

10-30 HK75 Heater and Thermostat

FCD WCENIM2069-01 AQ (Part 16420)

Installation, Operation and Maintenance

IMPORTANT: When installing a foil rope heater for a particular voltage actuator, ensure that the heater has the proper voltage rating, compatible with the actuator. Heaters with different voltage ratings than actuator may be installed if the heater is wired independently from actuator. The voltage and wattage are both marked on the heater. Also, be sure that heater is in contact with the metal part of motor module or gear train, as a heat sink is important so that heater does not overheat.

A. 10-30 HK75 Installation

1. Remove cover of actuator to gain access to internals. On 10-23 75, it is recommended to remove motor module to get better access to mounting area.
2. Using a commercially available cleaner, wipe the areas to which the heater will be applied (see the illustrations on next page) to remove greases, oils and dirt from the metal surfaces, and allow it to dry.
3. Remove the paper backing on the heater, exposing the adhesive surface. Starting from the depression on 10-23 75 actuators (or the left side of gear train support on 25-30 75 actuators) begin to apply the heater. Press the adhesive side of the heater to the actuator's cleaned surfaces, taking care to apply the heater tightly onto the curvatures. Smooth the heater out by pressing along entire surface with your hand.
4. Refer to wiring diagram (Figure 3) and/or inside actuator cover. Wire one side of the heater to the terminal strip at terminal 1 for AC or terminal 11 for DC.

NOTE: All wiring to terminal strip should be inserted only to midpoint of terminal strip.

When there are multiple wires going to terminal 1, use the short white wire included in kit. Connect it to terminal 1 and then splice it to the other white wires (common) using the closed-end splice provided.

5. Connect the other wire of the heater to one wire of the thermostat using the wiring connector provided in the kit and crimp properly.
6. Connect the other lead on the thermostat to the terminal strip at terminal 2 for AC or terminal 12 for DC.
7. Apply the appropriate voltage between terminals 1 and 2 for AC or 11 and 12 for DC. (Terminal 1 is common to AC actuator power.)
8. For 10-30 75 actuators, locate the thermostat under the right side limit switch(es) (as viewed from terminal strip). Position thermostat conveniently so that wires can reach terminal 2 for AC or terminal 12 for DC. For 25 and 30 75 actuators, tie thermostat to switch post using wire tie included in kit. Keep wiring away from any rotating parts.
9. The thermostat will energize the heater at temperatures below 210°C.

NOTE: If heater is used with electrical fail-safe option (F75), an AC heater must be used. The heater is wired to terminals 11 and 12 of terminal strip, which are then wired to terminals 9 and 10 of fail-safe module.

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Figure 1—10-23 75

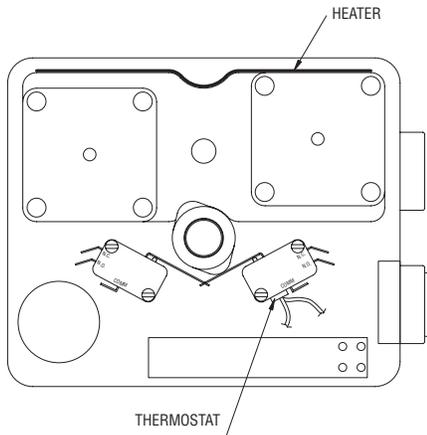


Figure 2—25/30 75

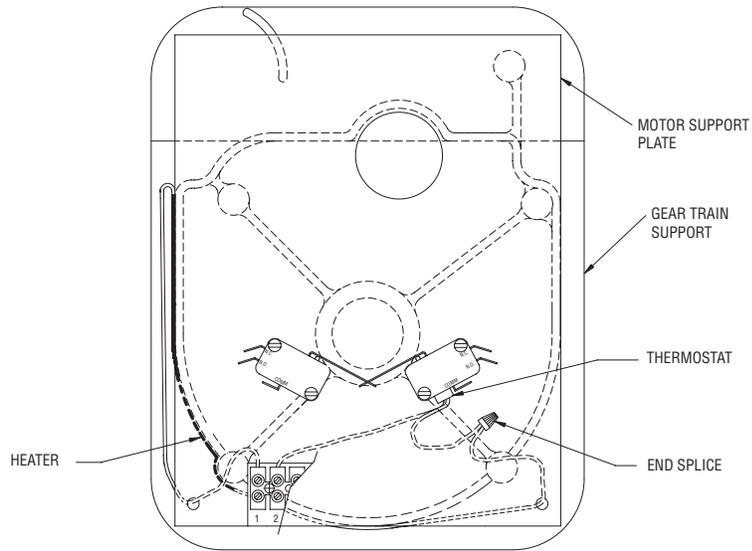
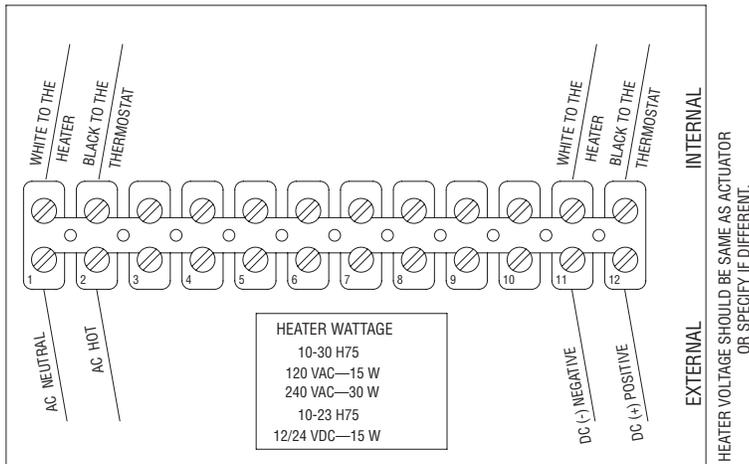


Figure 3—Wiring for 10-30 H75 Heater/Thermostat Option



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