DB-C and DB-CV Design Advantages

- Total non-cast copper and steel construction resulting in superior dependability of parts.
- Simple:
  - No blade rotation mechanism head on the rotating insulator.
  - Switch does not depend upon precise blade turnover in a break-jaw to attain full contact pressure.
- Quick and easy installation with adjustment-free “fold and lock” contact system.
- Parallel blade design:
  - Better performance at all contact points under short circuit due to magnetic attraction of the truss blades.
  - Airflow through the blade cools the blade efficiently.
- Wiping contacts at all moving contact points.
- Blade leveling adjustment as well as leveling screws at the stationary insulators.
- Folding blade design has superior ice breaking ability.
- Direct entry of the blade into the break-jaw.
- Eliminates the effect of contact drag when closing, ensuring complete closing of the switch for maximum contact pressure.

Operators / Accessories

- Geared handcrank operator with unbreakable, non-cast stops.
- Motor operator type TP-C2 with torque relief decoupler (shown uncoupled).
- Available Accessories:
  - Arc horns
  - Quick break whips
  - Auxiliary switch assembly
  - Brass ground
  - Electrical interlock
  - Extended operator
  - Ground blade (consult the factory for ground blades on the DB-CV)
  - Insulated interphase pipe
  - Insulated vertical pipe
  - Key interlock
  - Mounting hardware
  - Operator grounding platform
  - Outriggers
  - Rail gaps
  - Terminal connectors

Standard Operator Features

- Wormgear operator
- Padlock provisions in both the open and closed positions
- Tin-plated ground strap for vertical operating pipe
- Adjustable stops
- Clamp-on open/closed indicators
- Self-lubricating, maintenance-free outboard bearing
- Stainless-steel, type 316 corrosion-resistant bearing construction

Ordering Information

- Furnish:
  - Switch type
  - Voltage
  - Momentary rating
  - BC, 3000 A.
  - Mounting position
  - Operator type
  - Accessories required

Available Accessories

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

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Contact and blade details

- Live parts constructed from hard-drawn, high conductivity copper producing stronger, more conductive components than parts made from cast material.
- High pressure line contacts at the break-jaws.
- Proven high-pressure ring contacts backed by stainless steel contact springs on the folding blade pair.
- Blade guide on the break-jaw as well as the leading edge of the blade for reliable correct entry, eliminating the need for fine blade entry adjustment.
- Folding blade spring assembly with fully enclosed stainless steel springs.
- Stainless steel live parts hardware.
- Stainless steel, type 316 corrosion-resistant contact springs.

Rotating insulator bearing details

- High strength, non-cast, hot-dip galvanized steel shaft.
- Non-ferrous seal retainer.
- Special ozone and UV resistant seals outlast conventional seal and contain no metal parts that typically corrode.
- Maintenance-free, permanently lubricated construction.
- Individually sealed ball bearing assemblies in sealed grease-packed housing.
- Permanently adjusted bearing.

Engineered for Performance

- High strength, non-cast, hot-dip galvanized steel shaft.
- Non-ferrous seal retainer.
- Special ozone and UV resistant seals outlast conventional seal and contain no metal parts that typically corrode.
- Maintenance-free, permanently lubricated construction.
- Individually sealed ball bearing assemblies in sealed grease-packed housing.
- Permanently adjusted bearing.

Copper

Double Break Switch

115 kV - 230 kV
1200 A. - 3000 A.

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DB-C and DB-CV can be mounted in the horizontal upright, electrically operated with a type TP-C2 motor operator. The switches may be manually operated by use of a wormgear mechanism or isolation, and transformer isolation. The switch may include line disconnecting, circuit breaker bypass and the rating requirements of applicable IEC Standards. The switches are suitable for use in a variety of applications including substation installations. The DB-C has parallel insulators while the DB-CV’s stationary insulators are in a “V” configuration.

The DB-CV uses the same current carrying parts as the DB-C; however, the jaw end insulators are inclined. By having the jaw end insulators inclined, the cable conductors establish electrical clearance from the base without the need for wire guides or outriggers. The inclined insulator design tradition of designing simple, dependable switches without horns or quick break whips can be supplied when small amounts of magnetizing or line charging current must be interrupted.

DB-C Application

The DB-C is used in all current carrying parts of the DB-C; however, jaw end insulators are inclined. By having the jaw end insulators inclined, the cable conductors establish electrical clearance from the base without the need for wire guides or outriggers. The inclined insulator design tradition of designing simple, dependable switches without horns or quick break whips can be supplied when small amounts of magnetizing or line charging current must be interrupted.

DB-C Technical Data

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DB-CV Technical Data

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<td>6</td>
<td>49.25</td>
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DB-CV Application

The DB-CV uses the same current carrying parts as the DB-C; however, the jaw end insulators are inclined. By having the jaw end insulators inclined, the cable conductors establish electrical clearance from the base without the need for wire guides or outriggers. The inclined insulator design tradition of designing simple, dependable switches is continued. This switch is suitable for low profile substations.
The Cleaveland/Price DB-C and DB-CV are three pole, group operated, copper double break switches for substation installations. The DB-C has parallel insulators while the DB-CV's stationary insulators are in a "V" configuration.

The switches meet applicable NEMA and IEEE Standards and the rating requirements of applicable IEC Standards. The switches are suitable for use in a variety of applications including line disconnecting, circuit breaker bypass and isolation, and transformer isolation. The switch may be single group operated, copper double break switches for substation installations. The DB-C has parallel insulators while the DB-CV's stationary insulators are in a "V" configuration. DB-CV Application

The DB-CV was the same current carrying parts as the DB-C; however, the jaw end insulators are inclined. By having the jaw end insulators inclined, the cable conductors establish electrical clearance from the base without the need for wire guides or outriggers. The inclined insulator design allows the switch to be used in a low profile substations.

| Nom. kV | Max. kV BIL Amp Mom kA | A | B | C | D | E | R | T | Lbs. |
|--------|-------------------------|---|---|---|---|---|---|---|---|-----|
| 230    | 230 245 900             | 45 | 40 | 38 | 15 | 30 | 21 | 12 | 1.0 | 884  |
| 245    | 245 245 900             | 45 | 40 | 38 | 15 | 30 | 21 | 12 | 1.0 | 884  |
| 1050   | 1050 1100 1100         | 90 | 80 | 76 | 30 | 60 | 30 | 18 | 1.0 | 1495 |
| 115    | 115 123 550             | 45 | 40 | 38 | 15 | 30 | 21 | 12 | 1.0 | 1165 |
| 123    | 123 123 550             | 45 | 40 | 38 | 15 | 30 | 21 | 12 | 1.0 | 1165 |
| 550    | 550 550 550             | 90 | 80 | 76 | 30 | 60 | 30 | 18 | 1.0 | 1495 |
| 61     | 61 70 37               | 45 | 40 | 38 | 15 | 30 | 21 | 12 | 1.0 | 838  |
| 70     | 70 70 37               | 45 | 40 | 38 | 15 | 30 | 21 | 12 | 1.0 | 838  |
| 161    | 161 170 750            | 90 | 80 | 76 | 30 | 60 | 30 | 18 | 1.0 | 1619 |
| 170    | 170 170 750            | 90 | 80 | 76 | 30 | 60 | 30 | 18 | 1.0 | 1619 |
| 750    | 750 750 750            | 90 | 80 | 76 | 30 | 60 | 30 | 18 | 1.0 | 1619 |

For 230kV, 20º X each terminal.
The DB-C and DB-CV are three pole, group operated, copper double break switches for substation installations. The DB-C has parallel insulators while the DB-CV's stationary insulators are in a "V" configuration. The switches are suitable for use in a variety of applications as a group operated, copper double break switches for substation substations.

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 magnetizing or line charging current must be interrupted. The switches meet applicable NEMA and IEEE Standards and the rating requirements of applicable IEC Standards.

The switches are suitable for use in a variety of applications such as group operated, copper double break switches for substations. The DB-CV's stationary insulators are in a "V" configuration.

DB-C Technical Data

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<th>Voltage</th>
<th>kV BIL</th>
<th>Amp</th>
<th>Current-Carrying Parts</th>
<th>Conductivity Copper</th>
<th>Terminal Pads with Tin-Plated Copper Live Parts Shown</th>
<th>Dimensions</th>
<th>Weight/Each End</th>
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DB-CV Technical Data

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DB-CV Application

The DB-CV uses the same current carrying parts as the DB-C. However, the jaw end insulators are inclined. By having the jaw end insulators inclined, the cable conductors establish electrical clearance from the base without the need for wire guides or outriggers. The inclined insulator design of the DB-CV makes the switch suitable for low profile substations.
Contact and blade details
- Live parts constructed from high-conductivity copper and steel; no cast material
- High pressure live contacts at the break-jaws
- Prong-high pressure ring contacts backed by stainless steel contact springs on the holding blade joint
- Blade guide on the break-jaw as well as the leading edge of the blade for reliable contact entry, eliminating the need for fine blade entry adjustment
- Folding blade spring assembly with fully enclosed stainless steel springs
- Stainless steel live parts hardware
- Stainless steel, type 316 corrosion-resistant contact springs

Engineered for Performance

DB-C and DB-CV Design Advantages
- Total non-cast copper and steel construction resulting in superior dependability of parts
- Simple - No blade rotation mechanism head on the rotating insulator
- Switch does not depend upon precise blade turnover in a break-jaw to attain full contact pressure
- Quick and easy installation with adjustment-free “fold and lock” contact system
- Parallel blade design - Better performance at all contact points under short circuit due to magnetic attraction of the truss blades
- Airflow through the blade cools the blade efficiently
- Wiping contacts at all moving contact points
- Blade leveling adjustment as well as leveling screws at the stationary insulators
- Folding blade design has superior ice breaking ability
- Direct entry of the blade into the break-jaw
- Eliminates the effects of contact drag when closing, assuring complete closing of the switch for maximum contact pressure

Operators / Accessories

Standard Operator Features
- Wormgear operator
- Pedestal provisions in both the open and closed positions
- Tin-plated ground strap for vertical operating pipe
- Adjustable stop
- Clamp-on open/closed indicators
- Self-lubricating, maintenance-free outboard bearing
- 1½” IPS galvanized steel vertical operating pipe
- Adjustable radius outboard bearing lower
- Threaded interphase and drive lower adjustment

Copying Double Break Switch
115 kV - 230 kV
1200 A. - 3000 A.

Available Accessories
- Air horn
- Quick break whip
- Auxiliary switch assembly
- Braided ground
- Electrical interlock
- Extended operator
- Ground blades (consult the factory for ground blades on the DB-CV)
- Insulated interphase pipe
- Insulated vertical pipe
- Key interlock
- Mounting hardware
- Operator grounding platform
- Outriggers
- Pill 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.

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Ordering Information
- Switch type
- Voltage
- Monumentary rating
- Bolt holes
- Mounting position
- Operator type
- Accessories required

Operators / Accessories

Cleaveland/Price Inc.
14000 Rt. 993, Trafford, PA 15085 (724) 864-4177 FAX (724) 864-9040
E-mail: sales@cleavelandprice.com
www.cleavelandprice.com

Switch Types: DB-C and DB-CV

Bulletin DB-104HA09

Cleaveland/Price Inc.
14000 Rt. 993, Trafford, PA 15085 (724) 864-4177 FAX (724) 864-9040
E-mail: sales@cleavelandprice.com
www.cleavelandprice.com

DB-C and DB-CV

Design Advantages
- Total non-cast copper and steel construction resulting in superior dependability of parts
- Simple - No blade rotation mechanism head on the rotating insulator
- Switch does not depend upon precise blade turnover in a break-jaw to attain full contact pressure
- Quick and easy installation with adjustment-free “fold and lock” contact system
- Parallel blade design - Better performance at all contact points under short circuit due to magnetic attraction of the truss blades
- Airflow through the blade cools the blade efficiently
- Wiping contacts at all moving contact points
- Blade leveling adjustment as well as leveling screws at the stationary insulators
- Folding blade design has superior ice breaking ability
- Direct entry of the blade into the break-jaw
- Eliminates the effects of contact drag when closing, assuring complete closing of the switch for maximum contact pressure
Contact and blade details
- Live parts constructed from hard-drawn, high conductivity copper providing stronger, more reliable electrical contact and greater conductivity.
- High pressure live contacts at the break-jaws.
- Proven high pressure ring contacts backed by stainless steel contact springs on the rotating blade joint.
- Blade guide on the break-jaw as well as the leading edge of the blade for reliable contact entry, eliminating the need for fine blade entry adjustment.
- Folding blade spring assembly with fully enclosed stainless steel springs.
- Stainless steel live parts hardware.
- Stainless steel, type 316 corrosion-resistant contact springs.

Engineered for Performance
- Wormgear operator
- Padlock provision in both the open and closed positions
- Tin-plated ground strap for vertical operating pipe
- Adjustable stops
- Lamp-on open/closed indicators
- Self-lubricating, maintenance-free outboard bearing
- 2” IPS galvanized steel vertical operating pipe
- Adjustable radius outboard bearing lever
- Threaded interphase and drive lever adjustment

DB-C and DB-CV Design Advantages
- Total non-cast copper and steel construction resulting in superior dependability of parts.
- Simple:
  - No blade rotation mechanism head on the rotating insulator.
  - Switch does not depend upon precise blade turnover in a break-jaw to attain full contact pressure.
- Quick and easy installation with adjustment-free “fold and lock” contact system.
- Parallel blade design:
  - Better performance at all contact points under short circuit due to magnetic attraction of the truss blades.
  - Airflow through the blade cools the blade efficiently.
- Wiping contacts at all moving contact points.
- Blade leveling adjustment as well as leveling screws at the stationary insulators.
- Folding blade design has superior ice breaking ability.
- Direct entry of the blade into the break-jaw.

Operators / Accessories
- Geared handcrank operator with unbreakable, non-cast stops.
- Motor operator type TP-C2 with torque relief decoupler (shown uncoupled).
- Available Accessories:
  - Arc horns
  - Quick break whips
  - Auxiliary switch assembly
  - Brassed ground
  - Electrical interlock
  - Extended operator
  - Ground blades (consult the factory for ground blades on the DB-CV)
  - Insulated interphase pipe
  - Translated vertical pipe
  - Key interlock
  - Mounting hardware
  - Operator grounding platform
  - Outriggers
  - Ball gaps
  - Terminal connectors

Ordering Information
- Switch type
- Voltage
- Momentary rating
- Bl, b
- Mounting position
- Operator type
- Accessories required

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.

Standard Operator Features
- Wormgear operator
- Padlock provision in both the open and closed positions
- Tin-plated ground strap for vertical operating pipe
- Adjustable stops
- Clamp-on open/closed indicators
- Self-lubricating, maintenance-free outboard bearing
- 2” IPS galvanized steel vertical operating pipe
- Adjustable radius outboard bearing lever
- Threaded interphase and drive lever adjustment

Switch Types: DB-C and DB-CV
DB-C and DB-CV Double Break Switch
- 115 kV - 230 kV
- 1200 A - 3000 A
- 1 15 kV - 230 kV
- 1200 A - 3000 A
- 1 15 kV - 230 kV
- 1200 A - 3000 A
- 1 15 kV - 230 kV
- 1200 A - 3000 A
- 1 15 kV - 230 kV
- 1200 A - 3000 A
- 1 15 kV - 230 kV
- 1200 A - 3000 A
- 1 15 kV - 230 kV
- 1200 A - 3000 A