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ZX1.2 - Offshore Gas-insulated medium voltage switchgear
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The connection is what counts
Offshore wind farms feed their power into the grid via submarine cables, and the switchgear in the tower has to be optimally suitable for their connection.
Inner cone sockets are available for the power ratings of today and tomorrow.

Advantages
- Very high cable termination point
- Inner cone plug connector system
- Connection of submarine cables with cross-sections up to 1600 mm²
- Hermetically sealed with IP65 protection for the high voltage section
- Complete remote control capability
- Rated currents 1250 A to 2500 A
- Prepared for all protection systems
- Suitable for connection of wind turbines with output even greater than 5 MW
- Suitable for operation on open or closed ring networks
- Vacuum circuit-breakers for reliable and maintenance-free connection of the wind turbine to the open or closed ring
- Optional circuit-breakers at both ends of the cable links between the wind turbines facilitate selective isolation in the case of a cable fault and thus maximum availability of generated power.

ZX1.2 with its standard panels and special variants provides a graded concept for optimum design of wind turbine network connections by submarine cable and full compliance with the individual safety needs of the operators.
The range extends from cost-effective direct connection (1) to the closed or open ring, through a compromise solution (2) to the enhanced safety connection using circuit-breakers (3).

Advantages
- Very high cable termination point
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1 Pressure relief disk
2 Plasma diverter
3 Vacuum circuit-breaker
4 Test socket
5 Measuring sockets for capacitive voltage indicator system
6 Cable socket
7 Cable plug
8 Ring-type current transformer
9 Pressure relief duct
10 Busbars
11 Three-position disconnector
12 Three-position disconnector operating mechanism
13 Circuit-breaker operating mechanism
14 Multifunctional protection and control unit
15 Density sensor

Technical data ZX1.2

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>36 kV</td>
</tr>
<tr>
<td>Test voltages</td>
<td>70/170 kV</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Rated busbar current</td>
<td>1250 A, 2500 A</td>
</tr>
<tr>
<td>Rated current of feeder</td>
<td>1250 A, 2500 A</td>
</tr>
<tr>
<td>Rated peak withstand current</td>
<td>80 kA</td>
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<tr>
<td>Rated short-time current 3 s</td>
<td>31.5 kA</td>
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Inner cone cable plug system
- Size 2 for cross-sections up to 300 mm²
- Size 3 for cross-sections up to 630 mm²
- Size 4 for cross-sections up to 1600 mm²
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Advantages
- Very high cable termination point
- Inner cone plug connector system
- Connection of submarine cables with cross-sections up to 1600 mm²
- Hermetically sealed with IP67 protection for the high voltage section
- Complete remote control capability
- Rated currents 1250 A to 2500 A
- Prepared for all protection systems
- Suitable for connection of wind turbines with output even greater than 5 MW
- Suitable for operation on open or closed ring networks
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Inner cone cable plug system
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