Power plant owners are concerned with the availability and reliability of their plants. That is why it is crucial to rely on equipment capable of safely interrupting fault conditions while protecting connected equipment and reduce outage periods.

**Advanced Architecture**

FKG generator circuit breakers are equipped with a fully spring-operated mechanism for high reliability, maximum energy stability and low maintenance requirements. This model is also available without enclosure.

**Keep an Eye on your Generator Circuit-Breaker**

The FKG1N figures out optional add-on CBWatch monitoring system (automatic diagnosis) for maintenance on real status of the switchgear.

**Higher Safety**

A true electro-mechanical sequential interlocking system assures a reliable mechanical and electrical coordination for higher safety.

**Components and Single Line Diagram**

1 - Circuit breaker  
2 - Disconnecter  
3 - Earthing switch  
4 - Starting switch  
5 - Capacitors  
6 - ZnO Surge arresters  
7 - Current transformers  
8 - Voltage transformers  
9 - Manual short-circuiting bars

**Technical Data**

- 10,800 A - 120 kA - 50 Hz  
- 10,500 A - 120 kA - 60 Hz

**Key Benefits**

- Utmost reliability of the full spring mechanism  
- CBWatch makes proactive maintenance possible  
- Interrupting chambers with natural cooling system  
- Ideal for large & very large turbines or generators

**Testing and Quality**

- Product in full compliance with IEC/IEEE 62271-37-013 GCB standard  
- Manufacturing ISO 9001 and ISO 14001 certified  
- S.E.I. - S.N.E. and national packing procedures
### Technical Specifications

<table>
<thead>
<tr>
<th></th>
<th>FKG1N</th>
<th>SKG1 Disconnector</th>
<th>MKG1 Earthing Switch</th>
<th>IKG1 Starting Switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated peak withstand current (kApeak)</td>
<td>330</td>
<td>330</td>
<td>330</td>
<td>330</td>
</tr>
<tr>
<td>Rated short time withstand current (kA)</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>100</td>
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<tr>
<td>Rated duration of short-circuit (s)</td>
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<td>3</td>
<td>3</td>
<td>2</td>
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<tr>
<td>Rated insulation level (at sea level) - Phase to earth (kV)</td>
<td>80</td>
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<td>150</td>
<td>150</td>
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<tr>
<td>- Rated power frequency withstand voltage (kV)</td>
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<tr>
<td>- Rated lightning impulse withstand voltage: wave 1.2/50 μs (kVpeak)</td>
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<td>90</td>
<td>165</td>
<td>150</td>
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<tr>
<td>- Rated lightning impulse withstand voltage: wave 1.2/50 μs (kVpeak)</td>
<td>150</td>
<td>165</td>
<td>150</td>
<td>125</td>
</tr>
</tbody>
</table>

### Dimensions

![Diagram of FKG1N AIS Circuit Breaker]

**GE Grid Solutions**

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