



Pantograph Disconnecter From 72.5 kV to 550 kV

Backed by over 75 years of engineering excellence, GE Vernova's SX pantograph disconnectors deliver proven reliability in the world's most challenging environments—from extreme desert heat to arctic cold and high-seismic zones.

Designed for Reliability

The SX disconnecter is a rugged performer even in very adverse operating conditions. The SX is reliable in high winds and heavy ice and always stable in the closed position during short circuits. The SX blades are extra heavy, tubular aluminium with replaceable silver-plated copper contacts. A galvanised structural steel base supports the insulators and the live parts, ensuring a high-strength, rigid design. All counter-balancing springs and bearings are isolated from the main path.

Space Saving Design

The SX is a double scissor aluminium disconnecter on which the pantographic arms connect the lower busbar to the upper one. By using vertical rather than horizontal separation, this design offers substation designers the possibility to reduce space requirements by as much as 30%.

Performance

In the open position, the blade sections are folded upon themselves thus offering a maximum blade dimension slightly greater than the open gap dimension. The double scissor design ensures low current density on the arms and the highest mechanical strength.

When engaging the fixed contact, the four arms clamp firmly on the contact bar. The blades are counter-balanced so that only friction forces must be overcome when operating the switch. The streamlined contours reduce RIV and corona effects.

Safety

Clear busbar routing for simplified and safe operation.

Intelligent Asset Monitoring for the Modern Grid

The SX pantograph disconnecter is now available with advanced digital-native intelligence. By integrating precision sensors directly into the live parts and insulators, the SX provides real-time monitoring of critical operational parameters, including contact temperature, switch position via 3-axis inclinometers, and insulator leakage current. This data is processed through a cybersecure central unit and can be correlated with local weather station inputs to provide a comprehensive view of asset health. This shift from time-based to condition-based maintenance empowers operators to mitigate risks, optimize maintenance schedules, and significantly increase substation availability—ensuring your grid infrastructure is ready for the demands of a digital future.



Accelerating grid decarbonization

- SX disconnecters are part of our GRiDEA portfolio of solutions designed to accelerate the decarbonization of the grid
- Significant reduction of raw material consumption using up to 70% recycled aluminum and saving up to 240 kg (45%) of steel/copper/aluminum
- Integrated smart monitoring to optimize maintenance and asset life-cycle efficiency
- Reduced substation space requirements (up to -30%)

Quality

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

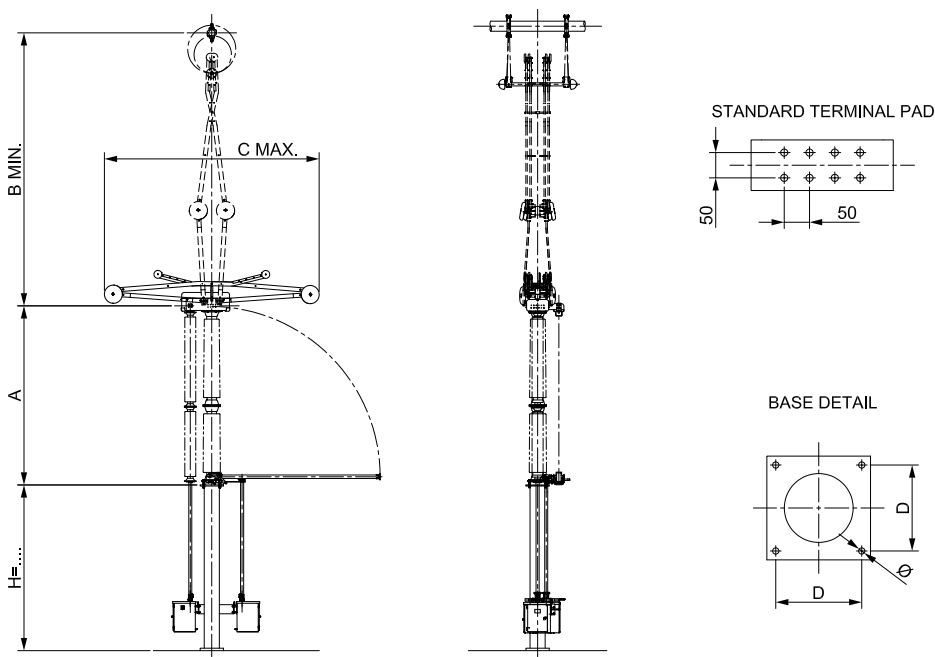
Customer Benefits

- Reduced environmental impact
- Clear conducting routing for safety
- Rigid or flex busbars for flexibility
- Double scissor design for high rigidity
- Built-in earthing switches available
- Virtually maintenance free
- Easy start-up and commissioning



Technical Data (IEC)

RATED VOLTAGE kV	RATED CURRENT A/SHORT TIME CURRENT kA UP TO	BIL kV	A mm	B mm	C mm	D mm	Ø mm
72.5	4,000 / 63	325	980	2,000	1,400	320	22
100	4,000 / 63	450	1,230	2,200	1,500	320	22
123	4,000 / 63	550	1,430	2,500	1,600	320	22
145	4,000 / 63	650	1,710	3,000	2,000	320	22
170	4,000 / 63	750	1,910	3,000	2,000	320	22
245	4,000 / 63	1,050	2,510	4,100	2,950	320	26
300	4,000 / 63	1,050	2,860	4,300	3,050	320	26
362	5,000 / 80	1,175	2,860	4,800	3,500	320	26
420	5,000 / 80	1,425	3,550	5,600	4,100	320	26
550	5,000 / 80	1,550	4,200	5,800	4,300	320	26



Customised layouts available upon request.

Phase-to-phase distance defined by substation layout.

Certification

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

Installation Flexibility

The SX can be installed either directly below and in line with the overhead bus, or on the diagonal at the point of bus crossover. The terminal pads can be arranged so that the lower bus is in line or perpendicular to the switch. The SX is suitable for both strain and tubular busbars.

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

IEC is a registered trademark of Commission Electrotechnique Internationale. IEEE is a registered trademark of the Institute of Electrical Electronics Engineers, Inc.

GE Vernova reserves the right to make changes to specifications of products described at any time without notice and without obligation to notify any person of such changes.

© 2026 GE Vernova and/or its affiliates. All rights reserved. GE and the GE Monogram are trademarks of General Electric Company used under trademark license.



GE VERNOVA

GEA-N50121
English
260819