

# Three-Channel Arc Flash Relay for Switchgear

This arc flash relay detects arc faults in electrical systems to protect equipment and personnel. It monitors parameters like current and voltage to quickly disconnect power before an electrical fire occurs.



## ADDITIONAL IMAGES



## Product Overview

### Advanced Arc Flash Protection

The AFR-3S is a high-performance arc flash relay engineered for medium and high-voltage power distribution systems, including switchgear, transformers, and generators. Utilizing a dual-criteria detection principle—combining arc light detection with overcurrent sensing—it ensures rapid protection action and high reliability. This device is designed to minimize damage to critical electrical infrastructure by quickly isolating faults.

## Technical Specifications

### Max Switching Current

<b>10 A</b> AC Current	<b>12 A</b> DC Current
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### Max Switching Voltage

<b>277 Vac</b> AC Voltage	<b>300 Vdc</b> DC Voltage
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Auxiliary Power Range	85-265 Vac/dc
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Protection Range (I <sub>p</sub> )	0.06 ~ 10 I <sub>n</sub>
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## Input and Output

### Configurable Binary Inputs

- CB ON
- CB OFF
- Block

### Relay Outputs

6 x 5A @ 250V

### Arc Detection Channels

3 channels

## Communication and Connectivity

### Supported Interfaces

IRIG-B, 485-1 A/B, 485-2 A/B, CT Input