



1334-MOD-T1, T2, & T3

5, 7½, & 10 HP Motor Overload Relay

Description

The Bulletin 1334-MOD-T1, T2, & T3 Option Kit provides an Allen-Bradley Bulletin 592 Overload Relay for Bulletin 1334, 5, 7½, & 10 HP, Series A and Series B Drives. The relay is installed on the Drive chassis and is connected between the Drive output and the motor. The overload relay contact is connected to Drive terminal block 1TB (TB1 on Series B Drives). Should the thermal overload trip open, the contact will cause a stop command to be issued by the Modulator Logic Board, and the Drive will either ramp-to-stop or coast-to-stop as set by the RTD S/OFF jumper on the Modulator Logic Board.

The heater elements provided with the kit are based on the Drive's output current. To choose the correct element, motor nameplate and application requirements, along with Allen-Bradley Heater Element Table 181 provided with the kit, must be checked by the user.

Each 1334-MOD-T1, T2, or T3 Option Kits Include —

- (1) Bulletin 592 Motor Overload Relay, P/N 201208
- (1) Terminal Block Mounting Channel, P/N 130003-006
- (2) Terminal Block End Anchors, P/N 202262
- (4) 10-32 Hex Nuts, P/N 226378
- (2) 10-32 3/8" Phillips Head Screws, P/N 215341
- (3) #10 Flat Washers, P/N 209724
- (3) #10 Split Lock Washers, P/N 209716
- (2) #10 Tooth Lock Washers, P/N 235431
- (1) #10 Lug Ring, P/N 201435-011
- (6) Cable Ties, P/N 222747
- (1) Two Wire Harness, P/N 197175
- (1) 8-32 ¼" Phillips Head Screws, P/N 214868
- (1) #8 Split Lock Washers, P/N 242683
- (1) #8 Flat Washer, P/N 235350
- (1) Three Wire Harness, P/N 197401
- (1) Heater Element Caution Label, P/N 800035

Each 1334-MOD-T1 Option Kit also Includes —

- (3) Allen-Bradley Type W49 Heater Elements, P/N 201304-W49

Each 1334-MOD-T2 Option Kit also Includes —

- (3) Allen-Bradley Type W53 Heater Elements, P/N 201304-W53

Each 1334-MOD-T3 Option Kit also Includes —

- (3) Allen-Bradley Type W56 Heater Elements, P/N 201304-W56

AB Spares

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.

**Series A Motor Overload Relay Installation
WITHOUT AMMETER OPTION**

- STEP 1** With input power removed at the disconnect device, disconnect and tag the wires at terminals **A, B, & C** of terminal block **2TB**.
- STEP 2** Without disconnecting the wires to terminals **1 & 2**, disassemble the terminal block and remove terminals **A, B, & C**. Remount terminals **1 & 2** on the new mounting channel with the two end anchors provided with the kit. Mount the new terminal block with the existing hardware.
- STEP 3** The relay will serve as both a motor overload relay and the Drive output terminal block once installed. Mount the relay in the upper right hand corner of the Drive backpanel over the (3) threaded studs provided. Use (3) of the (4) hex nuts and the (3) split lock washers & flat washers provided to secure the relay in place.
- STEP 4** Select and install the correct heater elements using the motor nameplate data, application requirements, and **Allen-Bradley Heater Element Table 181**. Apply the appropriate overload relay labels included with the kit to the middle of the Drive's acrylic panel.
- STEP 5** Remove the jumper bar between terminals **10 & 11** at terminal block **1TB**, then route and connect the two wire harness assembly between the Bulletin 592 Motor Overload Relay and terminals **10 & 11**. Tie the wire harness to the existing main harness and use the cable ties as required. Reconnect all wires to the motor overload relay as shown.

Installation

(continued)

Series B Motor Overload Installation

Installation of the overload relay involves disconnecting and tagging the three motor output wires from terminal block **TB2**, installing the Bulletin 592 Motor Overload Relay, and reconnecting the three motor output wires to the upper terminals of the overload relay.

The relay is mounted in the upper right hand corner of the Drive backpanel over the three threaded studs provided. Use (3) of the (4) hex head nuts and the (3) lock washers & flat washers provided with the kit to secure the motor overload relay in place.

Once the relay is installed, select and install the correct heater elements using the motor nameplate data, application requirements, and **Allen-Bradley Heater Element Table 181**. Apply the appropriate overload relay labels included with the kit on the front of the Drive's chassis door. Refer to the Allen-Bradley instructions included with the Bulletin 592 Overload Relay for additional information.

Series B Wire Harness Installation

Remove the jumper bar between terminals **10 & 11** at terminal block **TB1**, then route and connect the two-wire harness assembly between the Bulletin 592 Motor Overload Relay & terminals **10 & 11**. Route and connect the three-wire harness assembly between the lower terminals of the overload relay and terminal block **TB2**. Reconnect the three motor output wires to the top of the Motor Overload Relay.

Operation

The overload relay's normally closed auxiliary contact is connected to terminals **10 & 11** at **1TB** (or **TB1**). While the contact remains closed, Drive output current passes through the installed heater elements of the overload relay allowing the Drive to operate normally. Should the thermal overload trip open, the contact will cause a stop command to be issued by the Modulator Logic Board, and the Drive will either ramp-to-stop or coast-to-stop as set by the **RTD S/OFF** jumper on the Modulator Logic Board.

TO RESET THE RELAY —

- Remove Power From the Drive at the Disconnect Device
- Wait a Few Minutes to Allow the Heater Elements to Cool Down
- Depress the Reset Plunger Until a Click Is Either Heard or Felt
- Reapply Power & Start the Drive



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