When it comes to medium-voltage power distribution, Siemens has developed a wide range of products and solutions, based on experience, innovation, and reliability.

Siemens has a proven track record for delivering gas-insulated medium-voltage switchgear (GIS) for wind farm applications. Fixed-mounted circuit-breaker switchgear NXPLUS C Wind is a factory-assembled, type-tested, metal-enclosed, SF₆-insulated switchgear for single-busbar applications for indoor installation.

Offshore wind power in particular faces many challenges. Conditions during installation, operation, and maintenance may be harsh, and the product requirements are high. From one of the world’s first offshore wind farms more than ten years ago to today’s largest wind farms, our customers take full advantage of the gas-insulated switchgear technology – with a compact, climate-independent, and maintenance-free design.

There is one thing operators just have to rely on: safe and reliable operation of the wind farm's power grid. Around-the-clock.

Wind turbines in remote areas or in offshore wind farms are often hard to access. In case of harsh weather conditions or rough seas, it can take up to several days to fix a fault on a wind turbine in an offshore wind farm. This is why switchgear for wind turbines must be particularly reliable. Gas-insulated switchgear from Siemens has been in operation in the first offshore wind parks for more than ten years, at the Middelgrunden, Horns Rev, Redsand, and Arklow Bay wind farms, for example. Meanwhile, Siemens has delivered more than 11,000 switchgear panels for wind farm applications.

NXPLUS C switchgear from Siemens is based on more than 30 years of experience with gas-insulated switchgear technology and the use of proven components.

Your advantages
- Independent of environment and climate
- Maintenance-free
- Compact
- Safe for operators
- Cost-efficient
- Ecological
- Reliable and safe operation

sonsxplusc
NXPLUS C Wind Medium-Voltage Switchgear –
Product range (The following selection is not complete)

Circuit-breaker panel
Ring-main / Switch-disconnector panel
Disconnector panel

Performance features
- Type-tested according to IEC 62271-200
- Sealed pressure system with SF₆ filling for the entire service life
- Safe-to-touch enclosure and standardized connections for plug-in cable terminations
- 1-pole insulated and screened busbar
- 3-pole, gas-insulated switchgear vessels with three-position switch and circuit-breaker
- Operating mechanism and instrument transformers are located outside the switchgear vessel and are easily accessible
- Different optionally solutions or special applications available
- Metal-enclosed, partition class PM
- Loss of service continuity category for switchgear: LSC 2
- Internal arc classification for:
  - Wall-standing arrangement: IAC A FL 25 kA, 1 s
  - Free-standing arrangement: IAC A FLR 25 kA, 1 s

Technical data of NXPLUS C Wind

<table>
<thead>
<tr>
<th>Rated</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>up to 36/38 kV</td>
</tr>
<tr>
<td>Frequency</td>
<td>Hz 50/60</td>
</tr>
<tr>
<td>Short-duration power-frequency withstand voltage</td>
<td>kV 70</td>
</tr>
<tr>
<td>Lightning impulse withstand voltage</td>
<td>kV 170</td>
</tr>
<tr>
<td>Short-circuit breaking current</td>
<td>max. kA 25</td>
</tr>
<tr>
<td>Short-time withstand current, 1 s</td>
<td>max. kA 25</td>
</tr>
<tr>
<td>Short-time withstand current, 3 s</td>
<td>max. kA 20</td>
</tr>
<tr>
<td>Short-circuit making current</td>
<td>max. kA 63/65</td>
</tr>
<tr>
<td>Peak withstand current</td>
<td>max. kA 63/65</td>
</tr>
<tr>
<td>Normal current for busbar</td>
<td>max. A 1,000</td>
</tr>
<tr>
<td>Normal current for circuit-breaker panel</td>
<td>max. A 800</td>
</tr>
<tr>
<td>Normal current for disconnector panel</td>
<td>max. A 1,000</td>
</tr>
<tr>
<td>Normal current for ring-main panel</td>
<td>max. A 630</td>
</tr>
</tbody>
</table>

*) Test voltage

Dimensions of NXPLUS C Wind

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Dimensions in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (spacing) W</td>
<td>Circuit-breaker panel, Disconnector panel, switch-disconnector panel, and ring-main panel</td>
</tr>
<tr>
<td>H</td>
<td>1,900</td>
</tr>
<tr>
<td>D</td>
<td>1,000</td>
</tr>
</tbody>
</table>

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