

S3CD

Double-Side Break Disconnecter From 145 kV to 550 kV

GE Vernova'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 adverse operating conditions such as high winds and heavy ice, and is always stable in the close position during short circuits. The S3CD is a double-side break disconnector on which the center insulator rotates to open and close the switch. It is particularly suited for applications in which low vertical clearance prohibits the use of other disconnectors. Both terminal pads are rigid and well supported which allows post insulators and additional space savings. The blades are extra heavy, one piece, tubular aluminium 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, rigid design. The center insulator stack rotates on weather-sealed, greaseless rotor bearings on which no maintenance is required.

GE Vernova's experts are pleased to propose customized solutions including vertical, underhung and phase-over-phase.

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. Due to its specific design, the operating torque is independent from the disconnector size ensuring smooth operation up to 550 kV.

Quality

GE Vernova is one of the world's largest manufacturers of disconnectors with units installed in more than 130 countries. Our design principles, the technical expertise and experience of our experts, and the careful selection of our suppliers ensures that top quality materials are used, providing 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

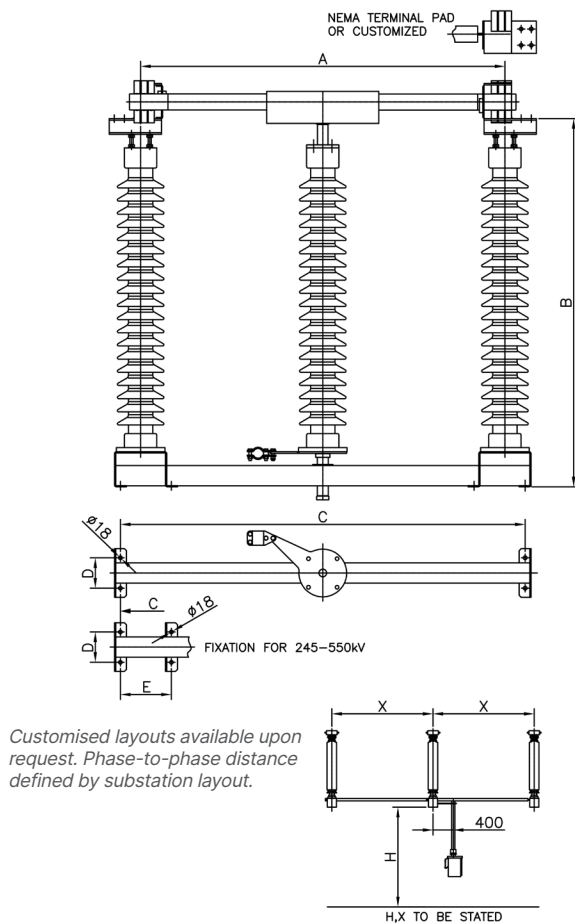


GE VERNOVA

Technical Data (IEC) - Dimensions

Rated voltage kV	Rated current A/ Short time current kA**	BIL kV	A mm	B mm	C mm	D mm	E mm
145	3,150 / 63	650	1,800	1,816	2,000	150	
170	3,150 / 63	750	2,000	2,038	2,200	170	
245R	3,150 / 63	950	2,400	2,472	2,600	220	270
245	3,150 / 63	1,050	2,800	2,672	3,000	220	270
300	3,150 / 63	1,050	3,200	3,022	3,400	220	270
362	3,150 / 63	1,175	3,800	3,338	4,050	270	340
420	3,150 / 63	1,425	4,200	3,788	4,450	270	340
550	3,150 / 63	1,550	5,000	4,463	5,250	270	340

** Also available in 4,000 and 5,000 A versions up to 200 kA peak



Certification

All GE Vernova's disconnecter manufacturing sites worldwide are certified according to ISO 9001, ISO 14001 and OHSAS 18001. GE Vernova 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 disconnecter.

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



For more information, visit
governova.com/grid-solutions