position C	<b>Optional accessories (multiple accessories can be selected and should be placed in alphabetical order*):</b>  <b>Choose one:</b> A= Lightning arrester mounting bracket (GALV) A2= Extended lightning arrester mounting bracket (GALV) A4= Extended lightning arrester mounting bracket (F/G)  <b>Choose additional options:</b> C= Convertible to motorized D= Dead-end provisions E= Extended base length F= Fiberglass operating pipe section (not compatible with HOG) K= Six cable connectors (wire size range #6-397.5 MCM ACSR, #4-500 MCM copper) L= Three 16" extension links M= Marine grade N= No load interruption R= Crossarm brace

### Topper configuration examples:

Example A:	1	2	7	2	X	-	3	0	E	
Example B:	1	2	9	4	P	-	5	5	A	K
Example C:	1	2	8	3	V	-	H			

<sup>1</sup> If HOG switch is selected, position B does not apply; proceed to position C.



# Features and options

## Topper ratings:

- 900 A continuous current
- 900 A loadbreak (600 A at 38 kV)
- 40,000 A momentary current
- 25,000 A three-second current
- 20,000 A two-time symmetrical fault close in.

## Standard features:

- Silver-to-silver hinge and jaw contacts
- Provisions for dead-ending on switch supplied as standard but optional on phase-over-phase
- Enclosed balanced bearing operating mechanism
- Three 10' pipe sections, handle and locking assembly and necessary couplings and guides.
- Single-point lift bracket - remove after installation (permanent installation on phase-over-phase)
- All components packaged in one crate
- Plug-in Saf-T-Gap interrupters
- Copper-bronze hot parts
- Tinned terminal pads.



The Topper series switches can be customized to fit substation structures. The switches are designed to be installed in existing or new substations. The Topper is a fully factory adjusted, unitized switch which reduces installation time and costs.





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