

Supco TD69

Supco TD69 Time Delay On Make User Manual

Model: TD69 | Brand: Supco

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Supco TD69 Time Delay On Make timer. The TD69 is a compact, adjustable delay timer designed for various electrical applications, particularly in HVAC systems to prevent short-cycling of compressors. It offers a delay-on-make function, ensuring a set time passes before a circuit is energized.

2. SAFETY INFORMATION

WARNING: Always disconnect power before installing or servicing the TD69 timer. Installation should be performed by a qualified technician. Ensure all wiring complies with local electrical codes. Do not exceed the specified voltage and current ratings (1.0 amp steady, 10 amp inrush).

Failure to follow these safety instructions could result in electrical shock, fire, or damage to the product or connected equipment.

3. PRODUCT OVERVIEW

The Supco TD69 is a robust, non-positional time delay relay. It features an adjustable dial for setting the delay period and clearly marked terminals for input and load connections.



Figure 3.1: Front view of the TD69 timer, showing the adjustable dial for setting delay time and clearly labeled input/load terminals.



Figure 3.2: Angled perspective of the TD69 timer, highlighting its compact design and terminal connections.



Figure 3.3: Rear view of the TD69 timer, displaying the manufacturing origin and product information.

4. SETUP AND INSTALLATION

The TD69 timer is designed for single-hole mounting. Follow these steps for proper installation:

1. **Mounting:** Secure the timer using its single mounting hole in a suitable location, ensuring it is protected from excessive moisture or heat.
2. **Wiring:**
 - Identify the control circuit where the delay is required.
 - Connect the input terminals (marked 'INPUT') to the control voltage source (19 to 250 Volts AC or DC).
 - Connect the load terminals (marked 'LOAD') to the device you wish to delay.
 - For 110/220V applications, **cut the designated wire** as indicated on the unit for proper voltage configuration. Refer to the wiring diagram on the unit for specific instructions.
 - The unit can be used on 24-volt pilot circuits, with or without a cooling anticipator.

After installation, double-check all connections for security and proper polarity before restoring power.

5. OPERATING INSTRUCTIONS

The TD69 features an adjustable delay period from 0.1 minutes (6 seconds) to 8 minutes.

1. **Adjusting Delay:** Use a small flat-head screwdriver to carefully rotate the dial on the front of the unit. The dial is marked from 0.1 to 8, representing minutes. Turn clockwise to increase the delay and counter-clockwise to decrease it.
2. **Function:** The timer provides a 'delay on make' function. This means that once the input voltage is applied, the timer will wait for the set delay period before closing the circuit to the load. This is particularly useful for preventing rapid cycling of equipment like air conditioning compressors, allowing them to rest between cycles.

6. MAINTENANCE

The Supco TD69 is designed for long-term, maintenance-free operation. To ensure optimal performance and longevity:

- Periodically inspect the wiring connections to ensure they are secure and free from corrosion.
- Keep the unit free from excessive dust, dirt, or moisture.
- Do not attempt to disassemble the unit; there are no user-serviceable parts inside.

7. TROUBLESHOOTING

If you encounter issues with your TD69 timer, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Unit does not activate after delay	• No input voltage • Incorrect wiring • Delay setting too short or at '0' • Defective unit	• Verify input voltage is present and within specifications (19-250V AC/DC). • Check all wiring connections for looseness or corrosion. Ensure correct terminals are used. • Adjust the delay dial to a noticeable time setting. • If all else fails, the unit may be defective and require replacement.
Delay period is incorrect or inconsistent	• Dial not set accurately • Incorrect voltage configuration (for 110/220V)	• Re-adjust the dial to the desired setting using a screwdriver. • Ensure the correct wire is cut for 110/220V applications if applicable, as per the unit's instructions.

8. SPECIFICATIONS

Feature	Specification
Brand	Supco
Model Number	TD69
Material	Plastic
Item Weight	1.76 ounces (0.11 Pounds)
Product Dimensions	3.5 x 1.5 x 5.5 inches
Number of Settings	1 (Adjustable Delay)
Delay Range	0.1 minutes (6 seconds) to 8 minutes
Current Rating	1.0 amp steady, 10 amp inrush
Voltage Compatibility	19 to 250 Volts AC or DC (can be used on 24 volt pilot circuits)
Mounting	Single Hole Mounting, Non-positional
Manufacturer	SUPCO
UPC	687152034314

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to inquire about replacement parts, please contact Supco customer service. Refer to the product packaging or the official Supco website for the most current contact details and warranty terms.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question