



**ALLEN-BRADLEY
BULLETIN 1336
FAULT RESET/AUTO RESTART**

APPLICATION NOTE #7

January 2, 1997

PURPOSE

must

The purpose of this document is to provide guidelines for wiring and control schemes for the Bulletin 1336 AC Drive. This document is to be used as a suggestion only. Users

ensure that installations meet applicable codes and are suitable for the existing conditions.

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

**WHAT THIS NOTE
CONTAINS**

for

The Bulletin 1336 drive can be configured to automatically reset a fault and then restart the drive. This is useful

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.

**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 1336/1336VT.

**WHERE IT
IS USED**

changes
of this

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

DESCRIPTION

The 1336 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 three Logic Interface cards (MOD-L1,L2 or L3) must be installed on the drive.

The fault reset function is enabled by setting Parameter 85 (Restart Tries) to a value between 1 and 9. This setting then becomes the "counter" value for the Restart attempts. Parameter 14 (Auto Restart) and Parameter 40 (Power Fault) must also be set to a value of 1.

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When a fault occurs, the drive software starts two timers - 20 second restart time delay and a 4 minute restart period. The 20 second timer is used as a delay between restart attempts. The 4 minute timer is used as a "watchdog" to ensure that the drive does not remain in the "restart" mode for more than 4 minutes.

The restart process will continue for the number of Restart Tries until the 4 minute time period expires. Once expired, the Retries Exceeded (F33) fault will be set. Fault codes F13-F18 and F33 require the drive to be manually reset.

The drive may be reset by one of 3 methods.

to

1. Cycle the input power to the drive and allow the drive completely discharge the stored energy in the capacitor bank.
2. Set parameter 39 to a value of 1. This will allow the fault to be cleared by cycling the STOP input, TB2 terminal 20, false then true.
3. If the 1336-MOD-G2 Serial Interface is used, a BTW to parameter 51 (Clear Fault) will also clear the fault.

The

Serial Interface will not allow F10 (Communication Loss) fault to be cleared.

Refer to figure 1 for diagram with 115vac interface.
Refer to figure 2 for diagram with TTL interface.

PARAMETER SETTINGS

PARAMETER #	NAME	SETTING
14	AUTO RESTART	0 = DISABLED 1 = ENABLED
40	POWER FAULT	0 = F03 ACTIVE 1 = F03 DISABLED
85	RESTART TRIES	0 = DISABLED 1 to 9=ATTEMPTS

F03 is the fault code for an Under Voltage condition.

AUTO RESTART WITH 115V AC INTERFACE

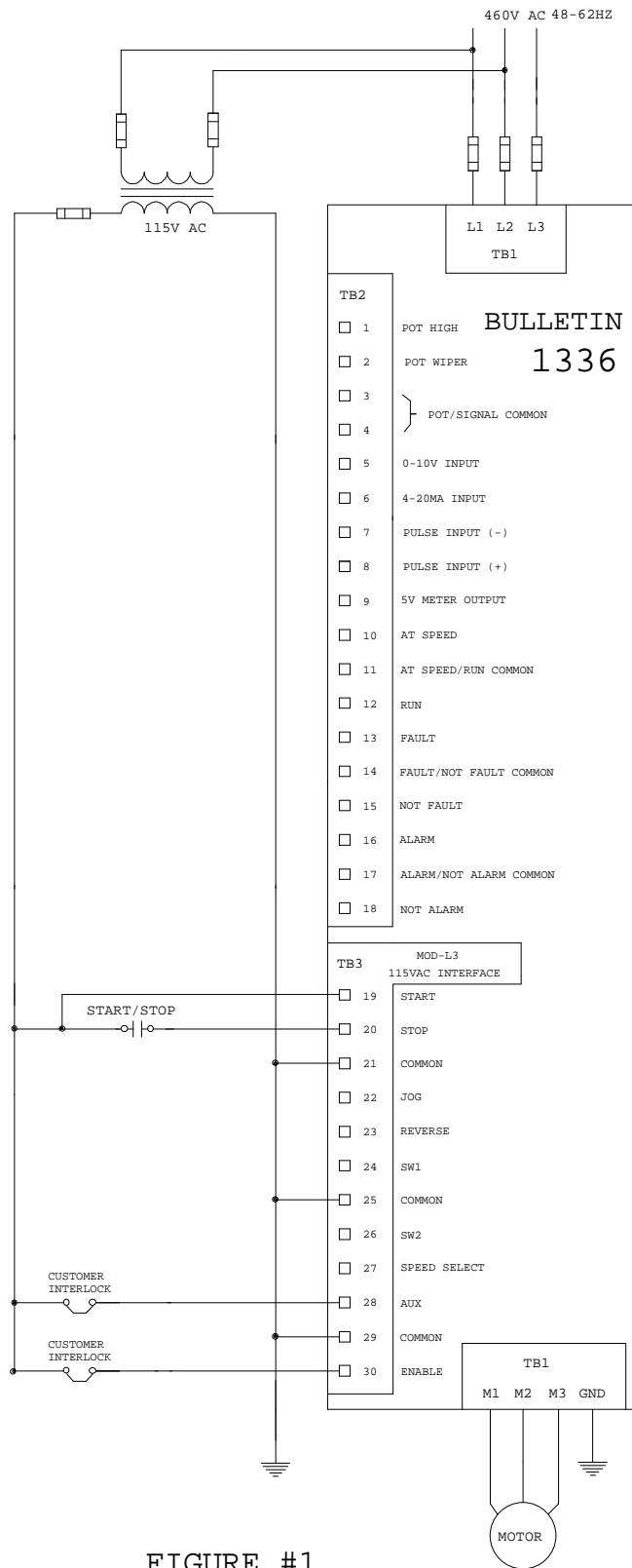


FIGURE #1

AUTO RESTART WITH TTL INTERFACE

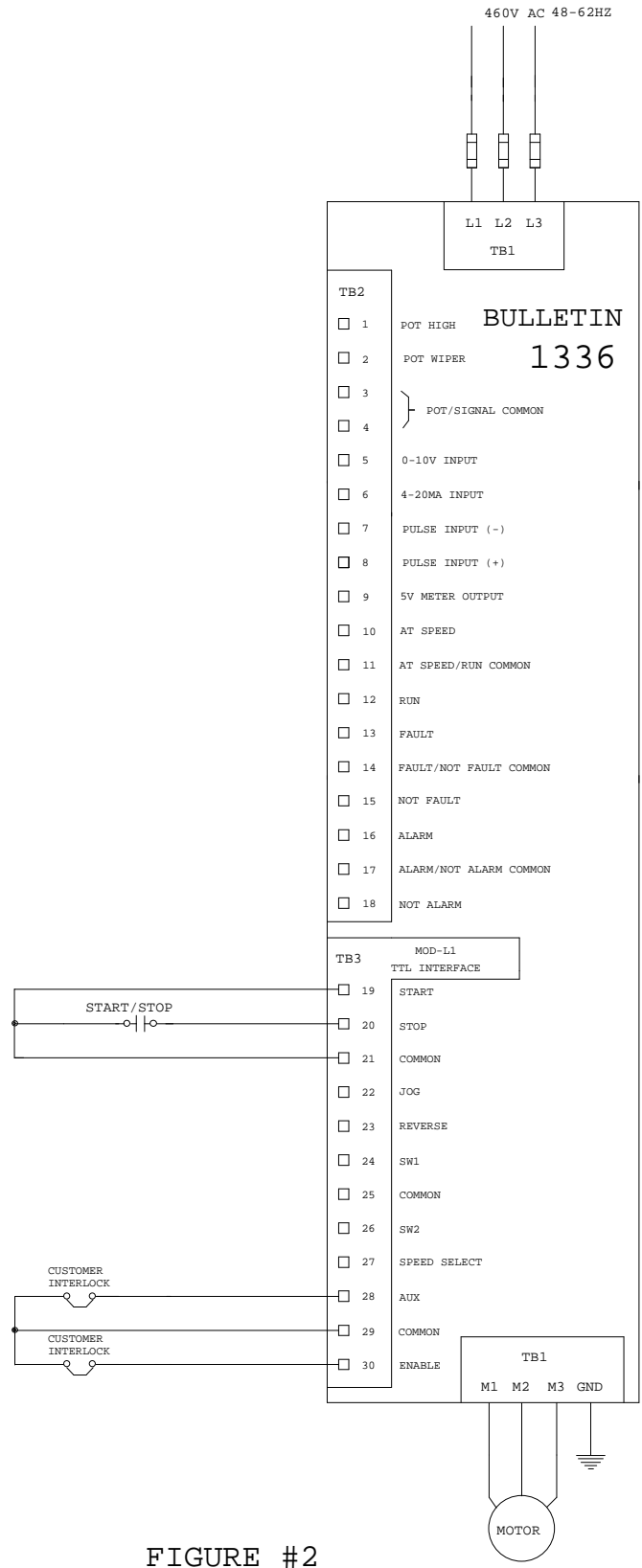


FIGURE #2