



ALLEN-BRADLEY BULLETIN 1336 PLUS FAULT RESET/AUTO RESTART

APPLICATION NOTE #1336S - 7

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PURPOSE

The purpose of this document is to provide guidelines for wiring and control schemes for the Bulletin 1336S AC Drive. This document is to be used as a suggestion only. Users must ensure that installations meet applicable codes and are suitable for the existing conditions.

The Bulletin 1336S User Manual should be used as a reference to ensure that proper wire selection, routing and fusing guidelines are followed.

WHAT THIS NOTE CONTAINS

The Bulletin 1336S drive can be configured to automatically reset a fault and then restart the drive. This is useful for unmanned areas that may have frequent power outages.

The start/stop control inputs must be TWO-WIRE control to allow the drive logic to perform the auto restart function. This note contains diagrams and parameter programming used to implement the auto restart function. Two wire control is only available with INUT MODES 12 - 16, 20, 21 and 24.

INTENDED AUDIENCE

This application note is intended to be used by personnel familiar with the hardware components and programming procedure necessary to operate the Bulletin 1336S.

WHERE IT IS USED

The diagrams, parameter settings and auxiliary hardware used in this application note are designed to address specific issues in many different applications. Some changes by the User may be necessary to apply the concepts of this document to a specific application.

DESCRIPTION

The 1336S requires that a 2-wire start/stop circuit be used with the auto restart function. The start command must remain "logically true" for the auto restart to function properly. One of the Logic Interface cards must be installed on the drive.

The fault reset function is enabled by setting [Reset/Run Tries] (Parameter 85) to a value between 1 and 9. This setting then becomes the "counter" value for the Restart attempts. [Run On Power Up] (parameter 14) must be set to a value of 1. [Reset/Run Time] (parameter 15) must be set to the time between restart attempts adjustable between 0.5 sec. and 30 sec.

The drive may be reset by one of 4 methods.

1. Set [Flt Clear Mode] (parameter 39) to "Disabled" (0). Cycle the input power to the drive and allow the drive to completely discharge the stored energy in the capacitor bank.
2. Set [Flt Clear Mode] (parameter 39) to "Enabled" (1). This will allow the fault to be cleared by cycling the STOP input, TB2 terminal 20, false then true. Or cycle input power to the drive as described in number 1.
3. Set [Flt Clear Mode] (parameter 39) to "Enabled" (1). A write command from a communications interface to the [Clear Fault] (parameter 51).
4. Set [Flt Clear Mode] (parameter 39) to "Enabled" (1). A Clear Fault input to the Logic Command word via one of the communication interfaces.

Refer to Figure 1 for diagram.

PARAMETER SETTINGS

Number	Group	Name	Setting
14	Feature Select	Auto Restart	0 = Disabled 1 = Enabled
15	Feature Select	Reset/Run Time	0.5 - 30 Sec 1.0 = Default
85	Feature Select	Reset/Run Tries	0 = Disabled 1-9 = Attempts

FIGURE 1 AUTO RESTART WITH 115VAC INTERFACE

