GE
Grid Solutions

S3CD

Double Side Break Disconnect Switch From 72.5 kV to 550 kV

GE's disconnectors are the result of over 75 years of experience in developing high voltage switches that have proven their reliability in the scorching climates of Arizona (USA), Australia and Sudan, in the extremely cold territories of Canada, Russia and Sweden, in the tropical weather of Panama, Indonesia, Malaysia and Venezuela and in regions with intense seismic activity such as Chile and California (USA).

Designed for Reliability

The S3CD is a rugged performer even in the most adverse operating conditions including high winds and heavy ice and is always stable in the closed position during short circuits. The S3CD is a double side break disconnect switch, on which the center insulator rotates to open and close the switch. It is best suited for applications in which low vertical clearance prohibits the use of other disconnect switches. Both terminal pads are rigid and well supported which permit post insulators and additional space savings - key advantages when designing your substation.

The S3CD blades are extra heavy, one piece, tubular aluminum with replaceable silver-plated copper contacts at each end. A galvanized structural steel channel base supports the insulators and the live parts assuring a high strength and rigid design. The center insulator stack rotates on weather sealed, greaseless rotor bearings on which no maintenance is required.

Performance

Contact pressure is applied to the reverse loop copper jaw fingers by stainless steel springs which are insulated at one end, eliminating any possibility of annealing the springs due to their carrying current. Jaw contact pressure is increased as current rises due to the reverse loop finger design. A heavy compression spring holds the blade contact ends in an angular position, preventing any interference as the contacts enter in the jaw. Thanks to its specific design, the operating torque is independent from the disconnect switch size, ensuring smooth operation up to 550 kV.

Quality

GE is one of the world's largest manufacturers of disconnect switches with units installed in more than 130 countries. Their design principles, the technical know-how and experience of GE's experts and the careful selection of suppliers to ensure that only top quality materials are used during production ensure an excellent life cycle cost.

Key Benefits

- Proven reliability, high performance
- Flexibility
- Reduced phase-to-phase distance
- Built-in or retro-fitted earthing switches
- Built-in arc restrictors available
- Virtually maintenance free
- Easy start-up and commissioning
- Designed for high current performance up to 6,000 A.

Imagination at work

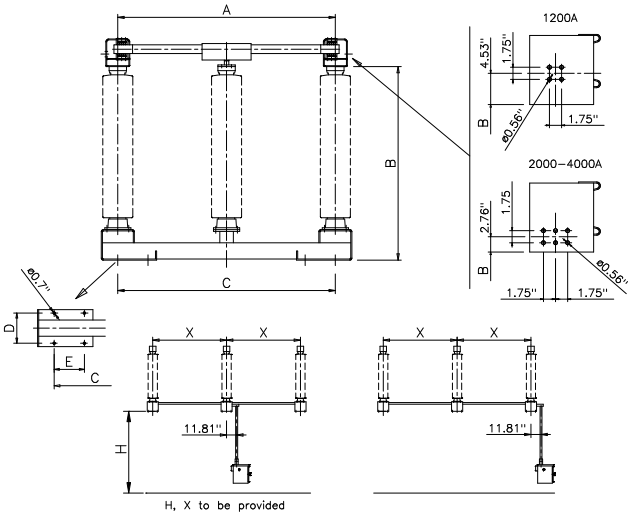
Certification

All GE's disconnector manufacturing sites worldwide are certified according to ISO 9001, ISO 14001 and OHSAS 18001. GE designs, manufactures, tests and delivers its disconnectors in accordance with the latest ANSI and IEC standards, as well as GB Chinese national standards.

Installation and Maintenance

The S3CD does not require any special tools to be adjusted and is recognised worldwide as an easy to install and adjust disconnect switch.

Thanks to its self-lubricating or lifetime greased parts and corrosion free materials, the S3CD is virtually maintenance free.



Customised layouts available upon request.

Phase-to-phase distance defined by substation layout.

Technical Data (ANSI)*

Rated voltage kV	Rated current A / Short time current kA	BIL kV	A inches	B inches	C inches	D inches
72.5	6000 / 80	350	3' 3¼"	3' 7"	3' 3¼"	8¾"
123	6000 / 80	550	4' 11"	4' 10"	4' 11"	8¾"
145	6000 / 80	650	5' 10¾"	5' 7¾"	5' 10¾"	10¾"
170	6000 / 80	750	6' 6¾"	6' 3¾"	6' 6¾"	10¾"
245	6000 / 80	1050	9' 2¼"	8' 9¾"	9' 2¼"	1' 1½"
362	6000 / 80	1300	12' 5½"	10' 11½"	12' 5½"	1' 1½"
550	6000 / 80	1800	18'	14' 3¾"	16' 4¾"	1' 1½"

* IEC ratings also available

For more information please contact
GE
Grid Solutions

Worldwide Contact Center

Web: www.GEGridSolutions.com/contact
Phone: +44 (0) 1785 250 070

GEGridSolutions.com

Imagination at work