



# ARC FAULT DETECTION DEVICE

## Single Module Miniature AFDD/RCBO 10kA

- 1 Series Arcing Faults
- 2 Parallel Arcing Faults Between Conductors
- 3 Parallel Arcing Faults Between Phase (or Neutral) and Protective Conductor



### 产品介绍 Introduction

WB600 系列 (故障电弧断路器 AFDD), 是我司一项最新的智能化的电路保护器, 采用嵌入式系统数字电路控制和自主开发的电弧特征识别独特算法, 其主要功能是检测和辨别危险的接地电弧故障、并联电弧故障和串联电弧故障, 并及时断开故障电弧, 避免发生电气火灾。该系列产品符合 IEC/EN-62606, GB/T31143-2014, IEC/EN61009, GB14048.2 标准, 可以检测和识别线路中的故障电弧和正常工作的电弧, 集故障电弧保护、故障电弧报警、过载保护、短路保护、过压保护、浪涌抑制、漏电保护于一体, 预防电气线路中接触不良、绝缘不良等故障电弧引起的火灾隐患, 广泛应用于电气防火以及各种用电监测场合, 也可适用于不频繁电路分合闸动作。

WB600 series (ARC FAULT DETECTION DEVICES, or AFDD) is new smart protection device by using digital electronics to analyse the waveform of A.C. circuit, to continuously monitors the circuit for different variations including the duration of an arc and the waveform. Once the device detects an irregular fault the device trips and disconnects the circuit, reducing the chance of it over heating and potentially causing an electrical fire. Under the standards of IEC/EN-62606, GB/T31143-2014, IEC/EN61009, GB14048.2, and combined arc fault detection, short circuit, overload, over-voltage and earth leakage detection, the device is used for electrical fire prevention or monitoring occasions, and also for infrequent switching of the circuit under normal circumstances.

## 产品特点 Features

- ◎ 自主研发独特算法，提供故障监测，高正确率和低误动作；
  - ◎ 具有过流、短路、过压等诸多保护功能；
  - ◎ 检测和辨别危险的接地电弧故障、并联电弧故障和串联电弧故障功能；
  - ◎ 带 A+F 型及 B 型漏电保护功能，极大地提高了用电安全的范围和可靠性；
  - ◎ 具有欠压报警、漏电以及电弧自动测试报警功能；
  - ◎ 具有 LED 故障状态显示功能；
  - ◎ 具有并及时驱动执行机构动作断开电流，阻止发生电气火灾的功能；
  - ◎ 具有一键测试功能，故障电弧及漏电测试功能一键完成；
  - ◎ 具有体积小，功耗低等特点。
- ◎ New algorithm to monitor with high detection accuracy;
  - ◎ With the protection of short circuit, overload, over-voltage;
  - ◎ Series and parallel arc fault detection;
  - ◎ Type A+F, and Type B earth leakage protection;
  - ◎ With the detection of under-voltage, earth leakage and arc fault;
  - ◎ LED indication;
  - ◎ Tripped the circuit by switching the device, in case of any electrical fire;
  - ◎ One button operation on self testing of arc fault and earth leakage.
  - ◎ Compact design with low energy consumption.

## 技术参数 Technical Data

产品图 Picture			
型号 Item No.	WB601-40	WB602-40	WB603-40
安装方式 Mounting	导轨式 DIN RAIL TYPE	插入式 PLUG IN TYPE	导轨式 DIN RAIL TYPE
额定电流 Rated Current (In)	6,10,16,20,25,32,40A		
极数 Poles	1P+N		
额定电压 Rated Voltage (Ue)	230V~		
绝缘电压 Insulation Voltage (Ui)	400V		
额定频率 Rated Frequency (Hz)	50Hz		
漏电保护值 Rated Sensitivity(I $\Delta$ n)	30mA, A 型 Type A	30mA, A 型 Type A	30mA, B 型 Type B
脱扣时间 Tripping Time under(I $\Delta$ n)	≤ 0.1s		
额定分断能力 Rated Short-circuit Capacity(Icn)	10,000A	6,000A	6,000A
额定冲击耐受电压 Rated Impulse Withstand Voltage(Uimp)	4,000V		
特性曲线 Thermal Tripping Characteristic	B, C		
电气寿命次数 Electrical Life Operations	4,000		
机械寿命次数 Mechanical Life Operations	10,000		
使用环境温度 Ambient Temperature	-5°C ~+55°C		
质保期 (年) Guarantee	2 Years		
产品宽度 Width	18mm	25mm	36mm
防护等级 IP Rating	IP20		

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