SafeGear® provides maximum safety and operational reliability during arcing events. Arc-resistant switchgear offers operators and equipment the highest standard of protection during an arc fault.

- Vents and flaps are located on top of the enclosure to release the pressure into the plenum. This significantly reduces operator risk during maintenance and operation of the equipment.
- SafeGear’s level of arc resistance helps protect workers from the catastrophic effects of an internal arc fault, and also protects nearby equipment from collateral damage.
- More than 30 years experience in arc-resistant switchgear.
- First manufacturer of two-high arc resistant switchgear; the ABB design allows for flexibility in configurations and promotes superior safety performance.
- Small arc-resistant footprint allows ABB switchgear to fit into tighter spaces.
- Large arc-resistant viewing window allows the operator to check position and status of circuit breaker without opening the cell door.
- Available in ratings up to 15 kV, 4,000 Amps, 50 KAIC with 0.5s arcing duration.

SafeGear® is an arc-resistant, metal-clad switchgear that ensures maximum safety and operational reliability during arcing events that may expel hazardous materials and hot gases.

Types of arc-resistant gear
- Type 2: provides arc flash protection in front, sides, and rear of switchgear line-up.
- Type 2B: provides arc flash protection as Type 2 plus isolates the LV compartment when the door is open.
- Type 2C: provides arc flash protection as Type 2 plus compartment to compartment protection.

Additional features and options
- Closed door racking.
- Remote breaker racking.
- Single handle, multi-point latch front doors.
- Automatic secondary disconnects.
- REA Relay:
  - Reduce incident energy by up to 80%.
  - Helps meet OSHA, IEEE, NFPA and NEC standards.
  - Can reduce Personal Protective Equipment (PPE) requirements for easier maintenance.
  - Can be used with any manufacturer’s relays and requires no re-programming or setting changes.
<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Unit</th>
<th>5 kV</th>
<th>8.25 kV</th>
<th>15 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated nominal voltages</td>
<td>kV</td>
<td>2.4, 4.16, 4.8</td>
<td>4.8, 6.9, 8.2</td>
<td>6.9, 7.2, 8.4, 11</td>
</tr>
<tr>
<td>Main bus continuous current</td>
<td>A</td>
<td>1200, 2000, 3000, 4000**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short circuit current (rms)</td>
<td>kA</td>
<td>25, 31.5, 40, 50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated frequency</td>
<td>Hz</td>
<td>50, 60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low frequency withstand (rms)</td>
<td>kV</td>
<td>19, 36, 36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impulse level; (BIL, crest)</td>
<td>kV</td>
<td>60, 95, 95</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Ratings given are for service conditions within temperature and altitude limitations as defined by IEEE C37.20.2-2015 metal-clad switchgear standard.
** 4000 A is forced-air cooled.

SafeGear arc-resistant switchgear eliminates the need for costly and cumbersome PPE required for performing normal operating procedures, thereby improving operational efficiency and reducing total cost of ownership.