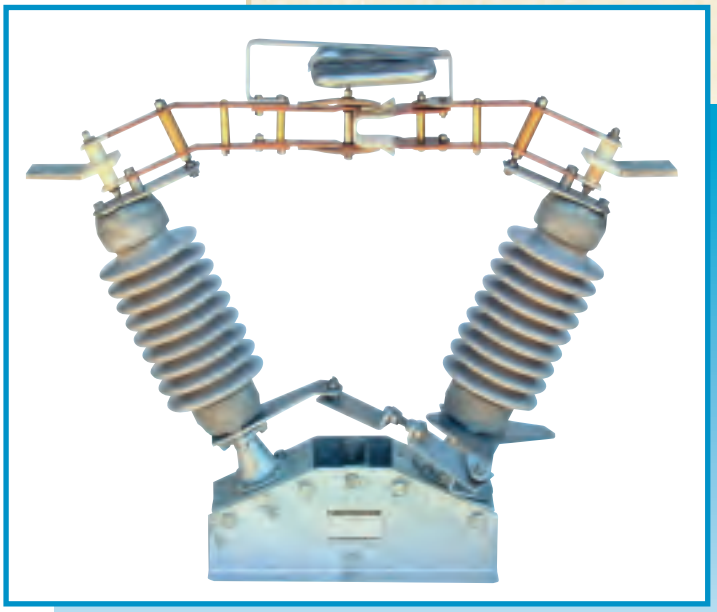
Bulletin DB-126CA05

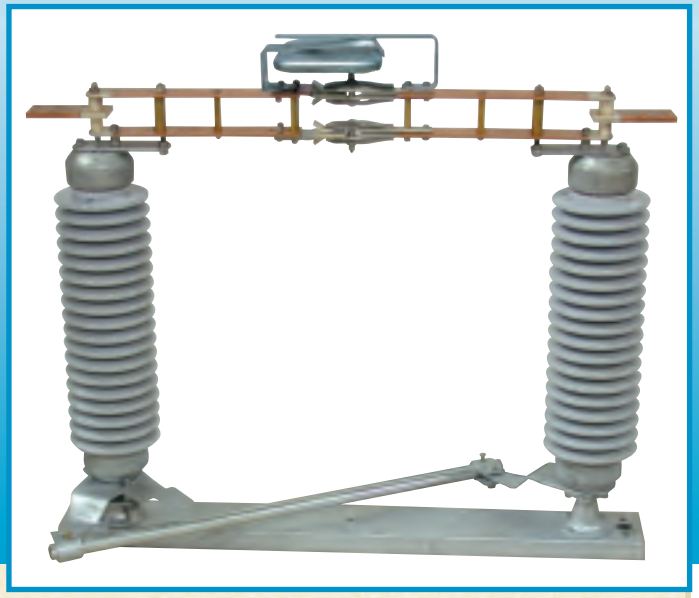
Types CB-C, CB-CV

Copper Centerbreak Switch

15 - 69 kV
1200 - 2000 A.



CB-CV



CB-C

CLEAVELAND/PRICE INC.
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FAX (724) 864-9040
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Designed for Simplicity

CB-C AND CB-CV APPLICATIONS

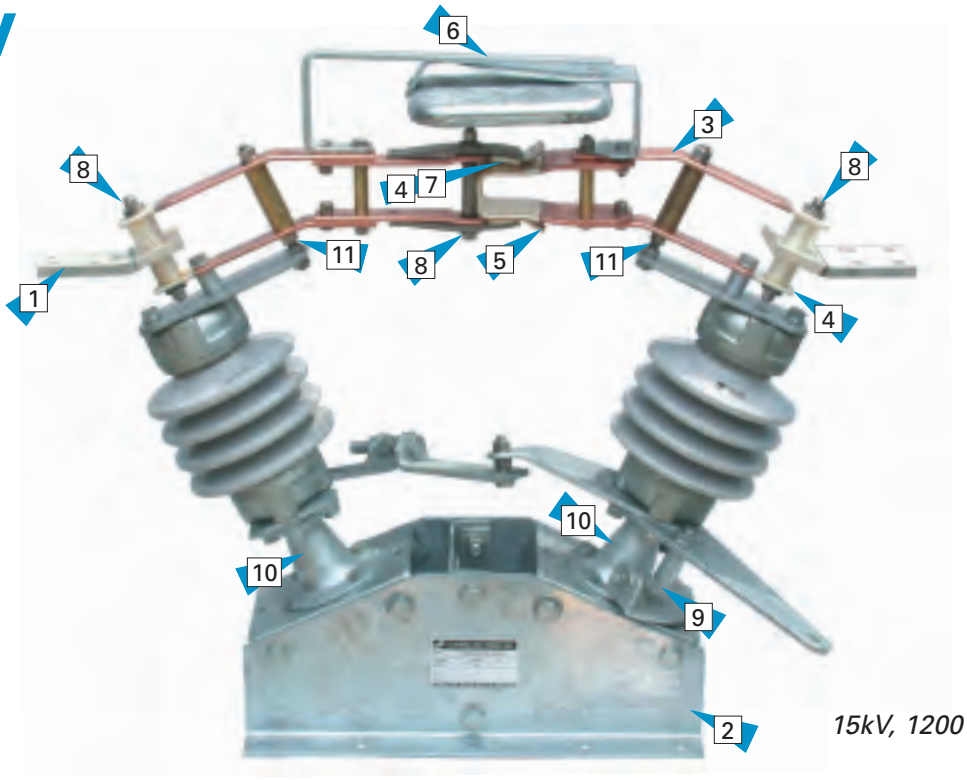
The Cleaveland/Price CB-C and CB-CV switches are three pole, group operated, copper center break switches for substation installations. The switches are suitable for use in a variety of applications including line disconnecting, circuit breaker bypass and isolation, and transformer isolation. The switches may be manually operated by use of a swing handle or wormgear mechanism or electrically operated by a type TP-C2 motor operator.

The CB-C switch has parallel insulators and the CB-CV is a "V" configuration switch. Either type may be mounted in the horizontal upright, vertical, or horizontal underhung position.

Accessories and options needed to adapt the switch to a customer's particular requirements are available. Arc horns or quick break whips can be supplied when small amounts of transformer magnetizing currents or line charging currents must be interrupted.

The CB-C and CB-CV are designed to meet applicable NEMA and IEEE Standards and the rating requirements of applicable IEC Standards.

CB-CV



15kV, 1200 A. rating shown

THE CLEAVELAND/PRICE APPROACH

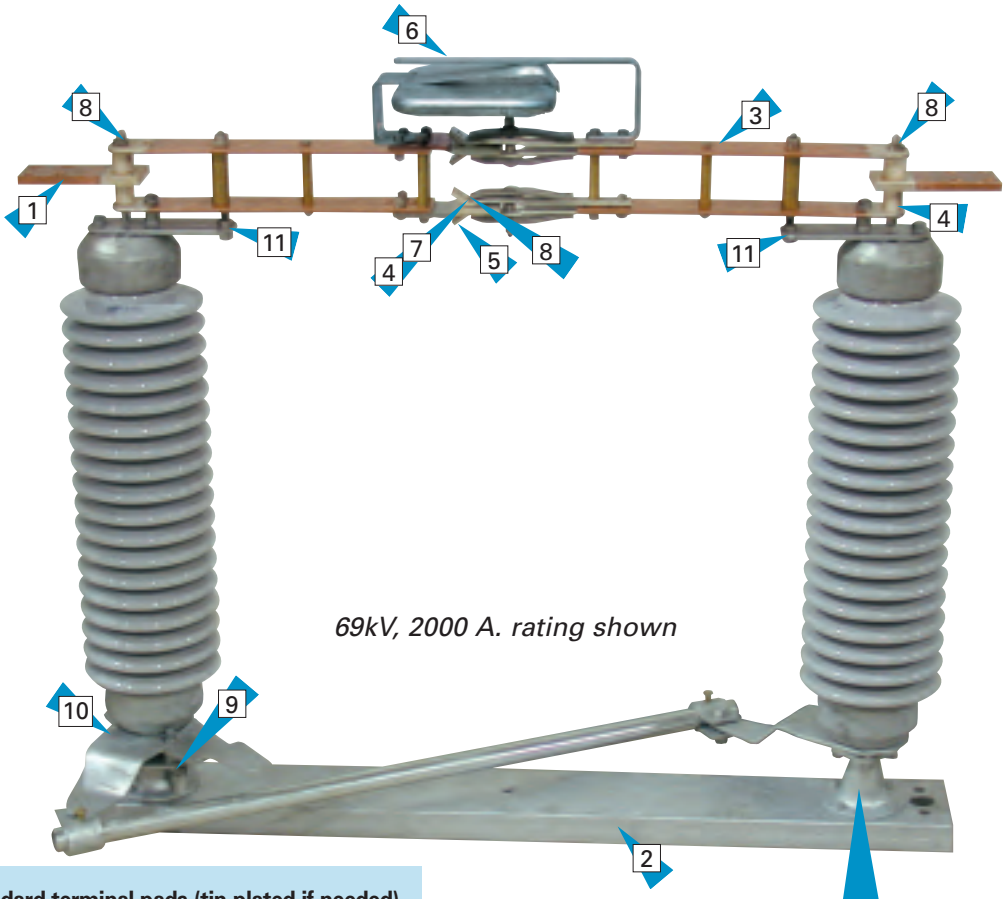
Cleaveland/Price has a very basic approach to design...keep it simple. It is an approach that is employed from material selection to mechanical design.

All Cleaveland/Price disconnect switch current carrying parts are manufactured from high strength, high conductivity copper. All switches are of non-cast design for superior dependability of parts. Switch performance is not troubled by flaws that could occur in the casting process.

The CB-C and CB-CV utilize high-pressure line contacts for effective transfer current. All movable contact parts are silver-plated copper. The contact design incorporates a generous lead-in blade guide to compensate for contact misalignment caused by ice loads or bus thermal cycling.

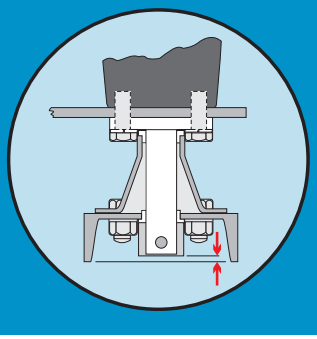
Engineered for Performance

CB-C



69kV, 2000 A. rating shown

1. NEMA standard terminal pads (tin-plated if needed)
2. Rigid hot-dip galvanized steel base
3. Copper truss blade
4. Silver-to-silver contacts at hinge and jaw
5. Blade guide with generous lead-in
6. Arc horns / Ice shield
7. Replaceable jaw end contacts
8. Stainless steel contact springs
9. Rotating insulator stop
10. Maintenance-free bearing assembly
11. Blade alignment provision



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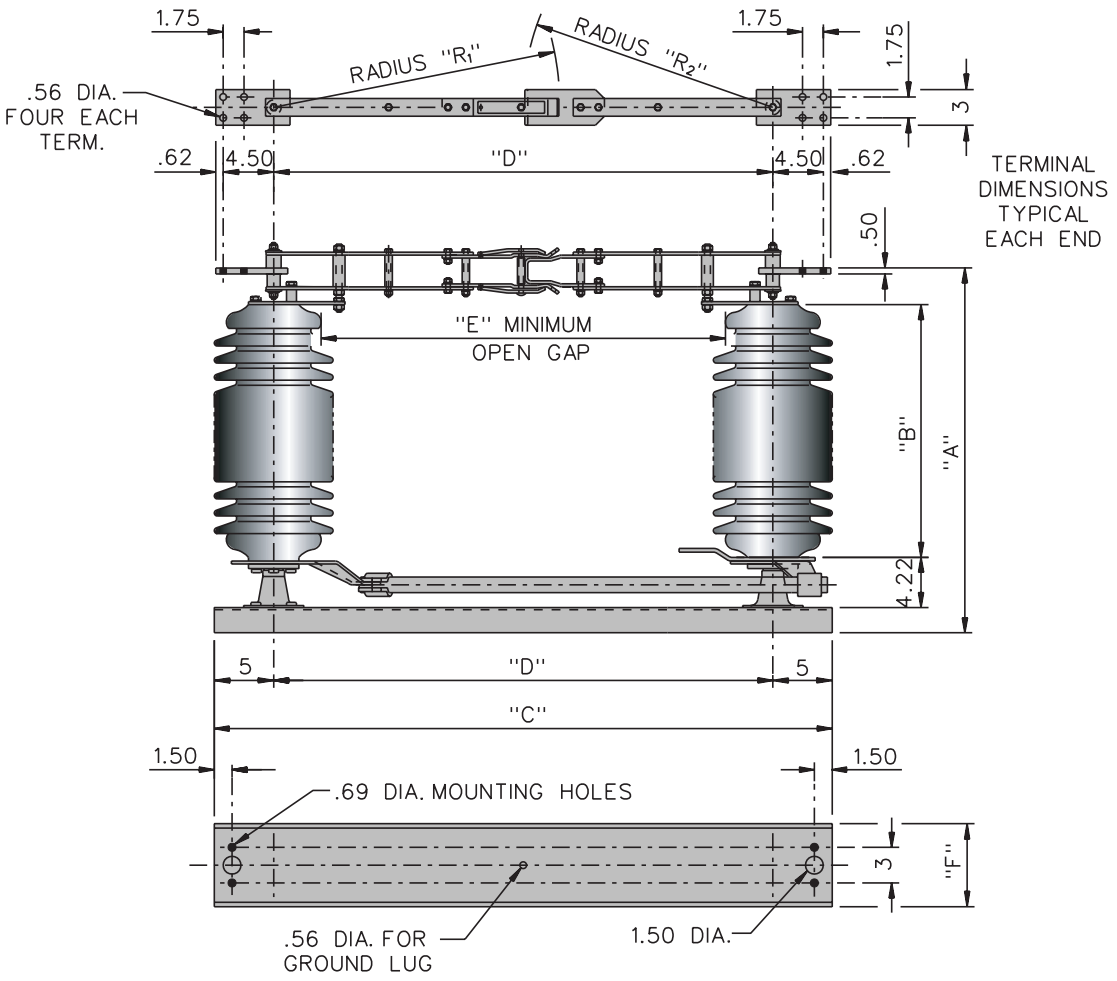
Permanently lubricated, maintenance-free sleeve bearing.

Rotating insulator bearing does not extend below the housing base to interfere with the mounting structure.

The CB-CV and CB-C continue the Cleaveland/Price tradition of designing simple, dependable switches without the use of castings. Knowledge gained from maintaining switches in the field for over 60 years has played a major part in refining the CB-CV and CB-C. Significant design features include:

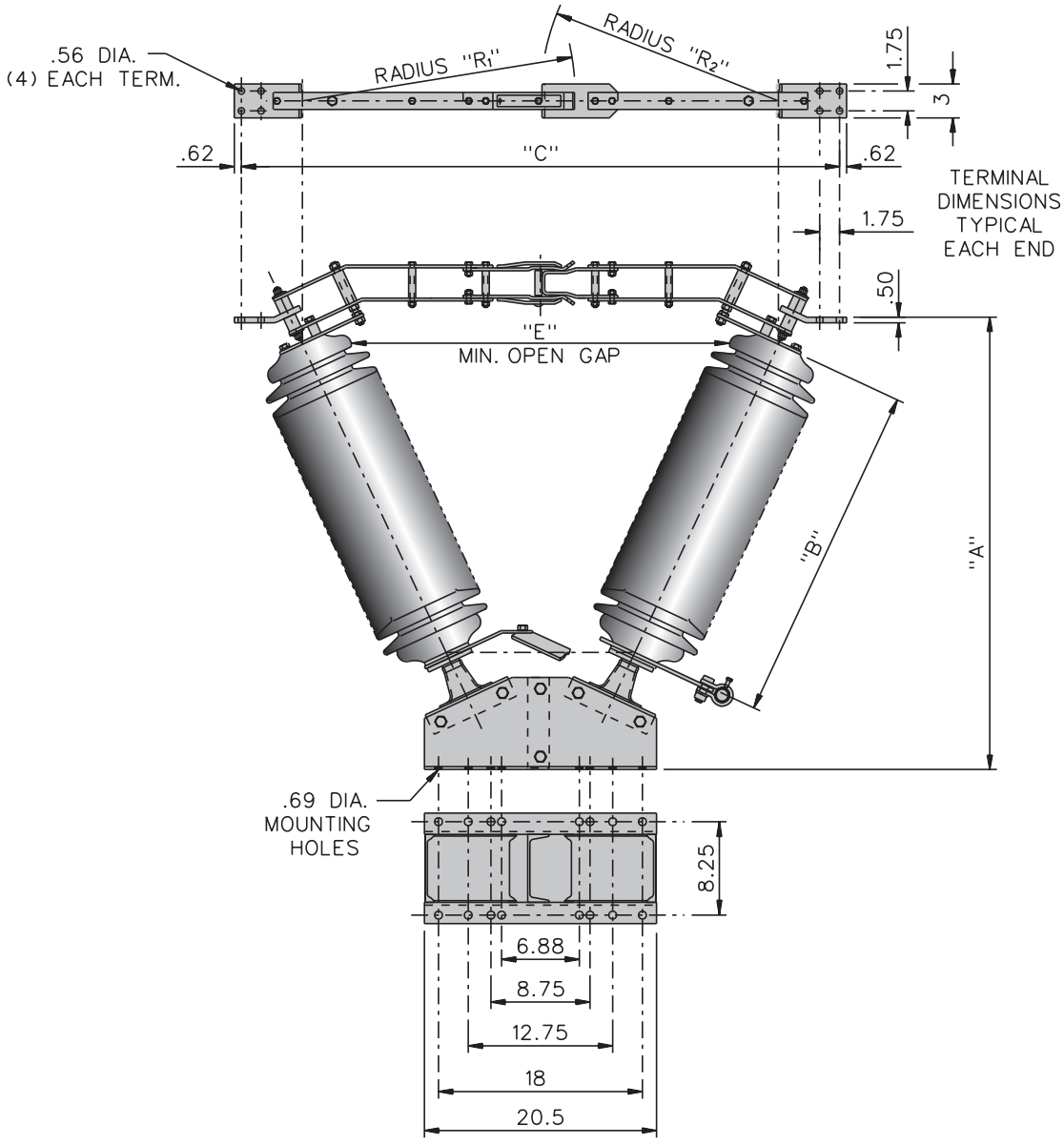
- Total non-cast copper and steel parts resulting in superior dependability of parts
- Live parts constructed from hard-drawn, high conductivity copper, producing stronger, more conductive components than parts made of cast materials
- High-pressure line contacts for effective transfer current
- Wiping action at the jaw contacts keep the contacts clean for years of reliable service. Contacts have a long wipe surface to accommodate insulator movement.
- Simple inter-insulator linkage.
- Rigid base assembly

CB-C Technical Data



Nom. kV	Max. kV	KV BIL	Ins. TR#	Amp.	Mom. kA	Switch Style Number	Dimensions								Wt./ Pole
							"A"	"B"	"C"	"D"	"E"	"F"	"R1"	"R2"	
7.2	8.3	95	202	1200	61	C26A045G01	16.71	7.5	28	18	7	6	12.01	8.88	91
				2000	100	C26A046G01	16.87								94
14.4	15.5	110	205	1200	61	C26A045G02	19.21	10	28	18	10	6	12.01	8.88	105
				2000	100	C26A046G02	19.37								108
23	27	150	208	1200	61	C26A045G03	23.21	14	28	18	12	6	12.01	8.88	125
				2000	100	C26A046G03	23.37								128
34.5	38	200	210	1200	61	C26A045G04	27.21	18	36	26	18	6	15.01	11.88	154
				2000	100	C26A046G04	27.37								159
46	48.3	250	214	1200	61	C26A045G05	31.21	22	40	30	22	6	18.01	14.88	202
				2000	100	C26A046G05	31.37								208
69	72.5	350	216	1200	61	C26A045G06	39.44	30	52	42	32	7	24.01	20.88	263
				2000	100	C26A046G06	39.60								272

CB-CV Technical Data



Nom. kV	Max. kV	KV BIL	Ins. TR#	Amp.	Mom. kA	Switch Style Number	Dimensions "A"	"B"	"C"	"E"	"R1"	"R2"	Wt./ Pole
14.4	15.5	110	205	1200	61	C26A038G01	21.78	10	36.42	10	16.67	13.29	135
				2000	100	C26A039G01							143
23	27	150	208	1200	61	C26A038G02	25.41	14	39.80	12	18.36	14.98	156
				2000	100	C26A039G02							165
34.5	38	200	210	1200	61	C26A038G03	29.03	18	43.18	18	20.04	16.68	178
				2000	100	C26A039G03							189
46	48.3	250	214	1200	61	C26A038G04	32.66	22	46.57	22	21.73	18.36	224
				2000	100	C26A039G04							234
69	72.5	350	216	1200	61	C26A038G05	39.91	30	53.33	32	25.12	21.75	270
				2000	100	C26A039G05							282

Operators / Accessories

Swing Handle Operator

Handcrank Operator

Motor Operator Type TP-C2

Standard Operator Features

- **Swing handle operator**
- **Padlock provision in both the open and closed positions**
- **Ground strap for vertical operating pipe**
- **Adjustable stops**
- **Clamp-on open/closed indicators**
- **Self-lubricating, maintenance-free outboard bearing**
- **1-1/2" IPS galvanized steel vertical operating pipe**

Ordering Information

Furnish:

Switch type
Voltage
Amperage
Momentary rating
BIL level
Mounting position
Operator type
Accessories required

Available Accessories

Arc horns
Auxiliary switch
Braidless ground contact
Electrical interlock
Extended operator
Insulated vertical pipe
Key interlock
Mounting hardware
Operator grounding platform
Outriggers
Quick break whips
Spill gaps
Terminal connectors

This brochure describes our standard product and does not show variations in design that may be available. Contact the factory for additional details.

Cleaveland/Price reserves the right to make changes or improvements to the product shown in this brochure without notice or obligation.

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