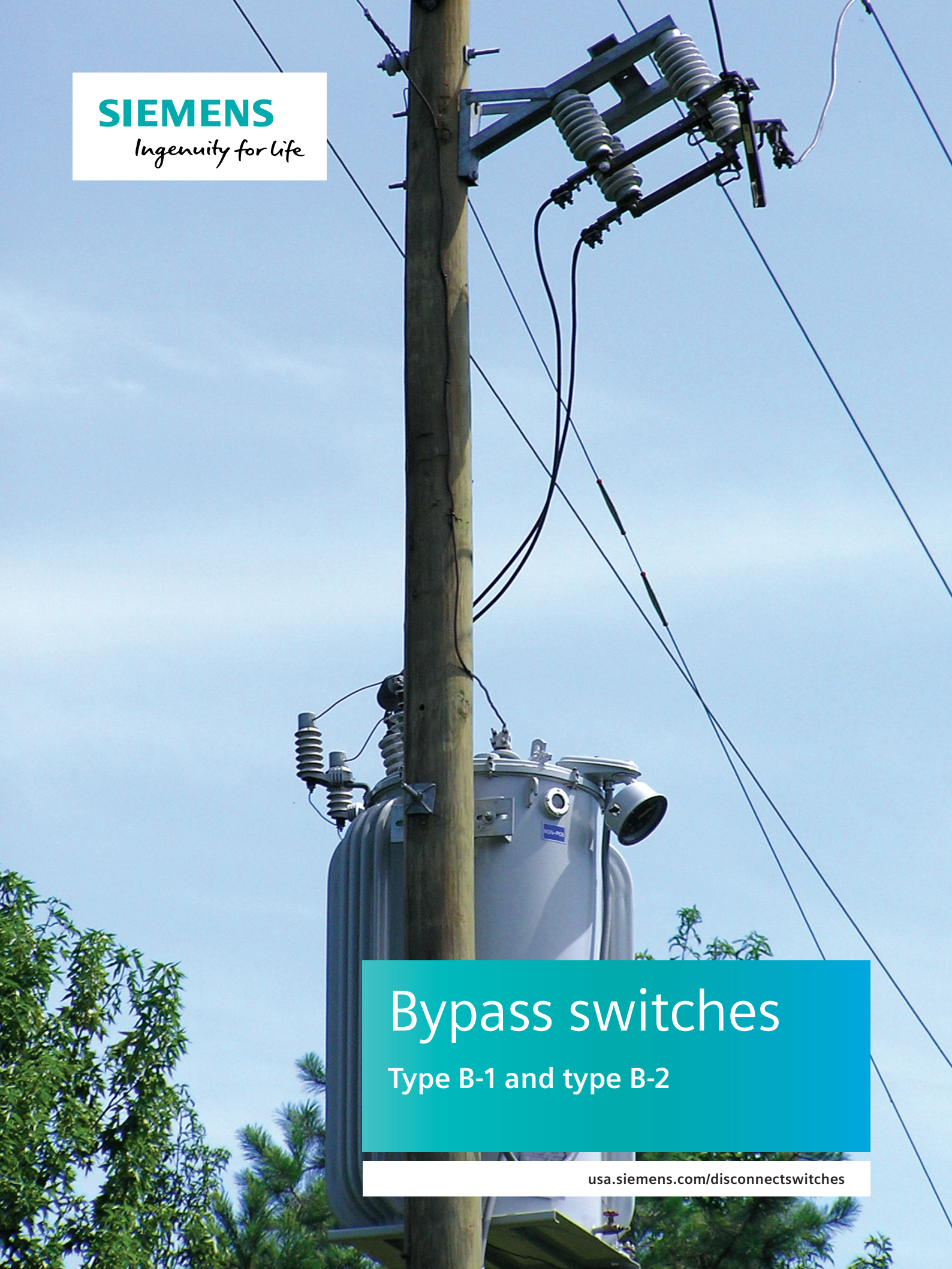


The background of the entire page is a photograph of a wooden utility pole. At the top of the pole, there is a complex assembly of metal hardware, including cross-arms and insulators, with several power lines extending from it. Below this, on the side of the pole, is a large, cylindrical, light-colored metal bypass switch. The switch has a circular access panel and a small label. The sky is a clear, pale blue, and some green foliage is visible at the bottom left and bottom right corners.

SIEMENS

Ingenuity for life

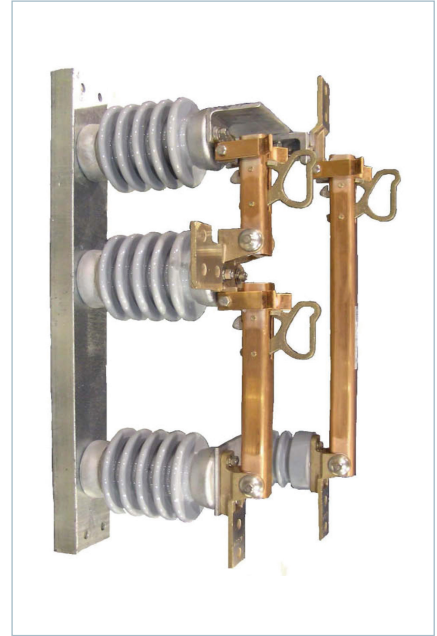
Bypass switches

Type B-1 and type B-2

usa.siemens.com/disconnectswitches

Type B-1 and B-2

Overview



Eliminate certain voltage regulator bypass switch problems

Type B-1

The type B-1 regulator bypass switch is a simple and rugged three-bladed disconnect switch. Each blade is independently operated and is readily visible to the operator. The major safety feature of the type B-1 is that the bypass blade can be visually checked to ensure that it is open. This helps eliminate the possibility of the regulator being shortcircuited when it is restored to service. Many available options and accessories make the type B-1 a flexible solution for regulator bypass schemes.

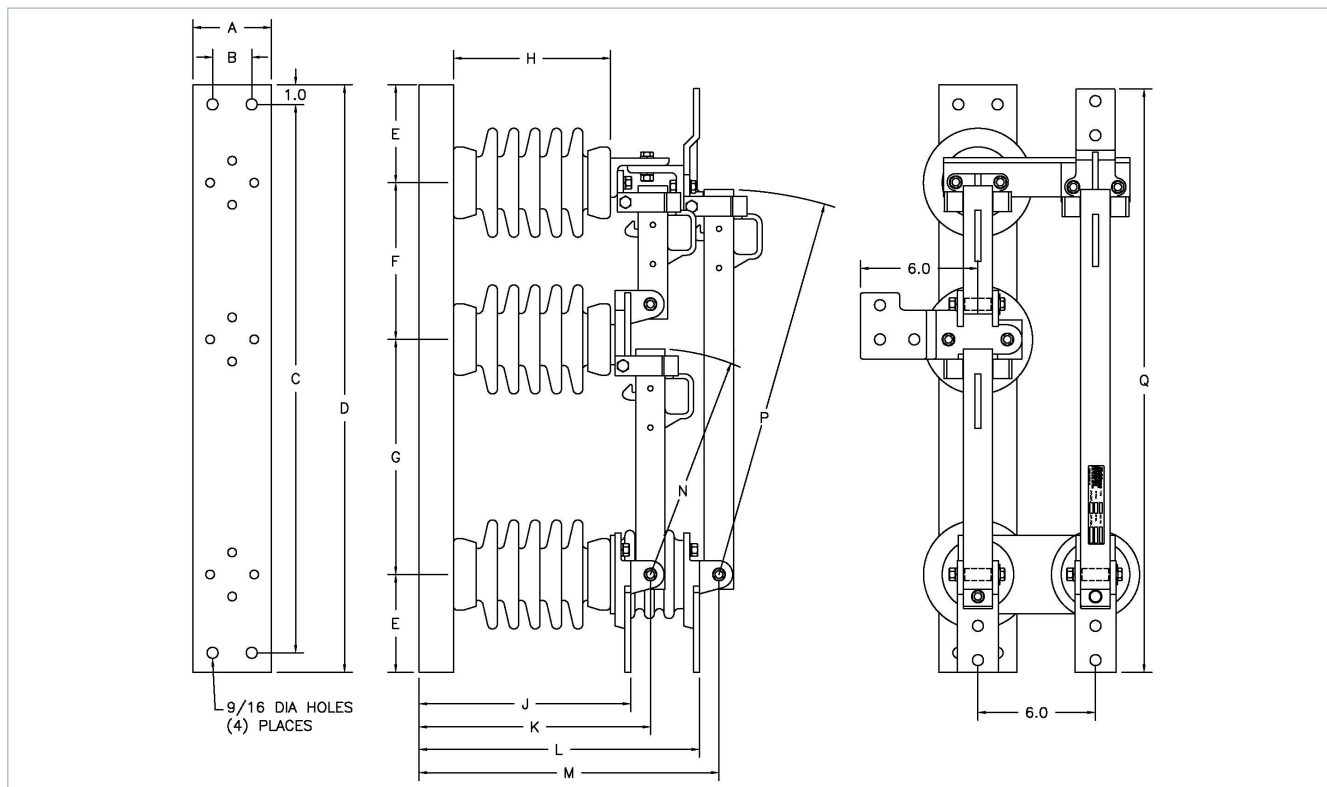
Type B-2

The type B-2 oil circuit recloser (O.C.R.) (or regulator) bypass switch utilizes the same blade and contact material as the type B-1. Its design provides clearance for an O.C.R. bypass scheme, but can be used as a regulator bypass. Versatility is provided with optional backplate sets for underhung mounting or an angled pole bracket for mounting directly to the pole. Many available options and accessories make the type B-2 a flexible solution for O.C.R. and regulator bypass schemes.



Details

Type B-1 regulator bypass: 600 A



Cat. no.	Rating data					Dimensions - inches															Insulators
	NOM kV	MAX kV	kV BIL	Amps																	
				Cont.	Mom.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	
610	14.4	15	110	600	40,000	4	2	28	30	5	8	12	8	10.8	11.8	14.3	15.3	11.5	19.7	29.7	2 1/4" D.B.C.
710	23	25	150	600	40,000	4	2	31	33	5	10	15	10	12.8	13.8	16.3	17.3	14.5	22.7	32.7	
615	14.4	15	110	600	40,000	4	2	31	33	5	10	15	10	12.8	13.8	16.3	17.3	14.5	22.7	32.7	3" D.B.C.
715	23	25	150	600	40,000	4	2	34	36	5	14	18	14	16.8	17.8	20.3	21.3	17.5	25.7	35.7	
815	34.5	38	200	600	40,000	6	2	40	42	5	18	24	18	20.8	21.8	20.3	21.3	23.5	31.7	41.7	

Note: Add suffixes below to catalog numbers for the option described:

C = Polymer insulator

H = Loadbreak hooks

K = Cable connector

#6 - 397.5 MCM ACSR

#6 - 500 MCM copper

P = Pole mount bracket

QB = Quick break

T = Tinned terminal pads

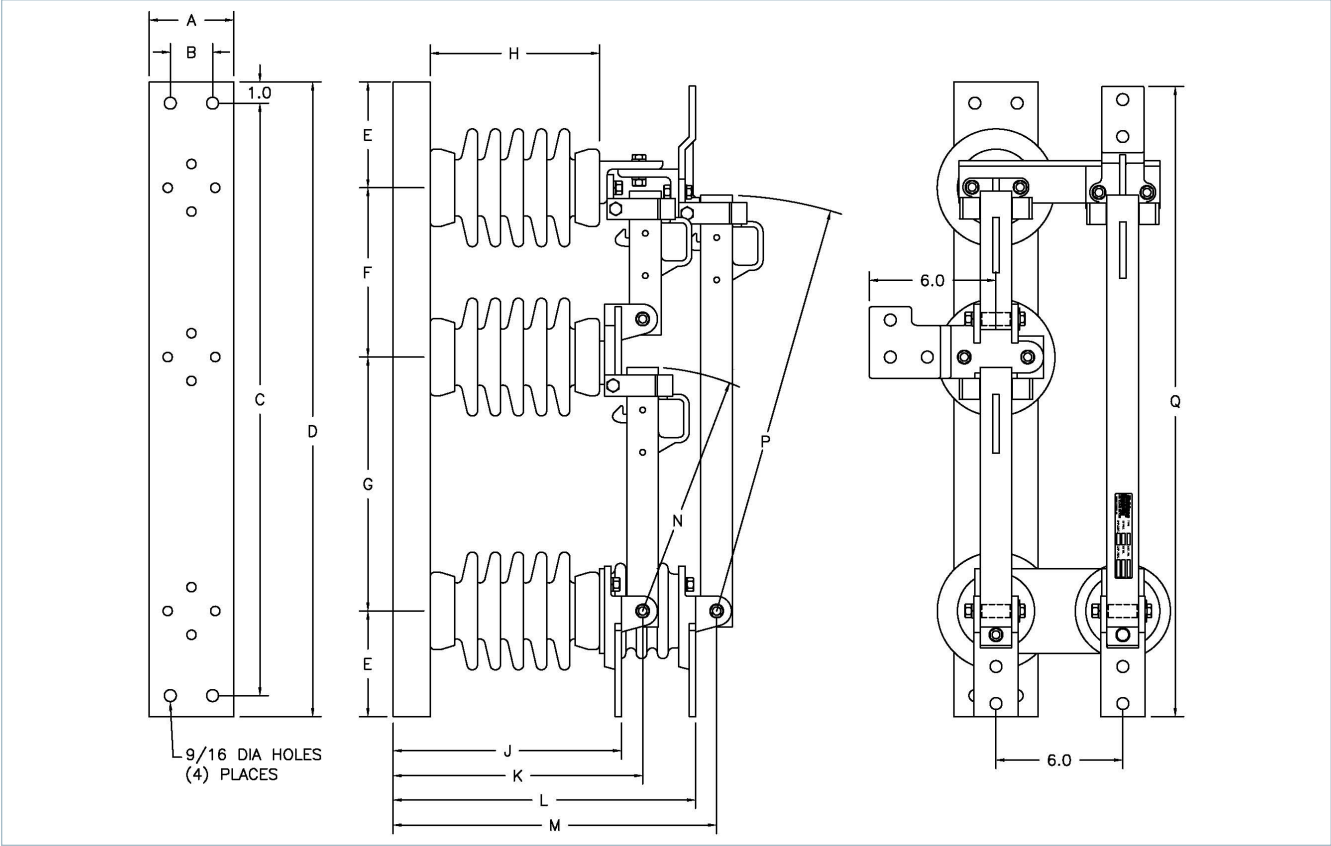
X = Backplate set

Example:

"610CQBT = type B-1, 15 kV, 110 kV BIL, 600 A, polymer insulators, quick break, tinned terminal pads"

Details

Type B-1 regulator bypass: 900 A



Cat. no.	Rating data					Dimensions - inches															Insulators
	NOM kV	MAX kV	kV BIL	Amps																	
				Cont.	Mom.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	
630	14.4	15	110	900	40,000	4	2	28	30	5	8	12	8	10.8	11.8	14.3	15.3	11.5	19.7	29.7	2 1/4" D.B.C.
730	23	25	150	900	40,000	4	2	31	33	5	10	15	10	12.8	13.8	16.3	17.3	14.5	22.7	32.7	
635	14.4	15	110	900	40,000	4	2	31	33	5	10	15	10	12.8	13.8	16.3	17.3	14.5	22.7	32.7	3" D.B.C.
735	23	25	150	900	40,000	4	2	34	36	5	14	18	14	16.8	17.8	20.3	21.3	17.5	25.7	35.7	
835	34.5	38	200	900	40,000	6	2	40	42	5	18	24	18	20.8	21.8	20.3	21.3	23.5	31.7	41.7	

Note: Add suffixes below to catalog numbers for the option described:

C = Polymer insulator

H = Loadbreak hooks

K = Cable connector

#6 - 397.5 MCM ACSR

#6 - 500 MCM copper

P = Pole mount bracket

QB = Quick break

T = Tinned terminal pads

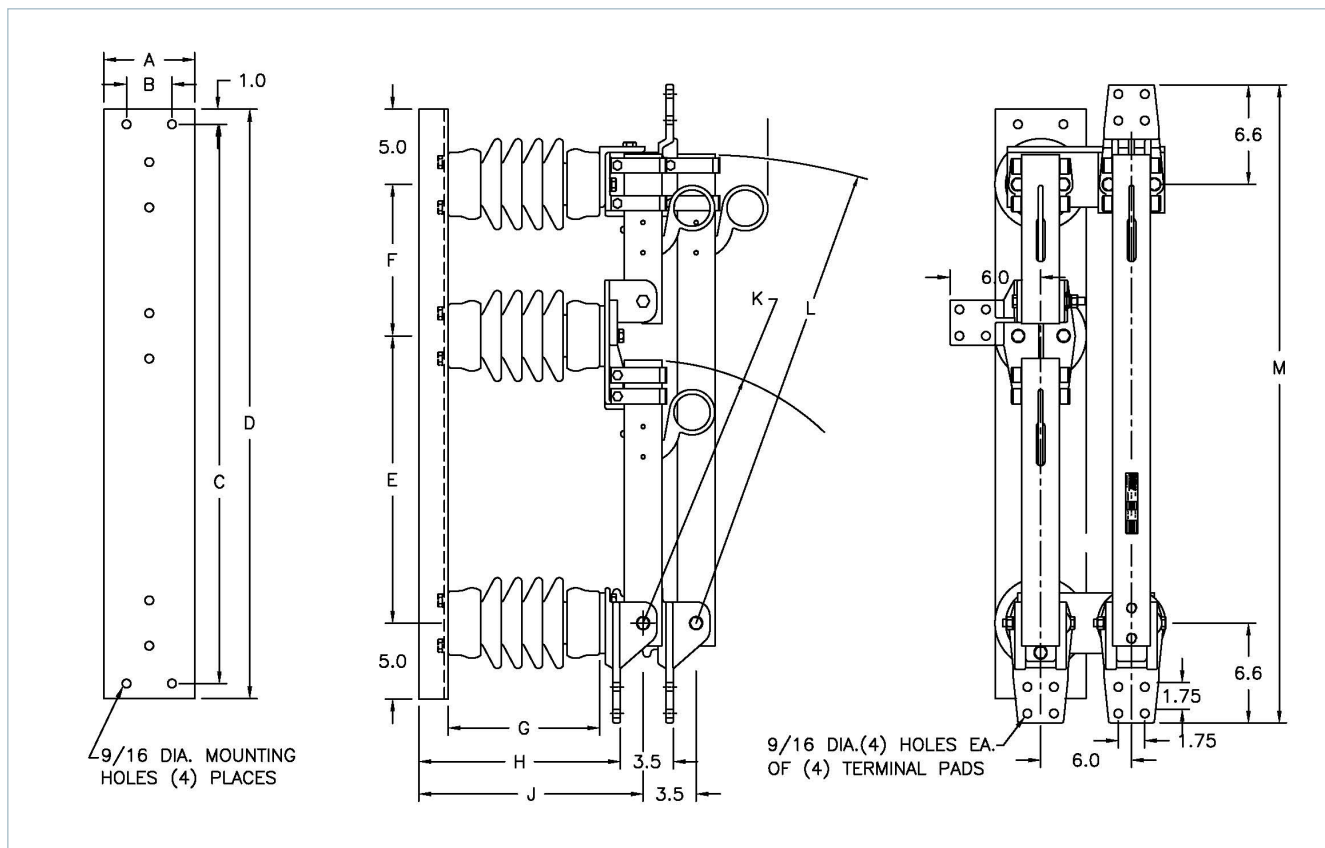
X = Backplate set

Example:

"630CQBT = Type B-1, 15 kV, 110 kV BIL, 900 A, polymer insulators, quick break, tinned terminal pads"

Details

Type B-1 regulator bypass: 1,200 A



Cat. no.	Rating data					Dimensions - inches												Insulators
	NOM kV	MAX kV	kV BIL	Amps														
				Cont.	Mom.	A	B	C	D	E	F	G	H	J	K	L	M	
625	14.4	15	110	1,200	61,000	6	3	37	39	19	10	10	13.3	14.8	17.4	31	41	3" D.B.C.
725	23	25	150	1,200	61,000	6	3	40	42	22	10	14	17.3	18.8	20.4	34	44	
825	34.5	38	200	1,200	61,000	6	3	46	48	28	10	18	21.3	22.8	26.4	40	50	

Note: Add suffixes below to catalog numbers for the option described:

C = Polymer insulator

P = Pole mount bracket

QB = Quick break

T = Tinned terminal pads

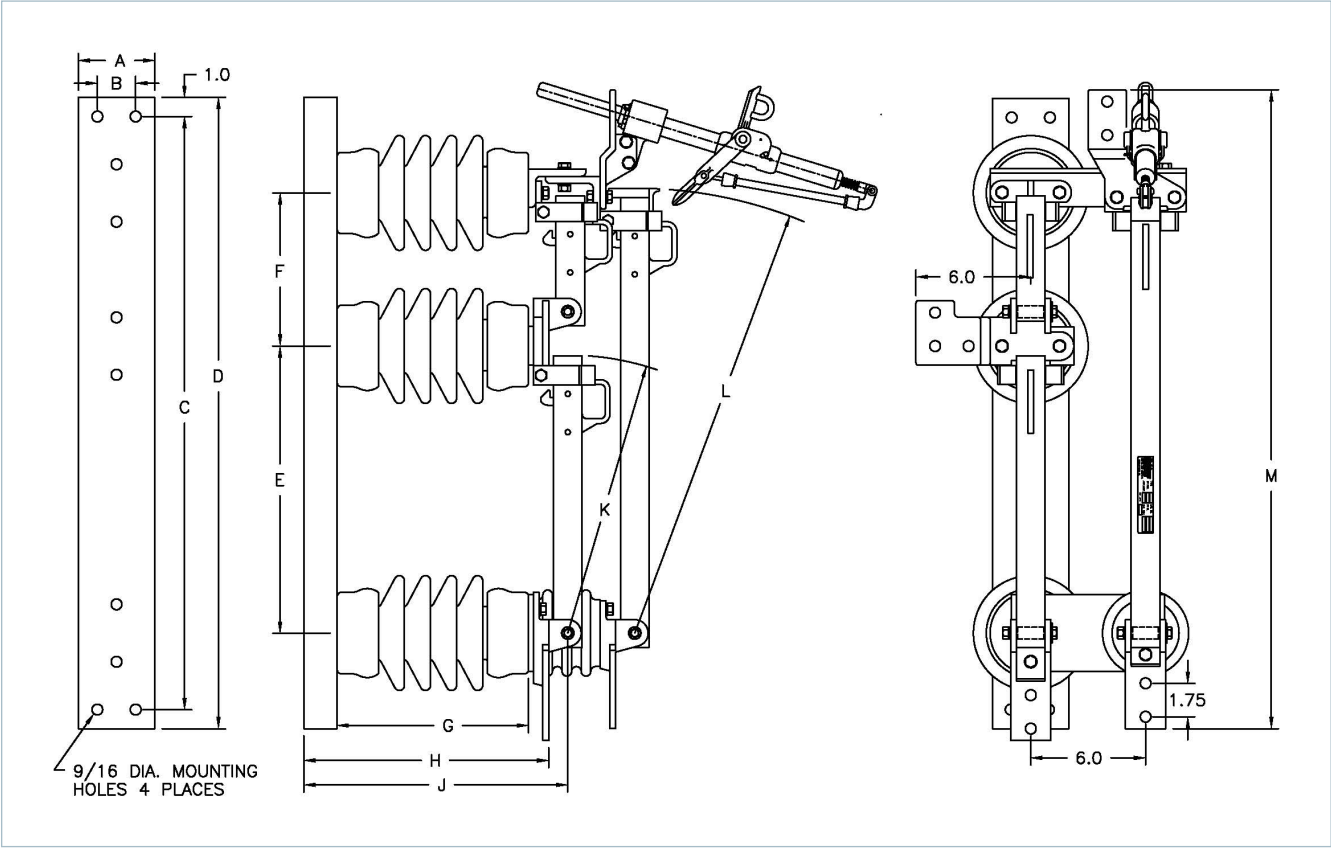
X = Backplate set

Example:

"625CQBT = Type B-1, 15 kV, 110 kV BIL, 1,200 A, polymer insulators, quick break, tinned terminal pads"

Details

Type B-1 regulator bypass: 600 A with Saf-T-Gap interrupter (600 A loadbreak)



	Rating data																		Insulators
Cat. no.	NOM kV	MAX kV	kV BIL	Amps		Dimensions - inches													
				Cont.	Mom.	A	B	C	D	E	F	G	H	J	K	L	M		
675	14.4	15	110	600	40,000	4	2	31	33	15	8	10	13.8	16.3	14.5	23.25	33.4		
775	23	25	150	600	40,000	4	2	34	36	18	8	14	16.8	17.5	17.5	26.25	36.4		
875	34.5	38	200	600	40,000	6	3	40	42	24	12	18	20.8	21.3	23.5	32.25	42.4		

Note: Add suffixes below to catalog numbers for the option described:

C = Polymer insulator

K = Cable connector

#6 - 397.5 MCM ACSR

#6 - 500 MCM copper

P = Pole mount bracket

T = Tinned terminal pads

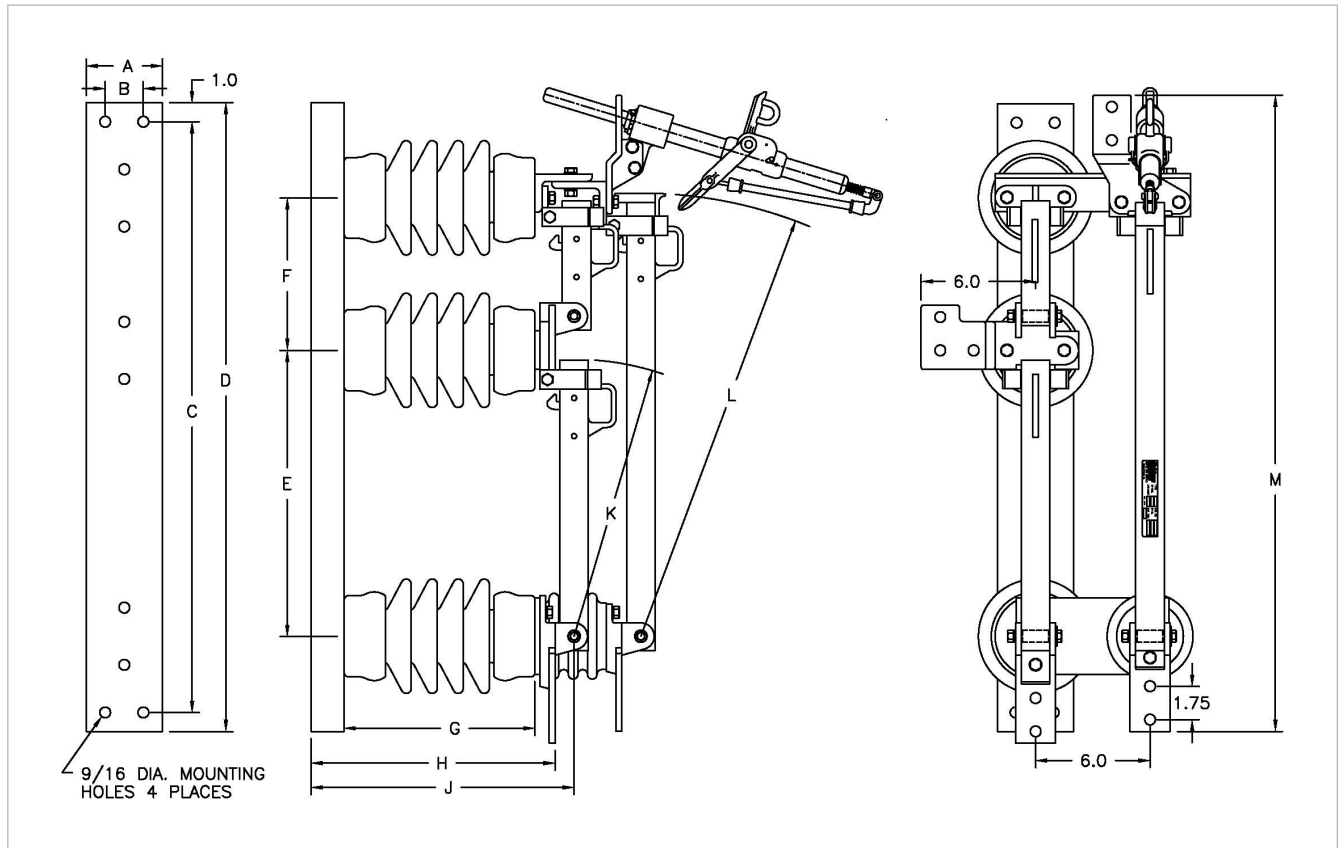
X = Backplate set

Example:

"675CT = Type B-1, 15 kV,
110 kV BIL, 600 A, polymer
insulators, tinned terminal pads"

Details

Type B-1 regulator bypass: 900 A with Saf-T-Gap interrupter (600 A loadbreak)



Cat. no.	Rating data					Dimensions - inches												Insulators
	NOM kV	MAX kV	kV BIL	Amps														
				Cont.	Mom.	A	B	C	D	E	F	G	H	J	K	L	M	
695	14.4	15	110	900	40,000	4	2	31	33	15	8	10	13.8	16.3	14.5	23.25	33.4	3" D.B.C.
795	23	25	150	900	40,000	4	2	34	36	18	8	14	16.8	17.5	17.5	26.25	36.4	
895	34.5	38	200	900	40,000	6	3	40	42	24	12	18	20.8	21.3	23.5	32.25	42.4	

Note: Add suffixes below to catalog numbers for the option described:

C = Polymer insulator

K = Cable connector

#6 - 397.5 MCM ACSR

#6 - 500 MCM copper

P = Pole mount bracket

T = Tinned terminal pads

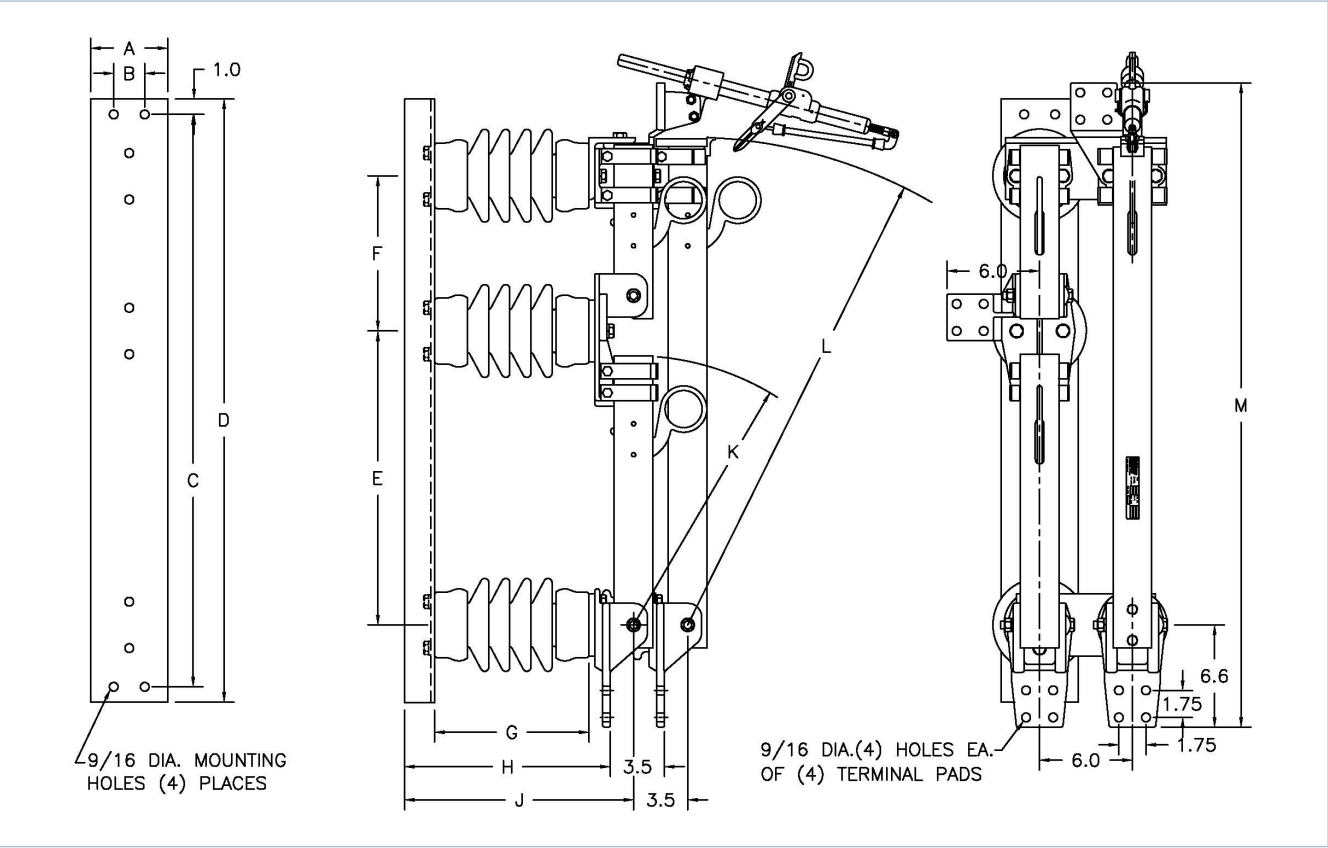
X = Backplate set

Example:

"695CT = Type B-1, 15 kV,
110 kV BIL, 900 A, polymer
insulators, tinned terminal pads"

Details

Type B-1 regulator bypass: 1,200 A with Saf-T-Gap interrupter (600 A loadbreak)



Cat. no.	Rating data					Dimensions - inches													Insulators
	NOM kV	MAX kV	kV BIL	Amps															
				Cont.	Mom.	A	B	C	D	E	F	G	H	J	K	L	M		
685	14.4	15	110	1,200	61,000	5	2	37	39	19	10	10	13.3	14.8	17.4	31.6	41.6	3" D.B.C.	
785	23	25	150	1,200	61,000	5	2	40	42	22	10	14	17.3	18.8	20.4	34.6	44.6		
885	34.5	38	200	1,200	61,000	6	3	46	48	28	10	18	21.3	22.8	26.4	40.6	50.6		

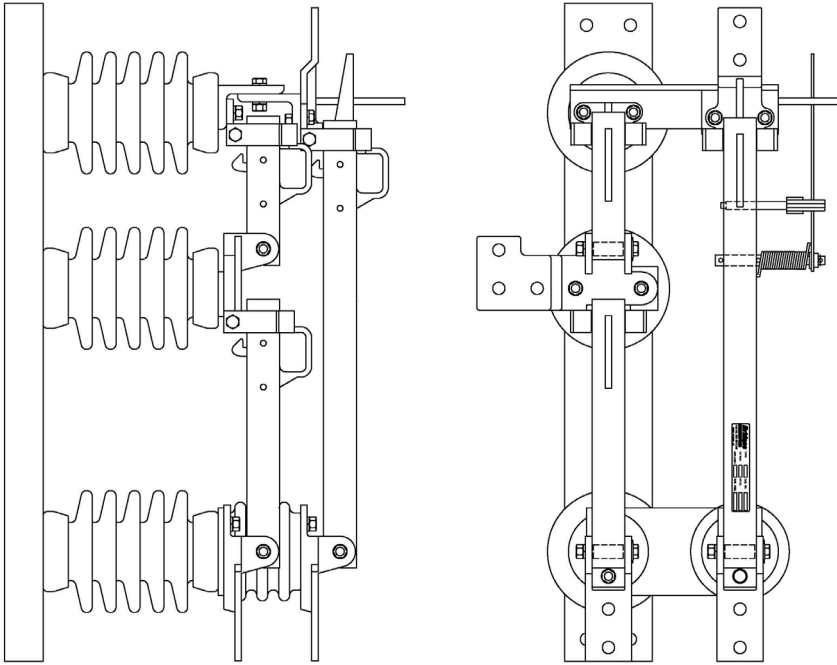
Note: Add suffixes below to catalog numbers for the option described:

- C = Polymer insulator
- P = Pole mount bracket
- T = Tinned terminal pads
- X = Backplate set

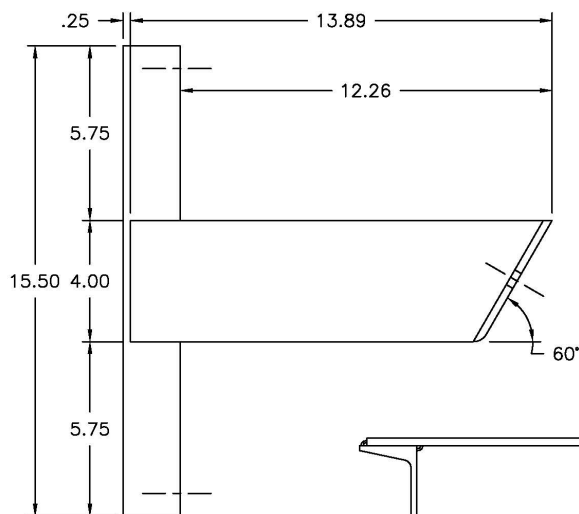
Example:
"685CT = Type B-1, 15 kV,
110 kV BIL, 1,200 A, polymer
insulators, tinned terminal pads"

Options

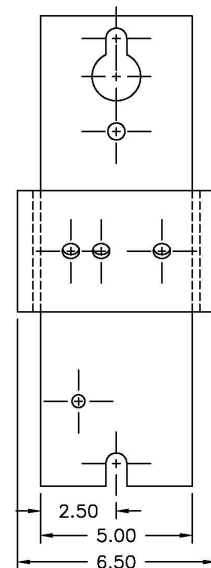
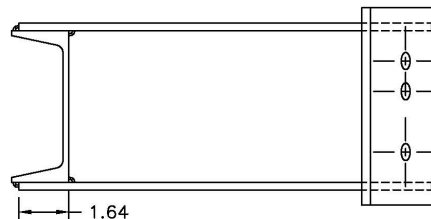
The Type B-1 regulator bypass disconnects are available with quick break and pole bracket options.



Quick break option

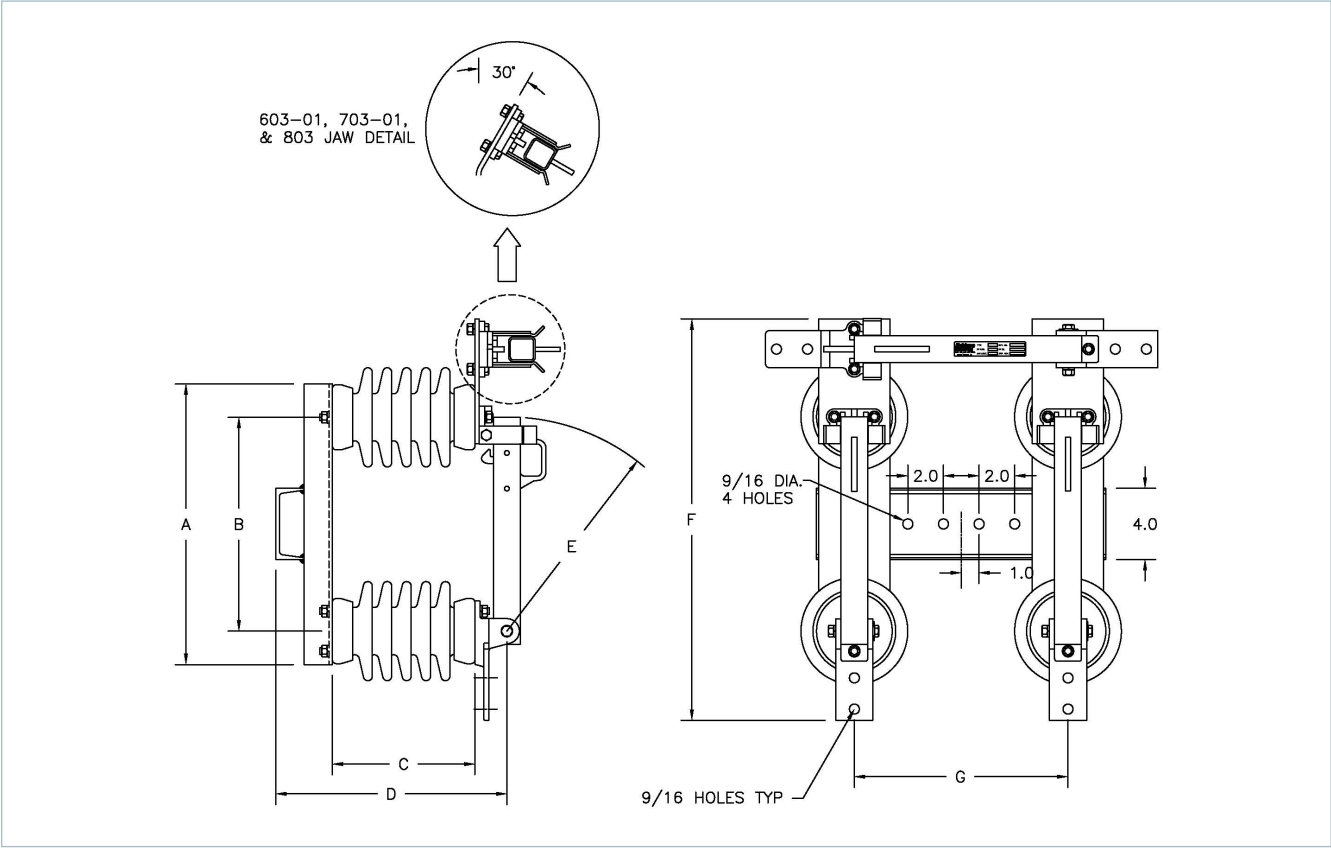


Pole bracket option



Details

Type B-2: O.C.R. (or regulator) bypass 600 A



Cat. no.	Rating data					Dimensions - inches						
	NOM kV	MAX kV	kV BIL	Amps								
				Cont.	Mom.	A	B	C	D	E	F	G
603	14.4	15	110	600	40,000	15.8	12	8	12.97	12	22.5	12
703	23	25	150	600	40,000	18.8	15	10	14.97	15	25.5	15
803	34.5	38*	150	600	40,000	21.8	18	10	14.97	18	30	18

* Grounded wye system only

Note: Add suffixes below to catalog numbers for the option described:

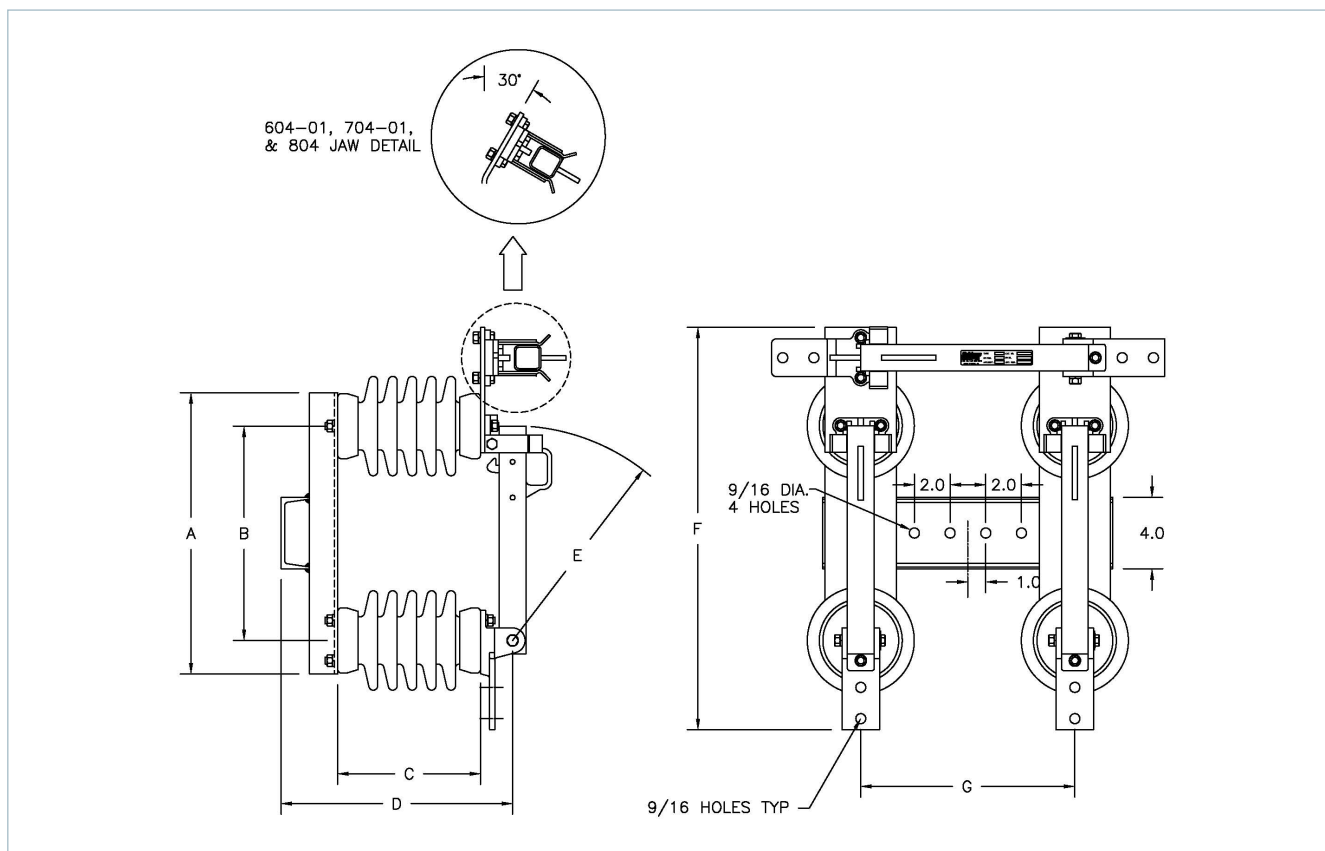
- C = Polymer insulator
- H = Loadbreak hooks
- K = Cable connector
- #6 - 397.5 MCM ACSR
- #6 - 500 MCM copper
- P = Pole mount bracket
- T = Tinned terminal pads
- X = Backplate set
- L = Bypass blade in "left hand" position
- 01 = Angled bypass blade

Example:

"603-01CPT = Type B-2, 15 kV, 110 kV BIL, 600 A, angled bypass blade, polymer insulators, pole mount bracket, tinned terminal pads"

Details

Type B-2: O.C.R. (or regulator) bypass 900 A



Cat. no.	Rating data					Dimensions - inches						
	NOM kV	MAX kV	kV BIL	Amps		A	B	C	D	E	F	G
				Cont.	Mom.							
604	14.4	15	110	900	40,000	15.8	12	8	12.97	12	22.5	12
704	23	25	150	900	40,000	18.8	15	10	14.97	15	25.5	15
804	34.5	38*	150	900	40,000	21.8	18	10	14.97	18	30	18

* Grounded wye system only

Note: Add suffixes below to catalog numbers for the option described:

C = Polymer insulator

H = Loadbreak hooks

K = Cable connector

#6 - 397.5 MCM ACSR

#6 - 500 MCM copper

P = Pole mount bracket

T = Tinned terminal pads

X = Backplate set

L = Bypass blade in "left hand" position

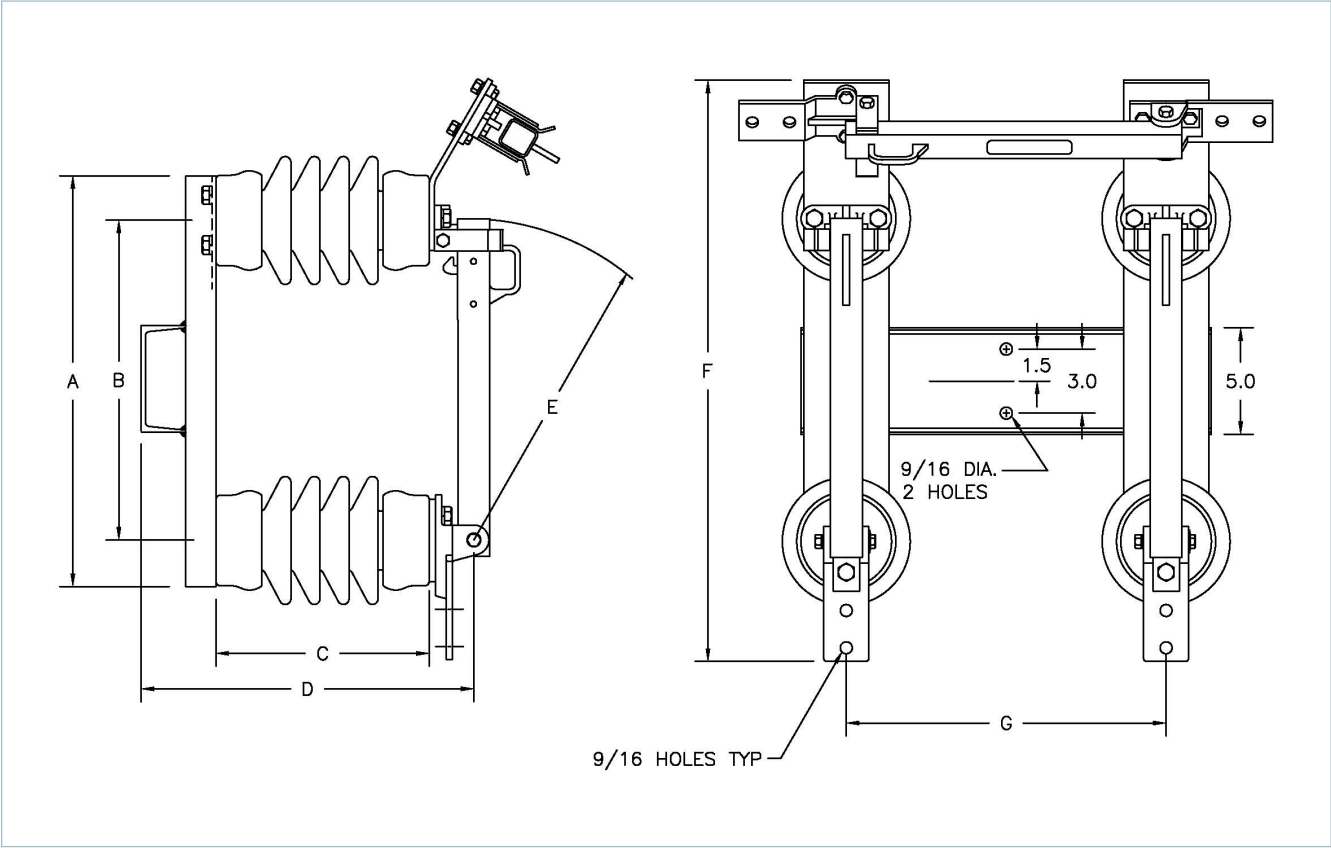
01 = Angled bypass blade

Example:

"604-01CPT = Type B-2, 15 kV, 110 kV BIL, 900 A, angled bypass blade, polymer insulators, pole mount bracket, tinned terminal pads"

Details

Type B-2: O.C.R. (or regulator) bypass substation style – 600 A



Cat. no.	Rating data					Dimensions - inches						
	NOM kV	MAX kV	kV BIL	Amps		A	B	C	D	E	F	G
				Cont.	Mom.							
605	14.4	15	110	600	40,000	19.3	15	10	15.6	15	27.25	15
705	23	25	150	600	40,000	22.3	18	14	19.6	18	30.25	18
805	34.5	38	200	600	40,000	28.5	24	18	23.6	24	36.25	24

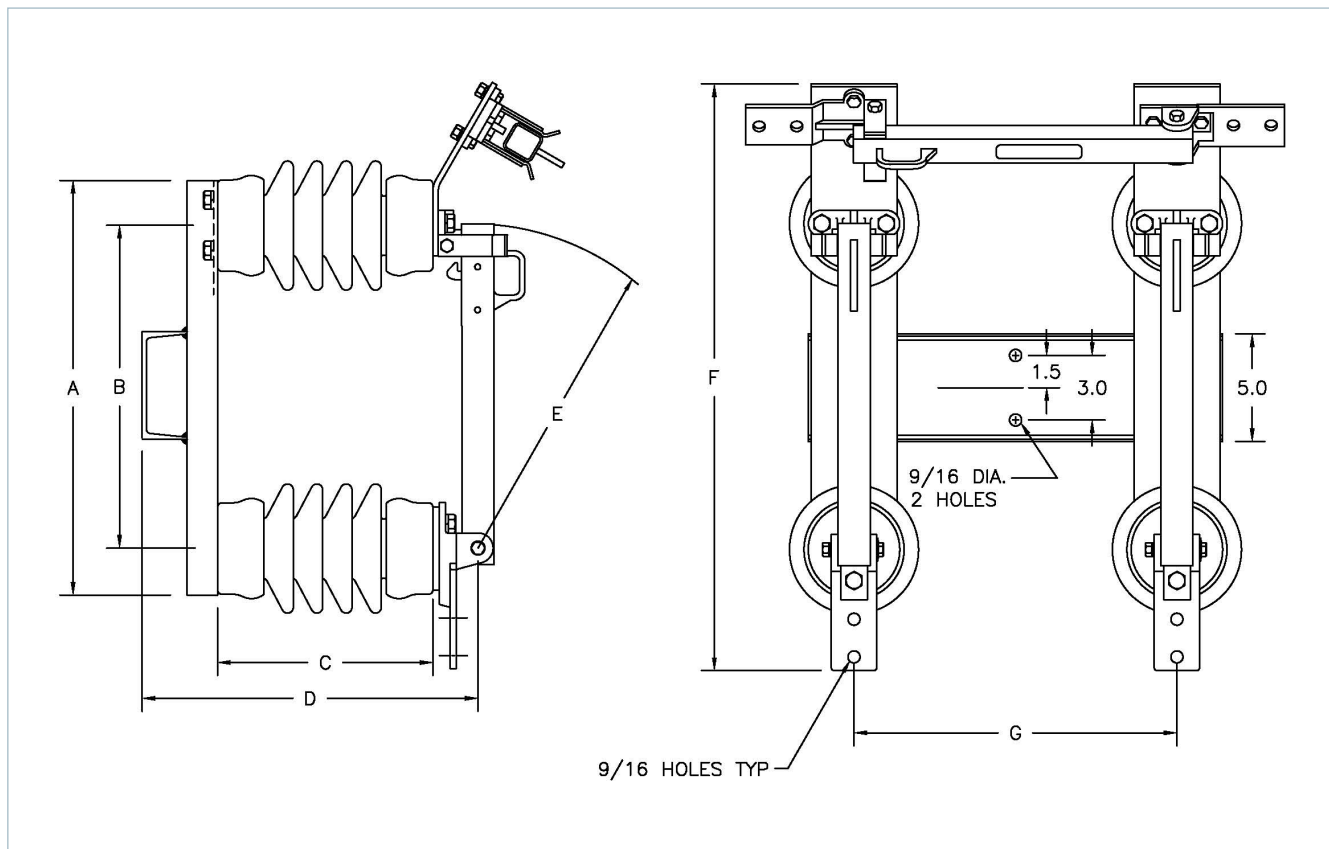
Note: Add suffixes below to catalog numbers for the option described:

- C = Polymer insulator
- H = Loadbreak hooks
- K = Cable connector
- #6 - 397.5 MCM ACSR
- #6 - 500 MCM copper
- P = Pole mount bracket
- T = Tinned terminal pads
- X = Backplate set
- L = Bypass blade in "left hand" position

Example:
"605CPT = Type B-2, 15 kV, 110 kV BIL, 600 A, polymer insulators, pole mount bracket, tinned terminal pads"

Details

Type B-2: O.C.R. (or regulator) bypass substation style – 900 A



Cat. no.	Rating data					Dimensions - inches						
	NOM kV	MAX kV	kV BIL	Amps		A	B	C	D	E	F	G
				Cont.	Mom.							
606	14.4	15	110	900	40,000	19.3	15	10	15.6	15	27.25	15
706	23	25	150	900	40,000	22.3	18	14	19.6	18	30.25	18
806	34.5	38	200	900	40,000	28.5	24	18	23.6	24	36.25	24

Note: Add suffixes below to catalog numbers for the option described:

C = Polymer insulator

H = Loadbreak hooks

K = Cable connector

#6 - 397.5 MCM ACSR

#6 - 500 MCM copper

P = Pole mount bracket

T = Tinned terminal pads

X = Backplate set

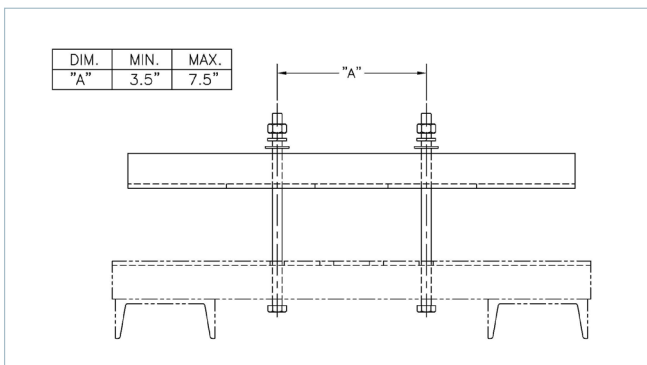
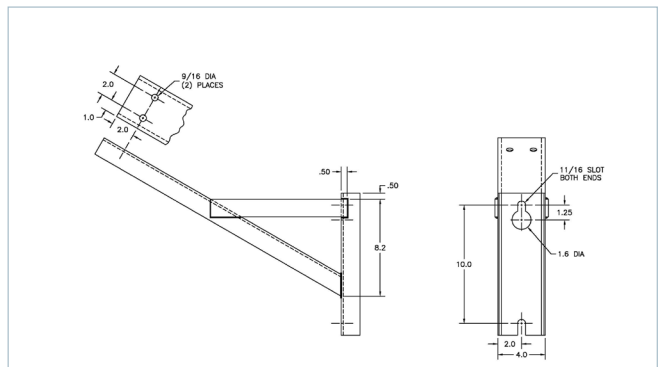
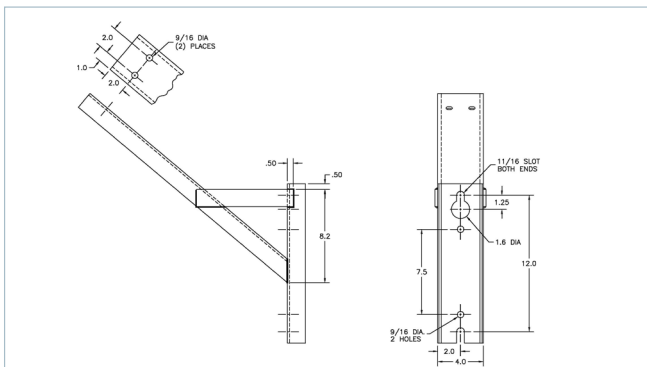
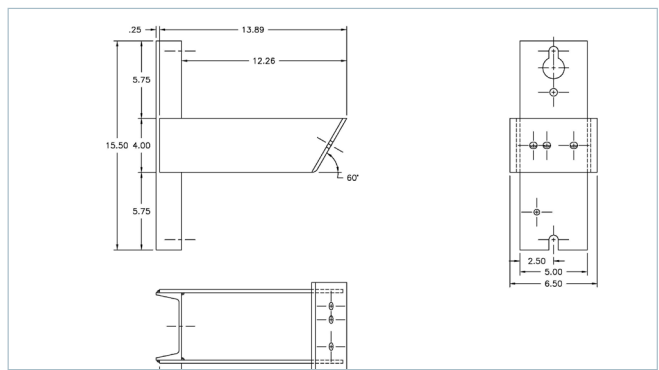
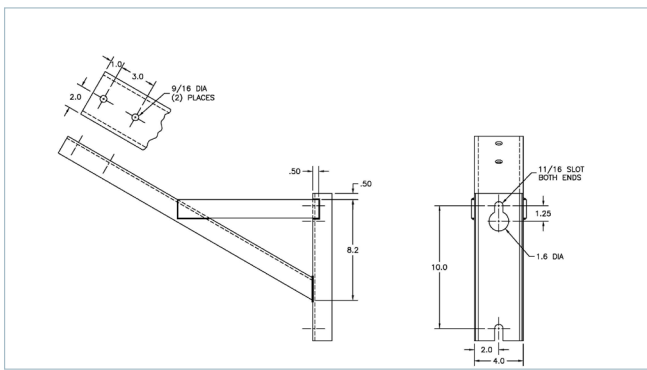
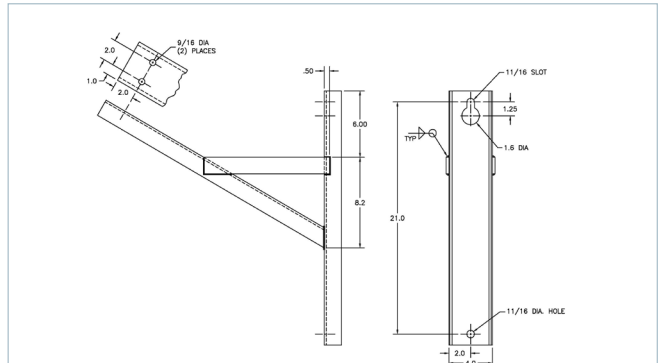
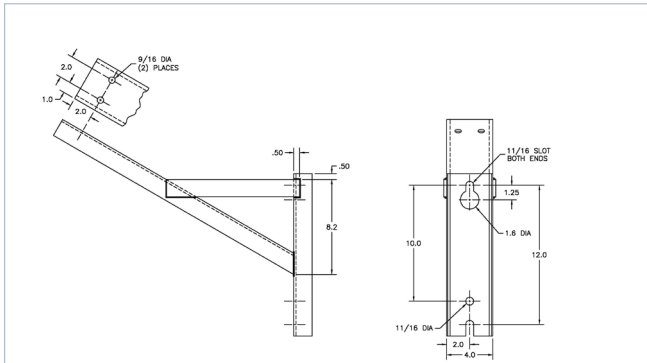
L = Bypass blade in "left hand" position

Example:

"606CPT = Type B-2, 15 kV, 110 kV BIL, 900 A, polymer insulators, pole mount bracket, tinned terminal pads"

Options

Mounting bracket options



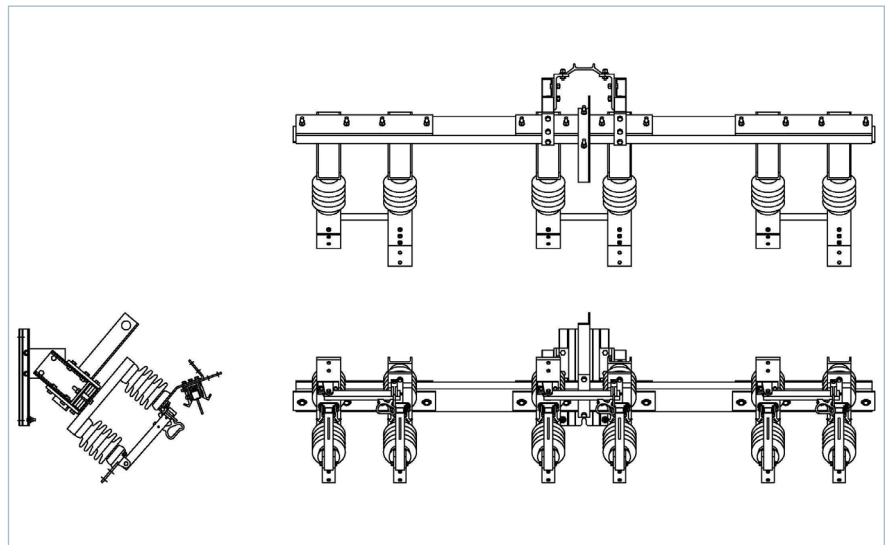
DIM.	MIN.	MAX.
"A"	3.5"	7.5"

Three-phase recloser bypass assembly



- Three type B-2 recloser bypass switches factory installed on an aluminum or fiberglass arm
- Aluminum or fiberglass arm mounted on adjustable pole gain, which provides the option of angling assembly based upon field conditions
- Single-point lift bracket
- Stable switching action while allowing for a visible indication of a break in the circuit
- Easy identification of the load and source sides in equipment while the circuit is in its normal configuration
- Bypass blades can be easily recognized as open or closed.

Contact factory
for application
information



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99 Bolton Sullivan Drive
Heber Springs, Arkansas 72543

For more information, including service or parts,
please contact our Customer Support Center.
Phone: +1 (800) 333-7421

usa.siemens.com/disconnectswitches

Order No.: E50001-F630-A117-1-4A00

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