LeanGear ZS9 is an arc-proof air-insulated switchgear designed to meet space requirements and ratings of lighter electrical distribution grids.

It offers optimal safety and reliability standards, consistent with ABB’s UniGear range of switchgear. With a proven robustness and flexibility, the LeanGear ZS9 is tested for standard IEC ambient conditions.

**Main benefits**
- **Safety:** Increased safety level assured by integrated ducting system against effects of internal arc
- **Security:** Comprehensive interlocks provide optimum protection for both installation and personnel
- **Space:** Maximum functionality on compact design with reduced footprint and height
- **Service:** Ease of service and operation by personnel as switchgear and cable termination height are ergonomically designed
- **Speed:** Minimal service downtime attributable to modular circuit breaker design and built-in features that eliminate use of special handling tools
- **Strength:** Robust panel structure that is proven against external mechanical impacts

**Main features**
- Type-tested to IEC standard by STL lab
- Internal arc classification IAC AFLR 25kA 1s
- Classified as LSC2B, PM
- CB racking with closed door
- Cable termination height of 700 mm
- IP4X degree of protection
- Extensible on both sides
- Integrate with ABB Relion® series relay for protection and control

VInd circuit breaker
- Floor rolling circuit breaker
- Suitable for E2, M2 and C2 endurance class application
- Integral spring charging handle
- In-built mechanical anti-pumping device
**Technical data**

<table>
<thead>
<tr>
<th>Switchgear</th>
<th>LeanGear ZS9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage [kV]</td>
<td>12</td>
</tr>
<tr>
<td>Rated power frequency withstand voltage [kV 1 min]</td>
<td>28/38</td>
</tr>
<tr>
<td>Rated lightning impulse withstand voltage [kV]</td>
<td>75/95</td>
</tr>
<tr>
<td>Rated frequency [Hz]</td>
<td>50</td>
</tr>
<tr>
<td>Rated short time withstand current [kA 3 s]</td>
<td>25</td>
</tr>
<tr>
<td>Peak current [kA]</td>
<td>66</td>
</tr>
<tr>
<td>Rated main busbar current (40°C) [A]</td>
<td>800/1250</td>
</tr>
<tr>
<td>Rated branch connection current (40°C) [A]</td>
<td>630/800/1250</td>
</tr>
<tr>
<td>Internal arc withstand current [kA 1 s]</td>
<td>25</td>
</tr>
<tr>
<td>Internal arc classification to IEC 62271-200</td>
<td>IAC AFLR</td>
</tr>
<tr>
<td>Overall dimensions of basic cubicles</td>
<td></td>
</tr>
<tr>
<td>H[mm]</td>
<td>1755</td>
</tr>
<tr>
<td>W[mm]</td>
<td>600</td>
</tr>
<tr>
<td>D[mm]</td>
<td>1560...2070</td>
</tr>
<tr>
<td>Degree of protection (internal and external)</td>
<td>IP4X</td>
</tr>
<tr>
<td>Cable connection height [mm]</td>
<td>700</td>
</tr>
<tr>
<td>Approximate weight [kg]</td>
<td>600</td>
</tr>
</tbody>
</table>

1) Change according to the configuration

2) Higher rating up to IP42 external degree of protection available of request

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**Single line diagram of typical units**

- IF – Incoming/outgoing feeder
- IF – Incoming feeder with measurements (Fixed fuses)
- BT – Bus coupler
- R – Bus riser
- RM – Bus riser with measurements
- M – Measurements

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