

S2DA

Center Break Disconnector From 72.5 kV to 550 kV

The Real Performer in Harsh Conditions

GE Vernovas' 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).

The S2DA disconnector is one of the most commonly used types in the world thanks to its simple, efficient design. It is a rugged performer even in the most adverse operating conditions.

Performance

The S2DA is reliable in high winds and heavy ice and always stable in the closed position during short circuits. A galvanised structural steel channel base supports the insulators and live parts, assuring a high strength, rigid design. The two insulator stacks rotate on weather-sealed, greaseless, maintenance-free rotor bearings and the blades are made of extra-heavy extruded aluminium with replaceable silver-plated copper contacts in the opening point.

Permanent contact pressure is guaranteed by the special profile design. During a short circuit, the electro-dynamic attractive forces on the two C-profiles cause the female arm to self-close on the male contact.

Flexible Technology

The special flexible connections have been designed to guarantee low maintenance, inspection-free and long-term operation. Less contacts result in less operational problems. The hinge contacts do not need sliding or rotary contacts as the current travels a continuous path facilitated by a laminated aluminum flex that is welded and bolted to the blade and the high voltage connection.

Customization

GE Vernova experts are pleased to propose customized solutions including parallel, in-line, diagonal, vertical, underhung and phase-over-phase solutions, bearing in mind that the phase-to-phase distance is higher than for other types of disconnectors.



Quality

GE Vernova is one of the leading, global suppliers of disconnectors. The design principles, the technical know-how and experience of the GE Vernova experts and the careful selection of suppliers ensure that only top quality materials are used during production, ensure an excellent life cycle cost.

Key Benefits

- Cost effective
- No sliding contacts
- High short circuit carrying capacity
- Low operating torque
- Built-in or retro-fitted earthing switches
- Arc restrictors for line charging and transformer magnetising currents
- Reduced maintenance
- Easy start-up and commissioning



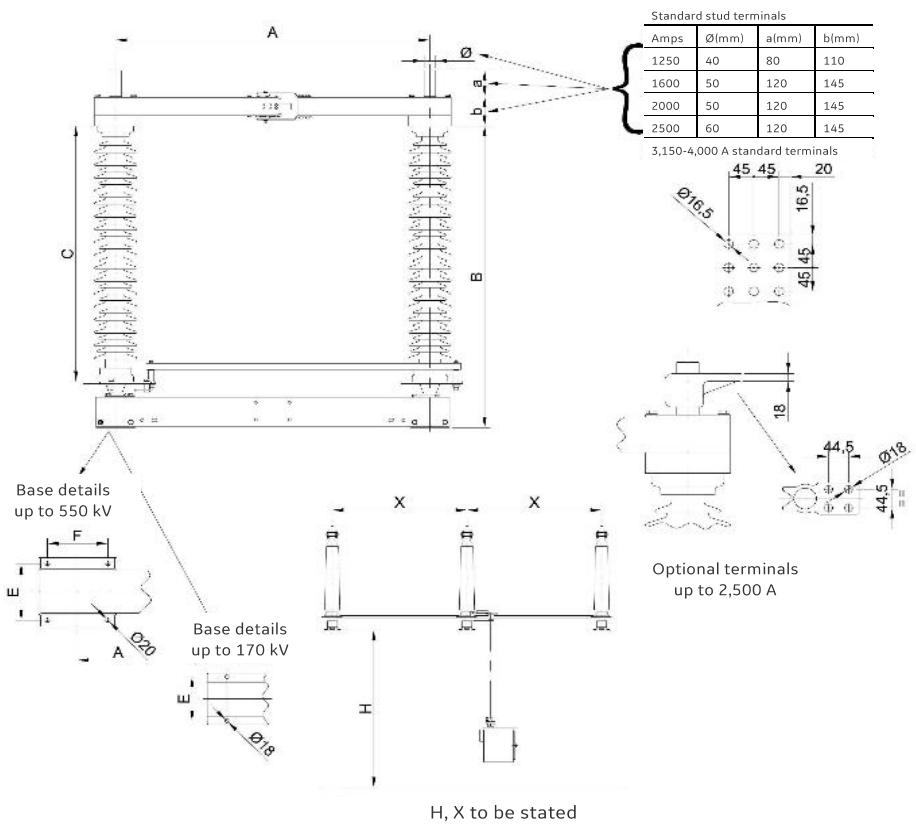
Certification

All GE Vernova disconnector 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 IEEE/ANSI and IEC standards, as well as GB Chinese national standards.

Installation and Maintenance

The S2DA does not require any special tools to be adjusted and is recognised worldwide as an easy to install and adjust disconnector. Thanks to its self-lubricating or lifetime greased parts and corrosion free materials, the S2DA is virtually maintenance free.



Customised layouts available upon request. Phase-to-phase distance defined by substation layout.

Technical Data (IEC)

RATED VOLTAGE kV	RATED CURRENT A / SHORT TIME CURRENT kA	BIL kV	A mm	B mm	C mm	ExF mm
72.5	3,150 / 63	325	1,000	960	770	150
100	4,000 / 63	420	1,400	1,240	1,020	210
123	4,000 / 63	550	1,400	1,440	1,220	210
145	4,000 / 63	650	1,600	1,720	1,500	210
170	4,000 / 63	750	1,900	1,920	1,700	210
245R	4,000 / 63	950	2,500	2,375	2,100	300×150
245	4,000 / 63	1,050	2,500	2,575	2,300	300×150
300	4,000 / 63	1,050	3,000	2,925	2,650	300×150
362	4,000 / 63	1,175	3,500	3,300	2,900	270×270
420	4,000 / 63	1,425	4,200	3,750	3,350	270×270
550	4,000 / 63	1,550	4,700	4,400	4,000	270×270

For more information, visit
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