

## 3STA1000, 3STA1001, AND 3STA1002 TIMED ACCELERATION AND DECELERATION OPTIONS FOR STATOTROL® II DRIVES

### DESCRIPTION

The Statotrol II timed acceleration and deceleration option consists of several components on a small printed circuit board which plugs into the main controller component board. This option provides adjustable linear motor acceleration in response to a rapid change in the reference signal.

The 3STA1000 option is adjustable from 2 seconds to 30 seconds. The 3STA1001 option is adjustable from 5 seconds to 60 seconds. The 3STA1002 is adjustable from 0.75 seconds to 8 seconds. Only the 3STA1002 is suitable for use with the Statotrol II Regenerative Braking Option.

### INSTALLATION

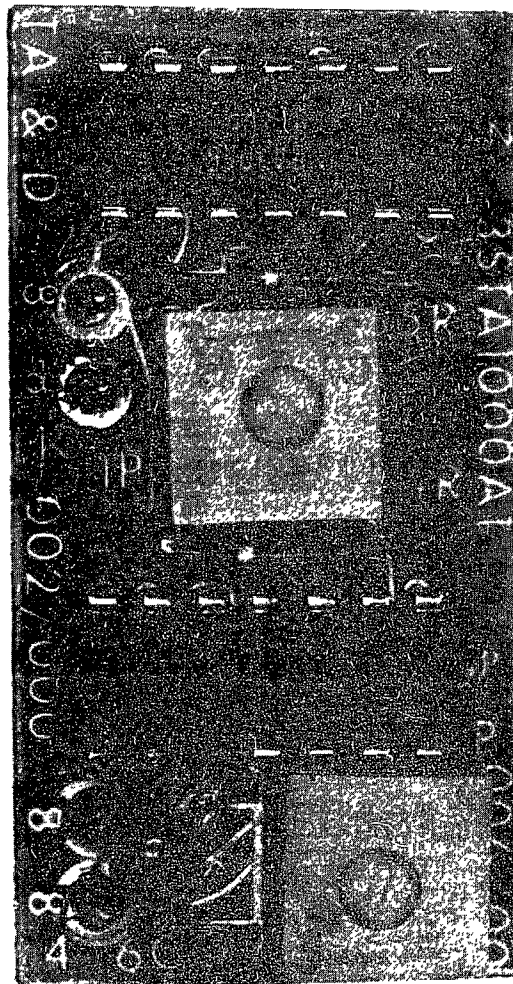
Refer to Figure 2 in the controller instruction book for proper mounting orientation and location. The timed acceleration and deceleration option has a plastic standoff for mounting strength and 4 pins for electrical connection to receptacles on the main component board. Two of the receptacles are connected together by a factory installed jumper. This jumper must be removed before the option is installed. When installing the option, use care to avoid bending the connection pins. Be certain that each pin mates properly with its receptacle. Press the option board down firmly until the plastic mounting standoff snaps into place.

### OPERATION AND ADJUSTMENT

When the "start" button is pressed, motor speed will immediately come up to the speed set by the "minimum speed" potentiometer and then accelerate to set speed at a rate determined by the position of the "acceleration rate" potentiometer. If the "minimum speed" potentiometer is set counterclockwise from its center position, there will be a delay between "start button" actuation and motor start up.

To increase the rate of acceleration from minimum speed to set speed, turn the "acceleration rate" potentiometer clockwise.

When the motor is running at a steady speed and the reference is quickly turned to zero, the motor will decelerate to the speed set by the "minimum speed" potentiometer at a rate determined by the setting of the "deceleration rate" potentiometer. To increase the rate at which the motor slows down, turn the "deceleration rate" potentiometer clockwise.



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These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to General Electric Company.