

Control Relays – AR, ARD, BF, BFD, NBFD

Background

Westinghouse is the OEM for the AR and BF series relays dating back to their original production release. Although Westinghouse sold the manufacturing of this product line to Eaton in the 1990's, they are still produced based on the original drawing requirements.

Description

AR Relays

- Robust AC Control Relay
- Can be used across multiple applications
- Available as Class 1E qualified in 4,6, & 8 pole configurations
- Control Voltage range of 12 VAC to 600 VAC

ARD Relays

- DC Version of the AR Relay, with operating ranges of 12 VDC to 240 VDC

BF Relays

- Small footprint AC control voltage
- Can be used across multiple applications
- Available as Class 1E qualified in 2 to 12 pole configurations
- Control Voltage range of 12 VAC to 440 VAC

BFD Relays

- DC Version, can only be supplied as non-1E due to coil limitations

NBFD Relays

- DC Version of the BF Relay qualified for Class 1E applications
- Only available in 125-130 VDC voltage range
- Rated for continuous operation



Typical AR Relays.



Typical ARD Relays



Typical BF Relays



Typical BFD / NBFD Relays

NBFD65NR (9084A70G01) Relay

- 11 pole relay designed to universally replace all other NBFD relays
- Dual Coil Designed to run cooler, reduce operating coil load, and utilized for continuous operation
- Same contact specifications as basic NBFD relays



Typical NBFD65NR (9084A70G01) Relay

Deliverables

- Westinghouse Certified Product
- Certificate of Conformance (C of C)
- Certificate of Qualification (C of Q) upon request
- Class 1E products backed by Westinghouse's 10CFR50 Appendix B program

Benefits

WPB performs regular Commercial Grade Surveys on Eaton's manufacturing facilities of these relays to help ensure product quality.

In addition, to meet the robust requirement of the nuclear industry and to ensure performance and reliability, Westinghouse performs several proprietary enhancements during our Commercial Dedication process.

Experience

Westinghouse has provided these control relays to nuclear plants around the world.