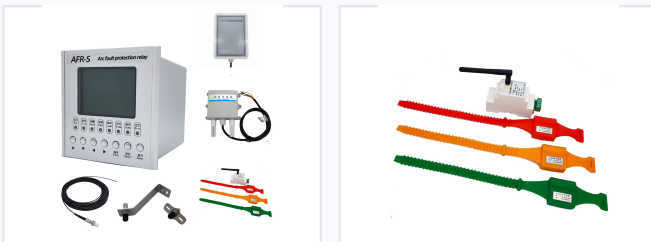


# Arc Flash Protection Relay for MV Power Distribution

This arc flash protection relay is designed for MV and HV switchgear applications. It detects arcs by monitoring current, voltage, and electric power, quickly disconnecting the power supply to reduce fire risk.



## ADDITIONAL IMAGES



## Overview

The AFR-S relay provides rapid detection and mitigation of arc flash events in medium voltage power distribution applications.

### Advanced Arc Flash Protection

The AFR-S is a high-performance digital feeder protection relay specifically engineered for MV and HV switchgear arc flash protection. By utilizing a dual-criteria detection principle—monitoring both arc light and overcurrent—it ensures rapid disconnection of power supplies to protect personnel and equipment. This reliable system is ideal for demanding environments including wind farms, photovoltaic stations, and large-scale industrial power distribution.

## Key Features

### Core Features

- Complete digital design with simple operating principles
- Double criterion of over-current and arc for high reliability
- Optical fiber transmission for electromagnetic interference resistance
- Programmable logic for trip exit configurations
- Comprehensive fault information recording
- Fast total fault clearing time

## Performance Metrics

### Response Times

**10 ms**

Pure Arc Protection

**20 ms**

Double Criterion Protection

## Power & Consumption

Power Supply Range	AC/DC 85 ~ 265V
Power Consumption	8 W

## Input Specifications

### Current Input Details

Parameter	Specification
Rated Current	5A / 1A
Measurement Consumption	d 5A
Current Tolerance	d 2%
Frequency Tolerance	0.1Hz

## Arc Detection

### Arc Signal Input

Feature	Details
Channels	12-48 channels (optional)
Sensor Type	Optical Fiber
Detection Type	Visible light / UV light (optional)

## Output & Communication

Relay Output Channels	9
Operating Voltage	AC 250V / 8A
Isolation Method	Photoelectric isolation (2500V)

## Applications

Target Environments	MV/HV Switchgear, Transformers, Generators, Wind Farms, Photovoltaic Stations, Thermal Power Plants, Municipal Engineering
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