

Operator: Save these instructions for future use!

FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

APPLICATION

This document provides installation and checkout procedures for the 57T01-843 Time Delay Relay.

WARNING

Hazardous voltage – disconnect power before servicing.

WARNING

This information is for use by individuals having adequate backgrounds of electrical and mechanical experience. Any attempt to repair a central air conditioning product may result in personal injury and/or property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

The 57T01-843 Time Delay Relay is for use in compressor-run air conditioning and heat pump systems to delay the blower shut-off after the compressor has shut off. This delay allows the residual cooled air to be blown into the controlled space, increasing the efficiency of the system in cooling. Depending on electrical hookup in a heat pump system, delay of blower shut-off could also occur in heating.

Relay switching has 80 (±16) second delay timing.

Installation of the new ETDR is the same, terminals are labeled the same, but are in a different physical location on the new part (see figs 1, 2, 3, 4).

CAUTION

All phases of this installation must comply with National, State and Local Codes.

SPECIFICATIONS

Electrical Ratings

Contact Ratings:	
Power Pole (Amperes per pole)—	
	208/240/277 VAC
Full Load	7
Locked Rotor	36
Resistive	15
U.L. Approved Horsepower	3/4 hp

Pilot Duty Pole	Min: 3 VA at 24 Max: 25 VA at 24 VAC
Min voltage req. for pickup	75 percent of nominal coil voltage
Input voltage	24 VAC nominal
Total Power Consumption	0.5 VA (relay deenergized) 4.0 VA (relay energized)

INSTALLATION

When installing this product...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

WARNING

Disconnect all electric power including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Failure to disconnect all power before servicing can cause severe personal injury or death.

INSTALLATION

Location

Mount the relay on a flat, solid surface inside the equipment control box. The relay may be panel- or wall-mounted with the base vertical or horizontal. If base is horizontal, it must be mounted with the terminals up. Secure with the two screws through holes or slots in the mounting base or as shown in Fig. 1.

Wiring

Disconnect power supply before connecting wiring to prevent electrical shock or equipment damage.

All wiring must comply with local codes and ordinances.

Crimp female quick-connects to the system wires, if needed, and attach to the male quick-connect terminals on the time delay board.

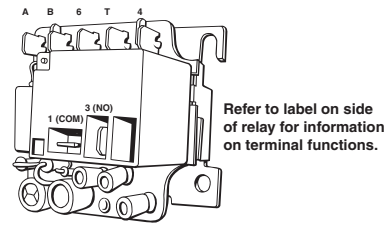
Terminal designations on 57T01-843 correspond directly to terminal designations on RLY02807 and RLY02257 relay. Therefore, wires are to be connected to the same lettered or numbered terminal on the 57T01-843 relay as they were on the RLY02807 and RLY02257 relay. For example, the wire connected to terminal #4 on RLY02807 or RLY02257 relay should be connected to terminal #4 on 57T01-843 relay, etc. Terminals 1 (COM) and 3 (N.O.) are high voltage fan relay terminals.

No Off Delay Wiring

For No Off delay operation remove the red wire from terminal "A" and the green wire from terminal "T." Take the red wire that was removed from terminal "A" and connect to terminal "T." Next take the green wire that was removed from terminal "T" and connect to terminal "A." You may hear a double click when energized which is normal.

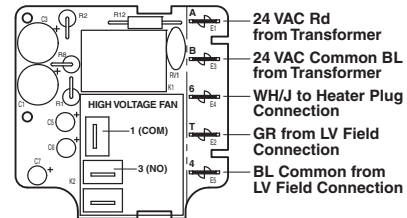
Make sure all wires are connected to the proper terminals on the time delay board for proper system operation. Refer to Figs. 1-4 for terminal designations and wiring connections.

Do not exceed contact and coil ratings when wiring into system.



Refer to label on side of relay for information on terminal functions.

Fig. 1. Mounting 57T01-843 on panel



24 VAC Rd from Transformer
24 VAC Common BL from Transformer
WH/J to Heater Plug Connection
GR from LV Field Connection
BL Common from LV Field Connection

Fig. 2. 57T01-843 Terminal Designations

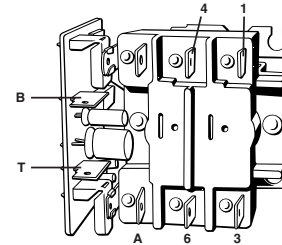
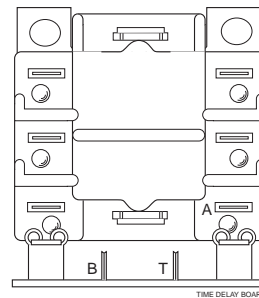


Fig. 3. Mounting 57T01-843 on panel



TERMINAL DESIGNATION	CONNECTION
A	24 Vac LINE (HOT SIDE)
B	24 Vac COMMON
T	FAN TERMINAL ON THERMOSTAT OR OTHER CONTROLLER

Fig. 4. 57T01-843 Circuit and terminal designations

OPERATION AND CHECKOUT

Operation

When the thermostat calls for indoor blower operation, an electronic switch in the electronic board pulls in and powers the relay coil. When the call ends, the electronic switch in the electronic board holds in the relay coil for an additional 80 seconds. This increases the efficiency of the equipment and saves energy.

NOTE: When power is initially applied during installation or after power interruption, the relay will pull in for a maximum of 0.5 seconds and then drop out.

Checkout

When power is initially applied, check to make sure the relay pulls in for not more than 0.5 seconds and drops out. Then operate the relay and controlled equipment to make sure that the relay pulls in when the T terminal is energized with 24 VAC and that controlled equipment operates as intended. Relay pulls in after a short on delay of 2 seconds (± 0.7). When the T terminal is deenergized (24 VAC removed), the indoor air blower should continue to operate until the delay period (80 seconds) ends.

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