



ALLEN-BRADLEY BULLETIN 1336 PLUS INPUT CONTACTOR

APPLICATION NOTE #1336S - 9

May 19, 1997

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. User must ensure that installation meets applicable codes and is 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

Suggested guidelines for applying an Input Contactor to a Bulletin 1336S. The Input Contactor may also be utilized as part of an ALL-STOP circuit. Refer to Application Note #1336S-4, 1336S ALL-STOP CIRCUITRY for additional information.

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.

TERMS AND DEFINITIONS

The Input Contactor (1K) is an electromechanical device wired between the 3-phase line supply and the input of the adjustable frequency drive.

A1-A4 Frame - 230V 0.5 - 5HP
480V 0.5 - 10HP
575V 1- 5 HP

DESCRIPTION

The Input Contactor is utilized to isolate the drive from the Line Supply. Typically a Bulletin 100 style contactor is used where NEMA rated contactors are not required. The contactor will supply the line voltage to the drive input through it's main contacts when the coil is energized.

The "customer interlock" shown on Figure 1 is used as a permissive for the Input Contactor. An Example for the interlock may be a limit switch on a given process or a "maintenance" switch.

The Input Contactor is used to isolate the drive from the line voltage under a given condition. The contactor is not to be used to start and stop the drive.

**APPLICATION
CONSIDERATIONS**

For the A1-A4 frame drives, the Input Contactor must remain de-energized for at least one minute after power has been removed from the drive. No more than 3 cycles are allowed within a five minute period. A ten minute delay is required before attempting the next three cycles.

FIGURE 1 INPUT CONTACTOR

