

Arc Fault Detection Device

Arc fault detection devices (AFDD) protect against electrical fires caused by arc faults. The devices quickly disconnect power upon detecting dangerous arcing conditions.



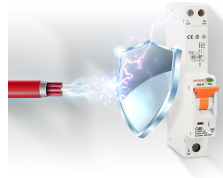
ADDITIONAL IMAGES



Overview

Arc fault protection

AFDD IS AN INTELLIGENT CIRCUIT BREAKER WITH MICROPROCESSOR INTEGRATED DESIGN, WHICH CAN DETECT AND IDENTIFY THE FAULT ARC OF THE LINE AND THE NORMAL WORKING ARC.



PREVENT FIRE HAZARDS CAUSED BY FAULT ARCS SUCH AS FROM CONTACT AND DEFECTIVE INSULATION IN ELECTRICAL LINES.

Advanced circuitry distinguishes between normal operational arcs and dangerous fault arcs to prevent nuisance tripping.

Advanced Arc Fault Protection

This Arc Fault Detection Device (AFDD) is an intelligent protection solution designed to mitigate the risk of electrical fires caused by series or parallel arc faults. It continuously monitors voltage and current waveforms to distinguish between normal operating arcs and dangerous fault arcs, providing a critical layer of safety for modern electrical systems. By integrating arc fault detection with overcurrent and residual current protection, it offers a comprehensive multi-purpose safety mechanism for residential and commercial applications.

Key Performance Metrics

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40 A

Max Rated Current

6000 A

Breaking Capacity

30 mA

Sensitivity

Electrical Specifications

Rated Voltage	230/240V AC
Frequency	50/60Hz
Number of Poles	1P+N (1 Module)
Tripping Curves	B Type, C Type
Energy Limiting Class	3

Protection Features



The device provides comprehensive protection against overload, short-circuits, earth leakage, and arc faults.

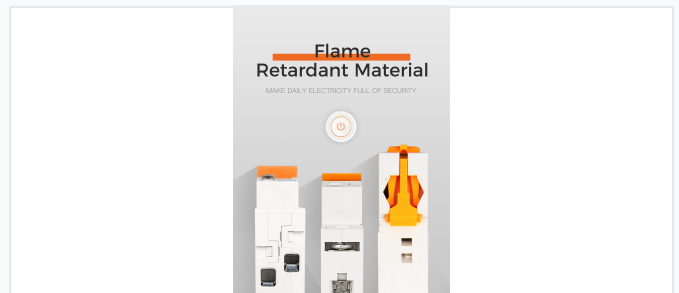
Integrated Protection

- Arc Fault Protection (Series & Parallel)
- Overload Protection
- Short-Circuit Protection
- Earth Leakage Protection

Physical Design



Ultra-slim 17.8mm design allows for significant space saving within the distribution board.



Constructed with high-quality flame retardant materials for enhanced fire safety.

Product Dimensions

Dimension	Value
Width	17.8mm
Height	115.2mm
Depth	50mm

Housing Material

Flame Retardant • Heat Resistant • Cold Resistant

Visual Status Indicator

Red (Power On) / Green (Power Off)

Installation & Maintenance

Works Well In Harsh Environment



Engineered to maintain stable performance in temperatures ranging from -25°C to +40°C.

Operating Temperature Range	-25°C to +40°C
Testing Requirement	Manual test button; recommended testing once per month

Standards & Compliance

International Standards	IEC 61009-1, BS EN 62606, CE, CB
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