



Smart Circuit Breaker

Smart. Fast. Safe.

Smart Circuit Breaker Product Line

In the future, circuit breakers will play a central role in ensuring system safety and reliability. Schaltbau smart circuit breakers offer modular solutions for the growing requirements of today's

DC applications for supplying critical systems and infrastructures. In the event of faults or overloads, the devices switch off circuits significantly faster than conventional protective devices.

Product Line

The product line will consist of two variants, the Smart Circuit Breaker and the Smart Hybrid Circuit Breaker. In a second step, a completely semiconductor-based Smart Solid State Circuit Breaker will follow. Measurement and integrated computer

technology turn the classic switching element into a smart component that can detect and evaluate operating states and trigger actions independently. Additional functions can be realised through software updates.

| Smart Circuit Breaker | Smart Hybrid Circuit Breaker | Smart Solid State Circuit Breaker |
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| Mechanical Contactor | Mechanical Contactor Semiconductor Switch | Semiconductor Switch |
| Measurement Evaluation Communication Interface | Measurement Evaluation Communication Interface | Measurement Evaluation Communication Interface |

Features

- Bi-directional current flow
- DC and AC compatible
- Active measurement of voltage and current at the switching element
- Local decisions based on the measurements
- Communication of the measured data to a higher-level unit
- Nominal voltage: up to 800 volts DC
- Nominal current:
 - Smart Circuit Breaker: up to 1,000 amps
 - Smart Hybrid Circuit Breaker: up to 100 amps
 - Smart Solid State Circuit Breaker: up to 100 amps

Applications

