



Grid Solutions
a GE and Alstom joint venture

CIRCUIT BREAKERS PRODUCT SOLUTIONS

FKG2S without enclosure

Generator circuit breaker for power plants 50 MW to 150 MW

Specifically developed for the retrofit market, the FKG2S generator circuit breaker without enclosure is the ideal product for power plants up to 150 MW per unit.

Generator circuit breaker 9,500 A – 63 kA

The FKG2S features a fully spring-operated mechanism, well known for its high reliability and low maintenance requirements. With different design possibilities (positioning of spring mechanism and adaptable high voltage terminal), Grid Solutions' FKG2S is suitable for all your specific applications.

PRODUCT COMPONENTS

- 1 - Circuit breaker chamber
- 2 - Capacitors

TESTING & QUALITY

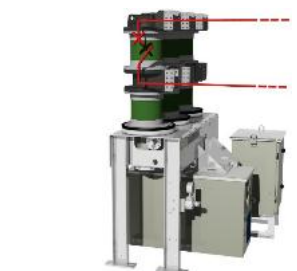
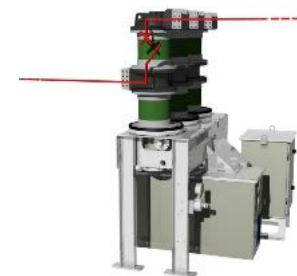
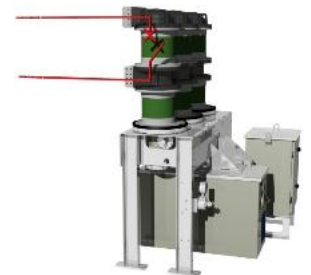
- Product in full compliance with IEEE/C37.013 and IEC standards
- Manufacturing ISO 9001 and ISO 14001 certified
- S.E.I. - S.N.E. and national packing procedures

OPTIONAL CBWATCH MONITORING SYSTEM

Add-on monitoring (automatic diagnosis) for maintenance based on real status of the switchgear.

HV TERMINAL CONFIGURATIONS

Different high voltage terminal configurations available.



CUSTOMER BENEFITS

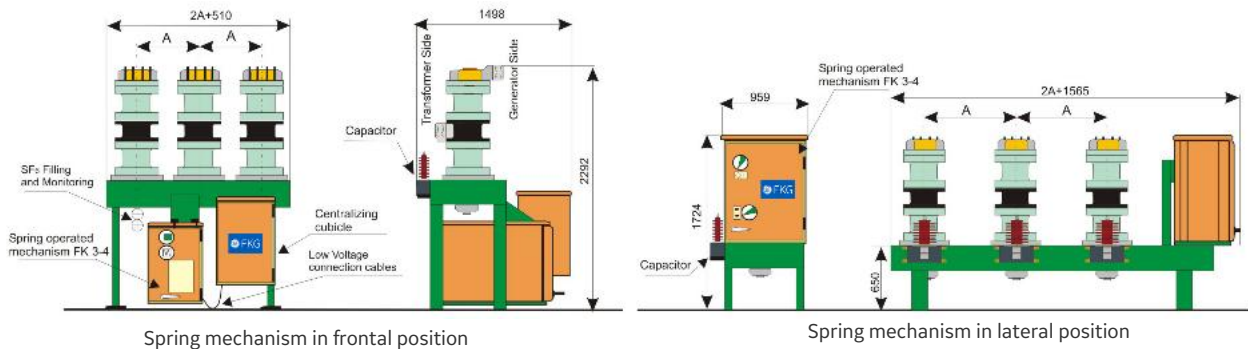
- Utmost reliability of the full spring mechanism: no leakage possible
- CBWatch makes proactive maintenance possible
- The FKG2's flexibility and compactness make it ideal for retrofit projects



RATINGS

FKG2S WITHOUT ENCLOSURE

| | | |
|---|---------|------------------------------|
| Rated maximum voltage | kV | 24 |
| Short-circuit breaking current | kA | 63 |
| Rated out-of-phase breaking current | kA | 31.5 |
| Rated breaking time | ms | 50 |
| Rated closing time | ms | 115 |
| Insulating gas | | SF ₆ |
| Rated absolute pressure at 20°C | kPa | 850 |
| Minimum absolute pressure at 20°C | 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 |
| SF ₆ monitoring by densimeter | | 3-phase |
| Pressure reading | | Yes |
| Rated peak withstand current | kA peak | 173 |
| Rated short time withstand current | kA | 63 |
| Rated duration of short-circuit | s | 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 | kV peak | 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 | kV peak | 125 |



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