The AQ-1000 arc quenching device extinguishes arcing faults in systems with a rated voltage of under 690 V. The AQ-1000 arc quenching system is designed to limit the total arcing time to 5 ms and to minimize (or even eliminate) the damaging effects caused by the arc fault’s temperature and pressure. In most applications this will result in an energy release of less than 1 cal/cm². AQ-1000 is fully reusable which allows for full system testing on site.

AQ-1000 is used in conjunction with the AQ-100 arc protection system. When an AQ-100 series unit detects a fault, it triggers the AQ-1000 arc quenching system and, at the same time, trips the circuit breaker(s) feeding the fault. Then AQ-1000 creates a low-impedance parallel path for the fault current to flow through, thus extinguishing the arc fault. The total arcing time is less than 5 milliseconds.

Watch a video about arc quenching with AQ-1000:

**TECHNICAL DATA**

Rated voltage: up to 690 V
Short-circuit withstand (IEC 60947-9-1/UL 2748): 100 kA for 200 ms, 50 kA for 1 s
BIL: 12 kV
Electric life: 2 operations at 100 kA, 200 ms each
Mechanical life: 100 operations
Total system operating time: 5 ms
AQ-1000 Arc quenching device (low-voltage)