

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.

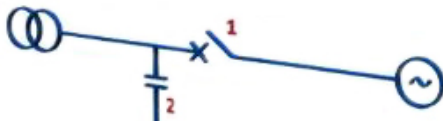
Keep an Eye on your Generator Circuit-Breaker

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



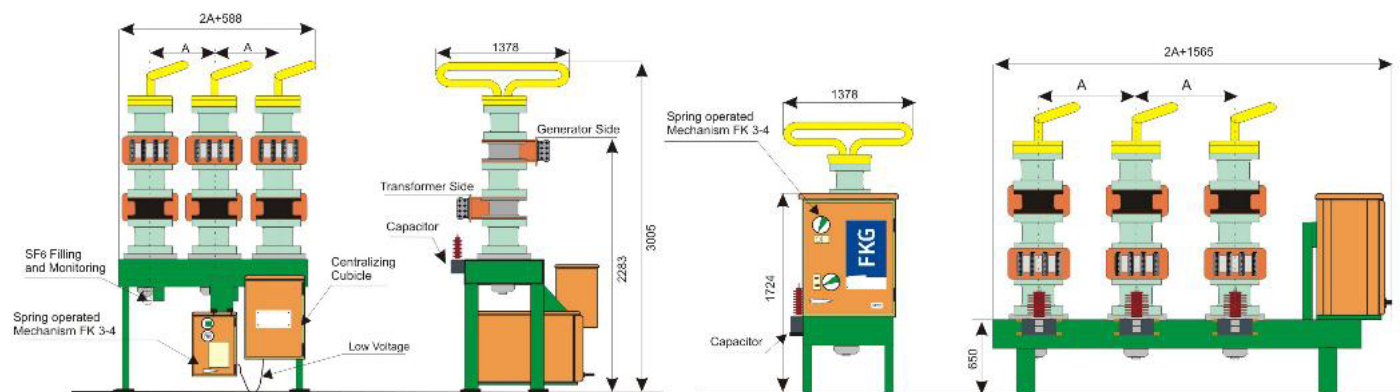
GE VERNOVA

** Depending upon the power station's specifications, GE Vernova 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	ms50		
Rated closing time	ms	115	
Insulating gas	SF ₆		
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	mm mm	550 to 1,100 600 to 1,500	
- Spring mechanism in frontal positon			
- Spring mechanism in lateral positon			
Protection degrees (cubicles)	IP55		
SF ₆ 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	kV kVpeak	60 125	
- Rated power frequency withstand voltage			
- Rated lightning impulse withstand voltage: wave 1.2/50 µs			
Rated insulation level (at sea level) - Across terminals	kV kVpeak	60 125	
- Rated power frequency withstand voltage			
- Rated lightning impulse withstand voltage: wave 1.2/50 µs			

Dimensions



For more information, visit
gevernova.com/grid-solutions

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