SIEMENS


**ENERGY AUTOMATION PRODUCTS**

# Arc Protection

# Reyrolle 7XG31 - ReyArc

**siemens.com/reyrolle**

The Reyrolle 7XG31 is an innovative device specifically designed for arc fault protection.
Arc fault protection is a modern and critical technique used for the fast clearance of arcing faults on busbars, within metal clad switchgear and associated cable boxes. This development in electrical safety targets the reduction of the dangerous effects caused by arc faults, which can lead to fires, equipment damage, and severe injury. By detecting and isolating these faults rapidly, the Reyrolle 7XG31 plays a vital role in enhancing the protection and reliability of electrical distribution systems.

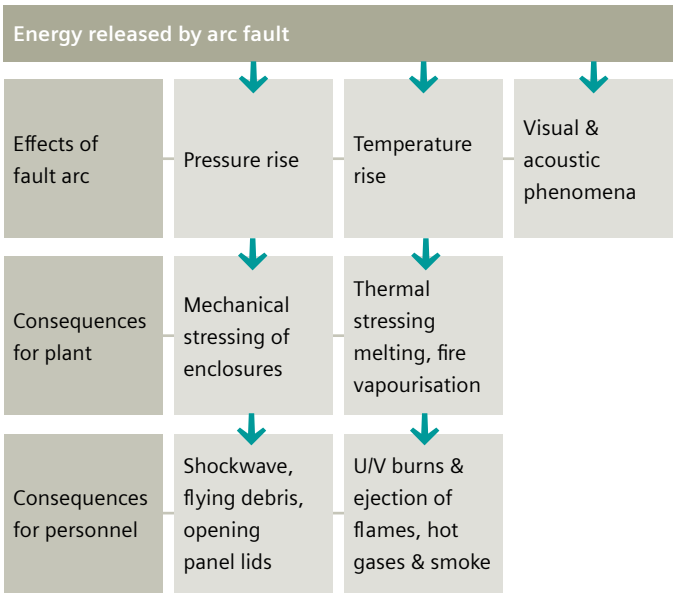

## Highlights

- Fast operating time, typically 7 ms minimizes damage caused by a fault
- Self-supervision for improved reliability
- Arc detected by light input, output signals available for use with overcurrrent devices for current check to improve security

## Your benefits

- Minimizes damage in metal clad switchgear
- Suitable for use on both new and existing switchgear installations (easily retrofitted)
- Simple modular construction, scalable for different arrangements
- Easy to install and commission

Medium-voltage switchgear is a key element in the power supply chain. Most protection systems operate effectively under the majority of circumstances but are too slow to handle arcing short circuits. Arcing faults can occur as a result of insulation breakdown due to equipment age and/or poor maintenance.
Arc fault protection is employed for the fast clearance of arcing faults on Busbars, other sections within metal clad switchgear and their associated cable boxes. The arc is detected using an optical sensor and can trip the circuit breaker directly or can be used in conjunction with an overcurrent protection device to trip the local or upstream circuit breaker.
The ReyArc range provides a choice of devices to suit multiple arc fault scheme designs for both new and existing switchgear installation.




## ReyArc Arc Protection range

- 7XG3120 Arc Fault Monitor Relay
  with 2 or 3 Arc Point Sensor inputs, 2 separate tripping- duty outputs and one fail alarm contact
- 7XG3123 Arc Fault Interface Module
  with 1 or 2 Arc Point Sensor inputs, high-speed binary output to interface with protection relay binary input
- 7XG3127 Arc Fault Monitor
  with 4 Arc Point Sensor Inputs and 1 linear sensor input, 2 separate tripping zones with 4 output tripping contact and 1 supervision contact
- 7XG3130 High-Speed Point Arc Sensor
  with 1 or 2 optical detectors
- 7XG3140 High-Speed Linear Arc Sensor
  with optional sensor length up to 40 metres

## Applications

- High Speed selective protection for metal clad switchgear
- Can be applied to LV Boards for enhanced protection
- Suitable for both simple scheme application
- Busbar protection primarily for distribution air-insulated switchgear

Webinar series - Reyrolle essentials

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