

# FKG2M without enclosure



## Generator Circuit Breaker for Power Plants up to 200 MW\*

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.

Specifically developed for the retrofit market, the FKG2M generator circuit breaker without enclosure is the ideal product for power plants up to 200 MW per unit.

### Higher Reliability

The FKG2M generator circuit breaker has a fully spring-operated mechanism, which is well known for its high reliability and low maintenance requirements. With different design possibilities (positioning of spring mechanism and high voltage terminal can be adapted), it is suitable for all your specific adaptations.

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

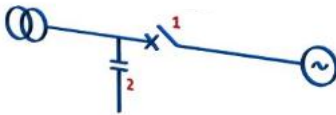
The FKG2M figures out optional add-on CBWatch monitoring system (automatic diagnosis) for maintenance on real status of the switchgear.

### 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 - Capacitors



## Technical Data

- 9,500 A – 80 kA

## Key Benefits

- Utmost reliability of the full spring mechanism
- CBWatch makes proactive maintenance possible
- The FKG2M's flexibility and compactness make it ideal for retrofit projects

## 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

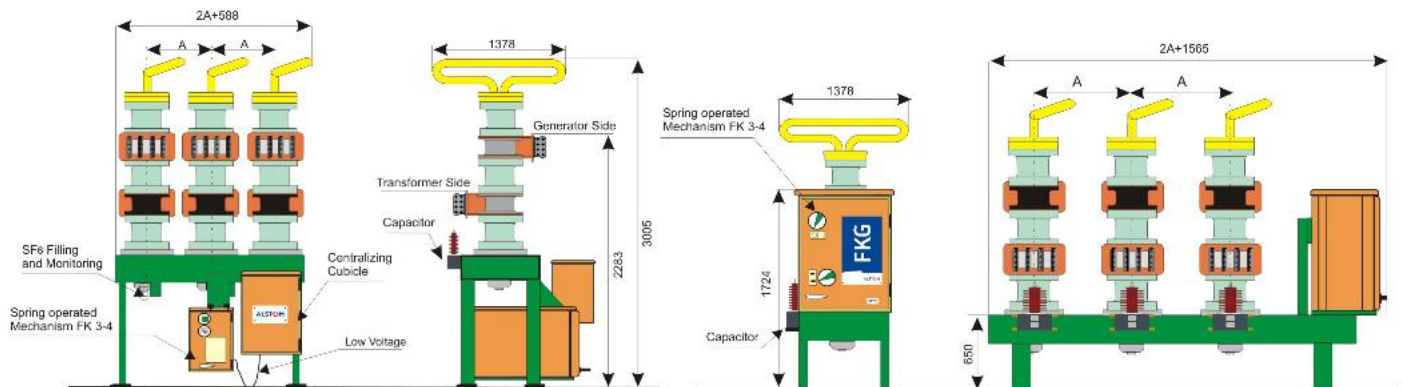
\* Depending upon the power station's specifications, GE may propose an alternative GCB power rating.

## Technical Specifications

## FKG2M Without Enclosure

Rated maximum voltage	kV	17.5	24
Short-circuit breaking current	kA	80	63
Rated out-of-phase breaking current	kA	40	31.5
Rated breaking time	ms		50
Rated closing time	ms		115
Insulating gas			SF <sub>6</sub>
Rated absolute pressure at 20°C	Pre kPa		850
Minimum absolute pressure at 20°C	Pme kPa		710
Location		Indoor / Outdoor (protected)	
Ambient air temperature limits	°C	-25°C/+40°C	
Frequency	Hz	50/60	
Maximum rated normal current with ambient air 40°C	A	up to 9,500	
Phase spacing A with 50 mm step			
- Spring mechanism in frontal position	mm	550 to 1,100	
- Spring mechanism in lateral position	mm	600 to 1,500	
Protection degrees (cubicles)		IP55	
SF6 monitoring by densimeter		3-phase	
Pressure reading		Yes	
Rated peak withstand current	kA peak	220	173
Rated short time withstand current	kA	80	63
Rated duration of short-circuit	s	3	3
Rated insulation level (at sea level) - Phase to earth			
- Rated power frequency withstand voltage	kV	60	
- Rated lightning impulse withstand voltage: wave 1.2/50 μs	kVpeak	125	
Rated insulation level (at sea level) - Across terminals			
- Rated power frequency withstand voltage	kV	60	
- Rated lightning impulse withstand voltage: wave 1.2/50 μs	kVpeak	125	

## Dimensions



For more information please contact  
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### Worldwide Contact Center

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