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*Ingenuity for life*

# LifeGuard™ High-voltage Circuit Breaker

30-year extended warranty program

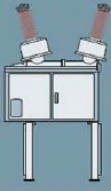
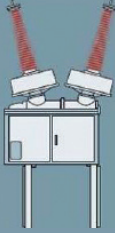
**An extended warranty program that brings peace of mind and enhanced financial returns to your business.**

The Siemens LifeGuard™ high-voltage circuit breaker 30-year extended warranty program is a warranty extension and long-term maintenance program combined into a single offering. This offering may allow asset owners to capitalize the majority of the costs of ownership over a thirty-year period, assuming the circuit breaker expense may be included as part of a utility's rate base. By being incorporated into the rate base rather than treated as a normal ownership expense, a utility is afforded the opportunity to obtain a rate of return on both the circuit breaker itself as well as the capitalized cost of ownership including maintenance. Depending upon the financial structure of a utility, the increase in rate of return on a typical high-voltage circuit breaker can be between 20 to 40 percent.

In addition to potential enhanced financial returns, Siemens performs all preventative and corrective maintenance associated with the life of the circuit breaker. Incorporated into the cost of the program is remote monitoring of the circuit breaker, which allows Siemens technicians to blend both time- and condition-based maintenance to assure circuit breaker serviceability. Annual reports are provided to the asset owner presenting circuit breaker performance parameters measured during the circuit breaker's operation, as well as test results after major maintenance service is performed.

LifeGuard™ high-voltage circuit breaker extended warranty program can be easily added to circuit breakers purchased under a long-term purchase agreement, with circuit breakers automatically enrolled and covered by the program once commissioned into operation.



Technical data of dead-tank circuit breaker							
Type		3AP1 DT / SPS2				3AP2 / 3 DT / SPS2	
Rated voltage	kV	72.5	123	145	245	550	
Rated power-frequency withstand voltage	kV	140 / 160	230 / 260	275 / 310	460	800 / 860	
Rated lightning impulse withstand voltage	kV	325 / 350	550	650	1,050	1,865 / 1,800	
Rated switching impulse withstand voltage	kV	-	-	-	-	1,350	
Rated nominal current up to	A	4,000	4,000	4,000	4,000	4,000 / 5,000	
Rated breaking current up to	kA	40	40	63	63	63	
Operating mechanism type		Stored-energy spring mechanism					

The basic extended warranty program covers all typical high-voltage circuit breaker applications, such as transmission and transformer protection, with special circuit breaker applications, such as capacitor bank or reactor switching, being available after technical review of operational and load characteristics. The program covers all SPS2 circuit breaker ratings and associated mechanisms.

**Benefits of the program:**

- Preventative and corrective maintenance costs fixed for 30-year term of coverage
- Capitalization of the program's costs allow enhanced rate of return on asset ownership

- Future corrective maintenance cost risk is eliminated for the period of coverage
- Siemens maintains inventory of parts to support maintenance program
- On-going reports of circuit breaker performance and maintenance performed provided annually
- Can be added to high-voltage circuit breaker long-term purchasing agreements
- High-voltage circuit breakers can be relocated and still covered under the program.

In addition to providing factory-trained personnel to perform maintenance and the use of genuine Siemens parts, the data captured from the circuit breaker remote monitoring system provides additional insight into circuit breaker life-cycle management. Data and its related analysis can be provided by Siemens to better plan asset capital investment.

<b>Term:</b>	Up to 30 years from installation
<b>Coverage:</b>	Preventative and corrective maintenance
<b>Product:</b>	Available for all Siemens SPS2 72 to 550kV live and dead tank high-voltage circuit breakers.

**Siemens Industry, Inc.**

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