

TSV MCU Motor Thermal Upgrade

Field Service Upgrade Procedure

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Revision History

Revision	Date	Author	Comments
A	23Feb06	P. Devin	First Release

TSV MCU Motor Thermal Upgrade
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Scope

This document describes the procedure to be used to add a thermal protector to the MCU's three phase motor. (Reference ECO CA08908).

1. PARTS REQUIRED

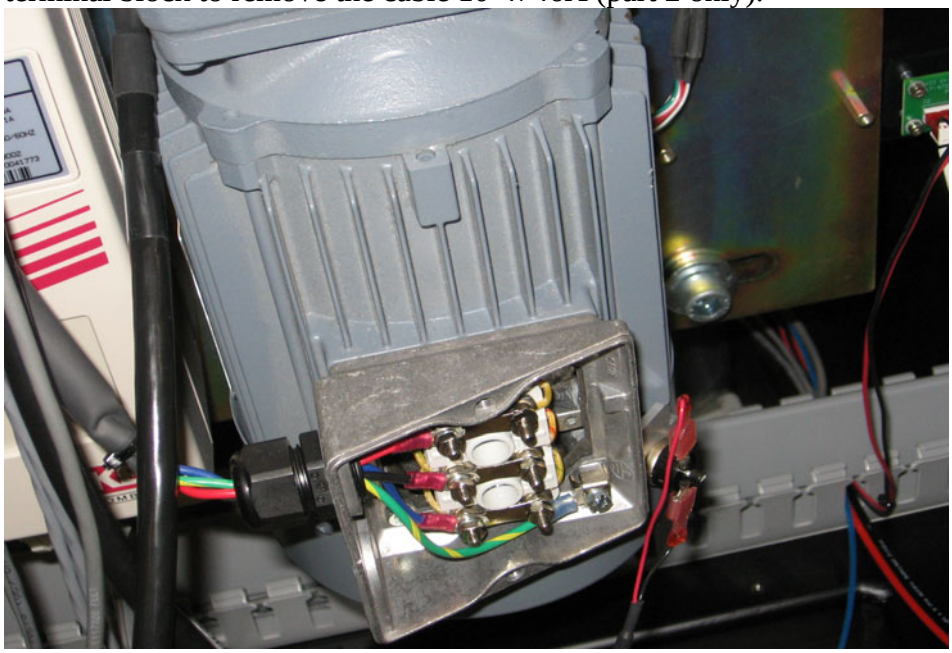
512-00330A	Qty 1	which contains	
		252-10025A	Qty 1
		52-4024	Qty 1
		10-4745B	Qty 1
		52-4003	Qty 2
		52-7205	Qty 2
		18-3042	225 mm
		18-3017	Qty 6

2. REMOVING PARTS

1. Remove cable 10-4745A from the Safety Interface board J5 and from the contacts A1 and A2 of the relays.

3. INSTALLING PARTS

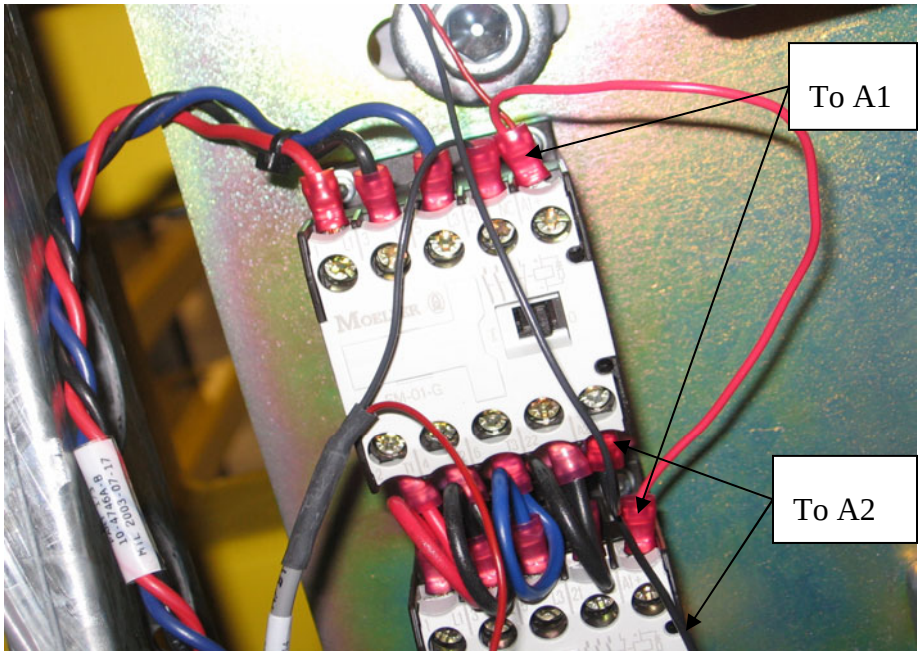
1. Open the cover of the three phase motor's terminal block. Undo the screws on the terminal block to remove the cable 10-4746A (part 2 only).



2. Put this section of cable 10-4746A into the heatshrink tube 18-3042. No shrinking is needed to the tube. Tie wrap the end of the heatshrink with a cable tie. Route the cable through the strain relief into the motor's terminal block and reconnect the pins into the terminals.



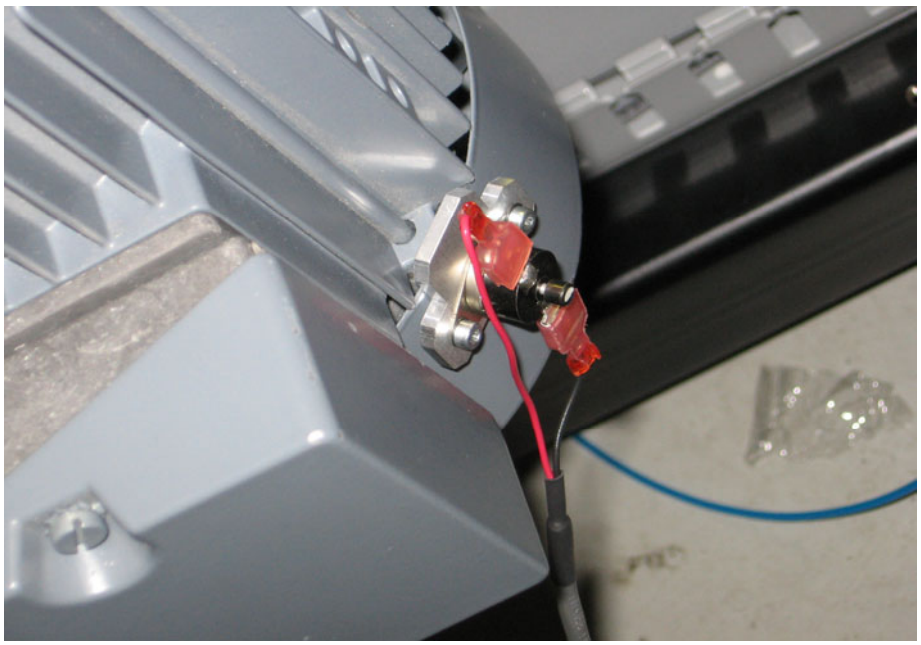
3. Install the cable 10-4745B by connecting to J5 of the Safety Interface Board and by connecting the two red and two black wires to A1 and A2 of the relays. Route the cable appropriately.



4. Route the second branch of the cable 10-4745B to the side of the motor (nearest the Safety Interface Board).

5. Install the thermal protector onto the motor by:

   a. Removing the screw at the right hand side of the motor terminal block.



   b. Mounting the T-plate (252-010025A) with a M4 flat head screw (52-4024) onto the motor at the location at step (a) above.

c. Mounting the thermal protector to the T-plate with two M3 screws and two washers (52-7205 & 52-4003).

6. Tie wrap the cables 10-4745B and 10-4746A with cable ties.