



1334-MOD-W2

Set-Point Frequency Contact Card

- Description** The Bulletin 1334-MOD-W2 Set-Point Frequency Contact Card is designed for use in both Bulletin 1334 and 1335 AC Drives and provides a contact indication for customer use. The contact is an isolated contact, programmable to change state or trip at a preselected Drive output frequency from the Drive. The trip point is preset on the option card and is field adjustable to select the trip point in one hertz increments from 0 to 199 hertz. The contact may be field programmed by jumper selection to be either normally open or normally closed as well as nonlatching or latching on a Drive trip.
- Set-Point Frequency Contact Cards prior to revision 4 have a single solid state contact for their output. Cards of revision 4 and later have a set of form C dry relay contacts for their output.

Installation



WARNING

Only personnel familiar with the Drive and its associated machinery should plan or implement the installation, startup, and adjustment of MOD kits. Failure to comply may result in personal injury and/or equipment damage.

To guard against personal injury, always remove & lock-out power to the Drive at the main supply disconnect and all other power source disconnects. Ensure that DS1 is not lit when boards or wires are being installed or connected. Refer to the instruction manual for your Drive for LED location.

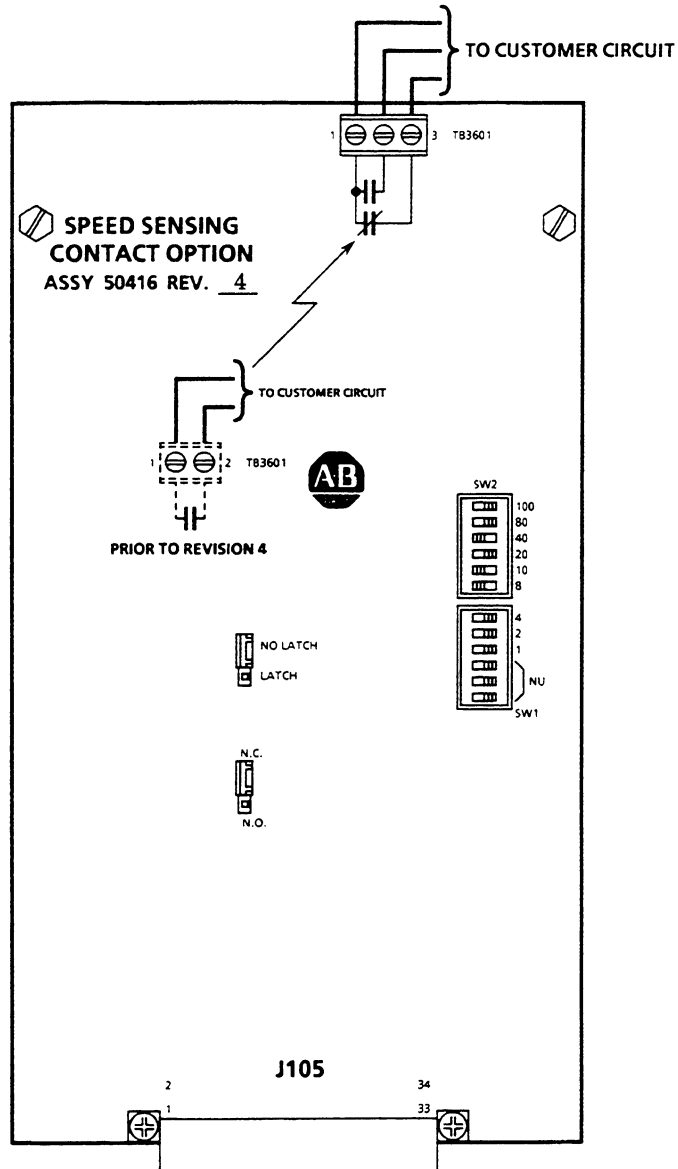
Each 1334-MOD-W2 Option Kit Includes:

- (1) Set-Point Frequency Contact Card, P/N 50416
- (2) $\frac{1}{4}$ Inch, $\frac{1}{4}$ – Turn Standoffs, P/N 201104

As shown in the installation drawing below, two predrilled holes have been provided above Modulator Logic Board connector **J105**. Installation requires removing power to the Drive and installing (2) $\frac{1}{4}$ – turn standoffs into the predrilled holes. The card is then plugged onto the edge connector while pressing the top of the card onto the (2) installed standoffs. To secure the card in place, press down on each hex head screw and turn $\frac{1}{4}$ – turn CW.

Wiring

Interconnection wiring to the card is not provided with the kit. All interconnection wiring to the card should be made to terminal block **TB3601** located at the top of the card. The maximum wire size **TB3601** will accept is 18 AWG, stranded copper wire. For best results, interconnection wiring should be twisted cable — 7-10 turns per inch, 22 AWG minimum — with a maximum distance of 1,000 feet.



Set-Up

The Set-Point Frequency Contact Card has three parameters that determine the card operation and that are field programmable.

- **Frequency Trip Point** controlled by the settings of dip switches **SW1** and **SW2**.
- **Contact Status** controlled by a jumper labeled **N.C.** and **N.O.**
- **Contact Latch Status** controlled by a jumper labeled **NO LATCH** and **LATCH**.

Set-Up
(continued)

Review the procedures listed below and on the following page and select the appropriate switch and jumper positions to obtain the desired card operation.

Frequency Trip Point

Switches **SW1** and **SW2** permit the programming of a single frequency. As long as the Drive output frequency is below this set point, the card contacts will be in their initial state. Once the Drive frequency rises above this set point, the card contacts will change state. The switches are grouped to represent the programmed trip point in a Binary Coded Decimal (BCD) format. To set a frequency, slide the appropriate dip switches at **SW1** and **SW2** so that the **ON** switches add up to the desired frequency.

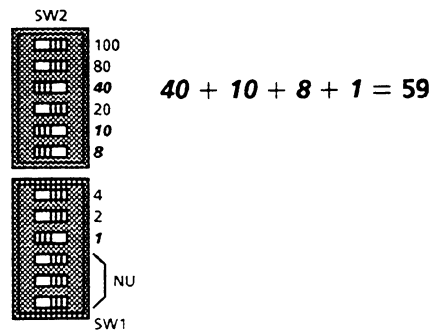


CAUTION

Never set switches using a pen or pencil. Switches contaminated with conductive debris may become damaged and cause false values to be indicated.

EXAMPLE

Desired Trip Point is 59 Hertz. The following contacts should be **ON**.



All other contacts on **SW1** and **SW2** should be off.

Contact Status

The **N.O./N.C.** jumper sets the status of the contact between terminals **1 & 2** of **TB3601**. This is the only contact available on cards prior to revision 4. Set-Point Frequency Cards of revision 4 or later have an additional contact of the opposite state available between terminals **1 & 3**.

CONTACT RATING

0.33 A continuous, 2A inrush, 120V AC
5A maximum at 30V DC



N.O. — The contact will be normally open when the drive is below the trip point set by **SW1** and **SW2**. The contact will be open when Drive power is removed. The contact will close when the Drive frequency rises above the set point.

Set-Up
(continued)

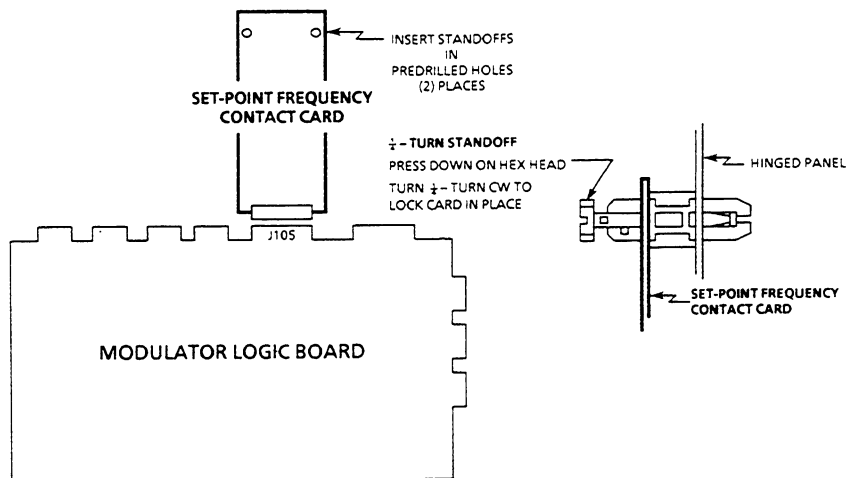
N.C. — The contact will be normally closed when the Drive is powered up and operating below the trip point set by **SW1** and **SW2**. The contact will be open when Drive power is removed. The contact will open when the Drive frequency rises above the set point.

Contact Latch Status

This jumper selects the reset of the contacts after a trip occurs.

NO LATCH — If no latch is selected, the contacts will resume their normal state after a set-point trip and after the Drive reduces frequency to below the set point. An external or Drive reset is not required.

LATCH — If latch is selected, the contacts will maintain their tripped state until the Drive is reset. A Drive reset is accomplished by cycling the stop and start command or by recycling power to the Drive.



Motion Control Division