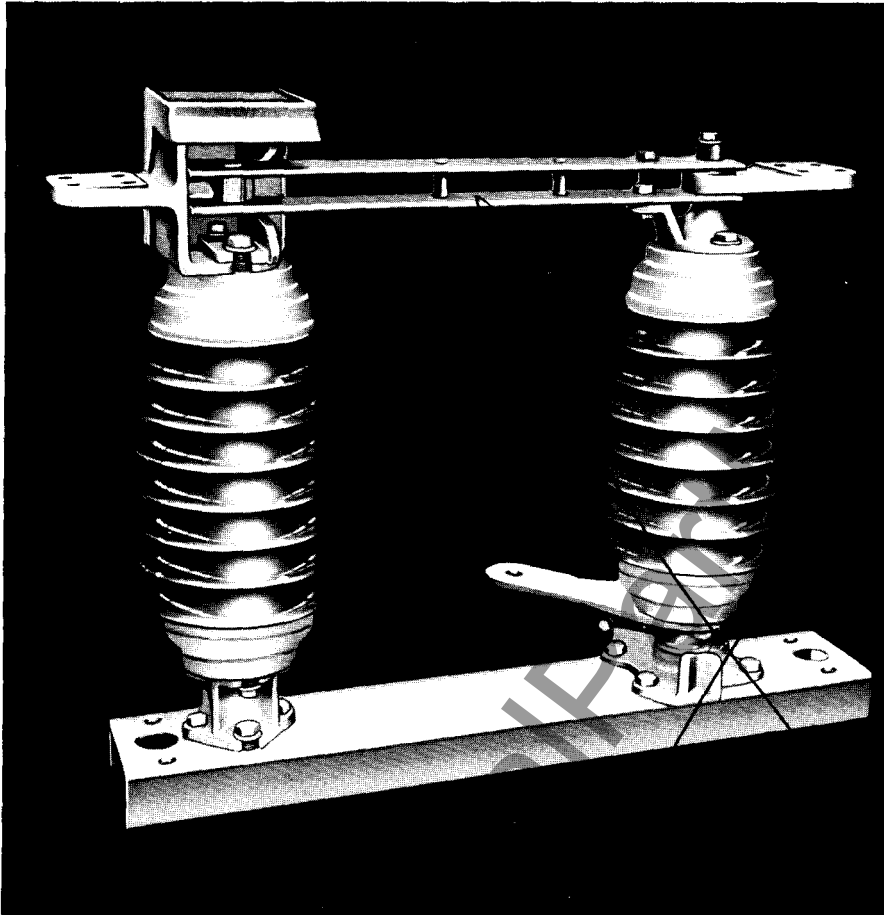


Westinghouse



Type SRD-3 Outdoor Disconnecting Switch

3 Pole Group Operated
7.2 KV to 23 KV 600 and 1200 Amperes



Application

The type SRD-3 sidebreak outdoor disconnecting switches can be applied for any standard disconnect switch application. The SRD-3 utilizes the 3 inch bolt circle insulators and can be obtained with either cap and pin or station post insulators. The SRD-3 is a 3 pole group operated switch that can be furnished with either manual or motor operating mechanisms.

Advantages

Silver plated copper alloy stationary break-jaw contact.

Hard-drawn copper blade.

Silver to copper hinge contact.

Stainless steel contact pressure springs for hinge and break-jaw contacts.

One piece blade guide and closed position stop.

Protective ice shield for break-jaw contact.

Clockwise or counter-clockwise operation.

Nylon rotating insulator support bearing.

Rotating insulator adjustable open position stop.

Galvanized steel channel base.

NEMA terminal pads (2-hole, 600 amp; 4-hole, 1200 amp)

3 inch B.C. insulators, cap and pin or station post.

Suitable for horizontal upright, vertical or inverted mounting.

Type SRD-3 Outdoor Disconnecting Switch

3 Pole Group Operated
7.2 KV to 23 KV 600 and 1200 Amperes

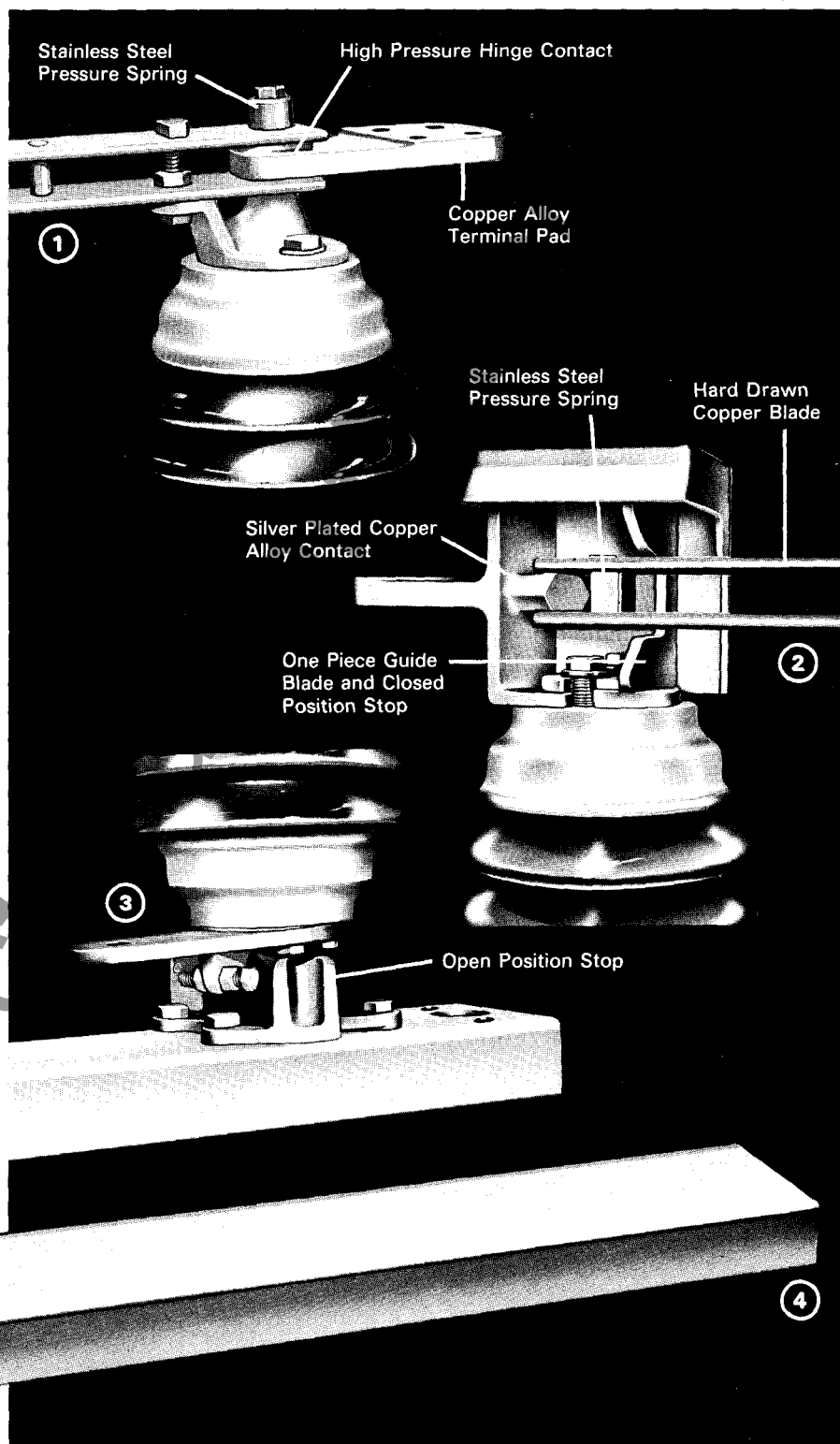
Design Features

① Hinge contact assembly is a high pressure contact with pressure maintained by a stainless steel spring. Silver to copper contact surfaces are self cleaning due to relative motion of blade to terminal pad casting during operation of the switch.

② High pressure break-jaw contact with stainless steel pressure spring. Blade is held in proper alignment with one piece guide and closed position blade stop. Wiping action, both closing and opening, provides ideal silver to copper current transfer contact. Contacts are protected from ice build up by an aluminum ice shield. The blade stop and ice shield can be reversed for clockwise or counter-clockwise operation of the switch.

③ Rotating insulator bearing and stop assembly. Nylon bearings are provided for maintenance-free operation requiring no lubrication. A stop is provided for the switch in the open position.

④ A rigid galvanized steel channel base is provided to insure proper alignment and operation of switch. The base can be provided to meet the requirements of either substation structure or wood pole mounting.

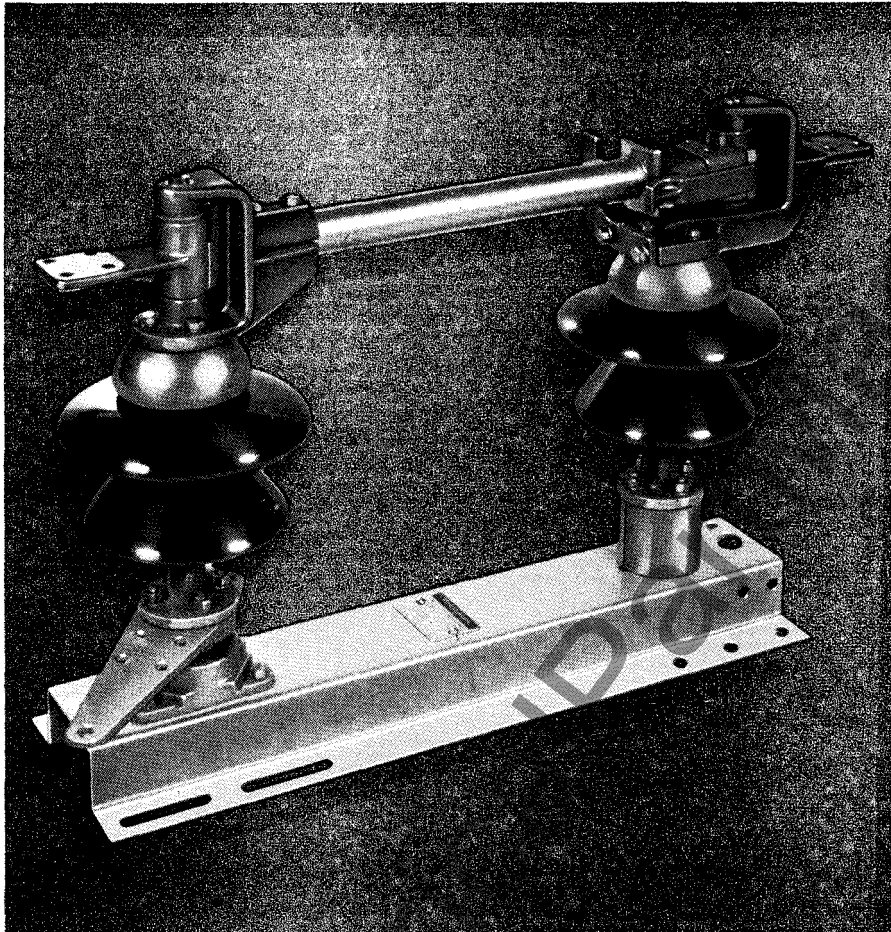


Westinghouse



Type RL-2 Outdoor Disconnecting Switch

3 Pole Group Operated
7.2 KV to 69 KV 600 and 1200 Amperes



Application

Type RL-2 Sidebreak outdoor switches are applicable to locations where insufficient overhead space is available for the vertical break type of switch. These switches can be used for isolating circuit breakers, lightning arresters, or as line sectionalizing switches.

The RL-2 switches have a 600 and 1200 ampere continuous current capacity with a 40,000 and 61,000 ampere momentary rating and are available in voltage ratings from 7.2 KV to 69.0 KV.

This type of switch is normally furnished as a three pole gang operated switch with a manual or motor operating mechanism for horizontal, vertical, or inverted positions. The RL-2 also utilizes the 3 inch bolt circle insulators cap and pin or station post.

Advantages

Teflon coated bushings in live side bearings.

One piece cast copper alloy break jaw contact.

High conductivity copper blade with copper alloy contact tips.

Enclosed silver plated spring copper alloy corrugated pivotal contact sleeve.

Enclosed biasing spring for holding break jaw in open position when switch is open.

Clockwise or counter-clockwise operation of switch.

Rotating insulator support bearing is weather sealed and requires no lubricant.

Positive blade stop in closed position.

NEMA 4 hole terminal pads.

3 inch BC insulators, cap and pin or station post.

Galvanized formed steel base.

Suitable for horizontal, vertical, and inverted positions.

Further Information

Prices: Price List 36-123

Technical Information:

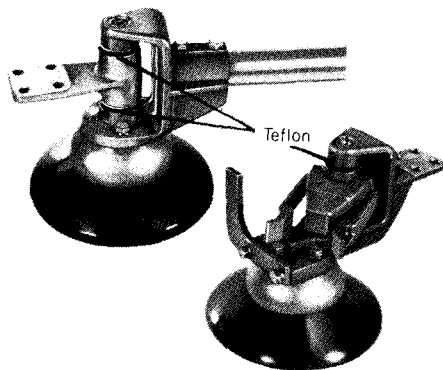
Technical Certification Sheet 36-173

Type RL-2 Outdoor Disconnecting Switch

3 Pole Group Operated
7.2 KV to 69 KV 600 and 1200 Amperes

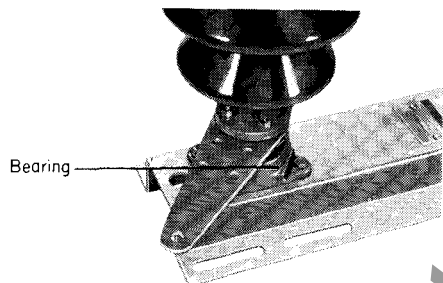
Design Features

Teflon coated bearing surfaces

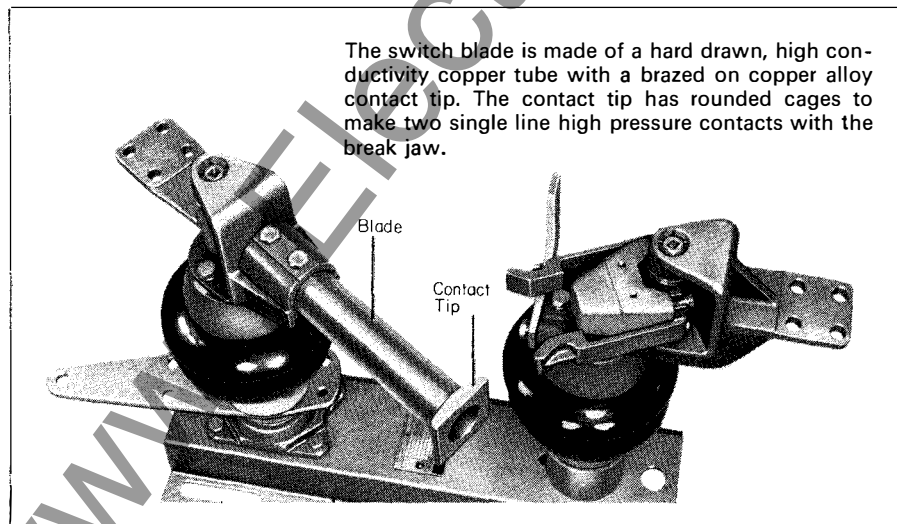


The use of TEFLON on the bushings of the live side bearings provides long life, low friction operation, and eliminating of all lubricants.

The bearings under the rotating insulator stack are stainless steel balls in bronze racks. They are weather sealed and require no lubricants.

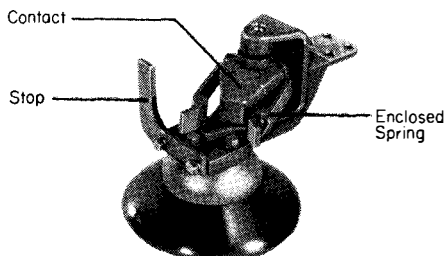


Switch Blade



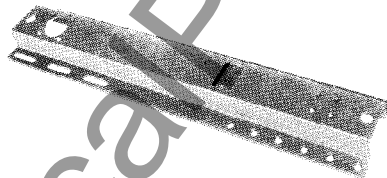
The switch blade is made of a hard drawn, high conductivity copper tube with a brazed on copper alloy contact tip. The contact tip has rounded cages to make two single line high pressure contacts with the break jaw.

Break Jaw Contacts



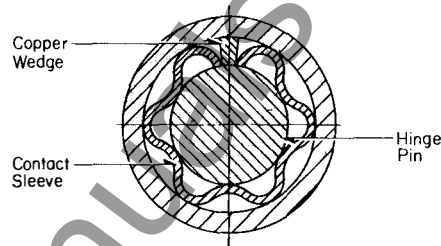
The break jaws consist of a single piece beryllium cobalt copper casting to provide high pressure line contact with the blade tip. The break jaw is assembled integrally with a brass casting enclosing a biasing spring to hold the break jaw contact in the open position when the switch blade is open. A stop prevents movement of the break jaw assembly beyond the "in line" position when the switch is closed. This stop, in turn, can be located on either side of break jaw to provide right and left hand swinging of the blade.

Base



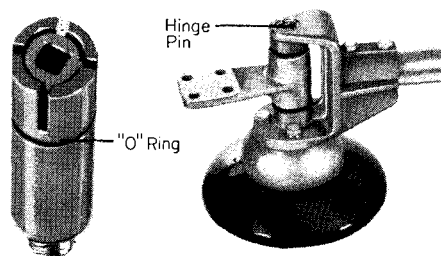
The switch base is made of formed galvanized steel that is drilled and slotted to meet the mounting requirements for the majority of substation structures and poles.

Current Transfer Contact



Current transfer from the swing terminal on the hinge end to the blade and from the blade to the break jaw and break jaw casting is accomplished in this manner. Assembled within the machined hinge and break jaw castings is a silver plated corrugated zirconium copper spring type contact sleeve. The copper hinge pin having a slight taper on the bottom is inserted into the casting containing the contact sleeve. The pin when fully inserted presses against the inner contoured edges forcing the outer contoured edges against the inner machined portion of the casting assuring maximum contact.

Weather Sealed



The upper portion of the hinge pin contains an "O Ring" made of Buna 'N', a natural rubber ring that keeps the contact surfaces sealed from the atmosphere.

The hinge pin when fully inserted into the hinge and break jaw castings is maintained in this position by a tapered brass plug screwed into the slotted end of the hinge pin.

Operation

The RL-2 is a three pole gang operated switch that employs the torsional operating type of mechanism. The three pole units are joined together with interphase pipe to operate simultaneously. The torsional mechanism transmits force by rotation of the vertical operating pipe. The torque that is required to rotate the vertical pipe is applied by the operator through a swing handle attached to the vertical pipe. The type of mechanism, direct or offset, is determined by the type of structure on which the switch is to be mounted.

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