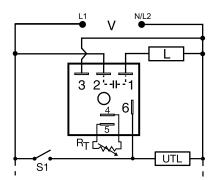
THDB SERIES





Wiring Diagram



V = Voltage UTL = Optional Untimed Load L =Timed Load S1 = Initiate Switch

R_T is used when external adjustment is ordered.

Description

The THDB Series combines accurate timing circuitry with high power, solid-state switching. It can switch motors, lamps, and heaters directly without a contactor. You can reduce labor, component cost, and increase reliability with these small, easy-to-use, timers.

Operation (Delay-on-Break)

Input voltage must be applied before and during timing. Upon closure of the initiate switch, the output energizes. The time delay begins when the initiate switch is opened. The output remains energized during timing. At the end of the time delay, the output de-energizes. The output energizes if the initiate switch is closed when input voltage is applied.

Reset: Reclosing the initiate switch during timing resets the time delay. Loss of input voltage resets the time delay and output.

Features & Benefits

FEATURES	BENEFITS		
Microcontroller based	Repeat accuracy + / - 0.5%, Factory calibration + / - 1%		
High load currents up to 20A, 200A inrush	Allows direct operation of motors, lamps and heaters without a contactor		
Totally solid state and encapsulated	No moving parts to arc and wear out over time and encapsulated to protect against shock, vibration, and humidity		
Metalized mounting surface	Facilitates heat transfer in high current applications		
Compact, low cost design	Allows flexibility for OEM applications and reduces labor and components costs		

Accessories



P1004-95, P1004-95-X Versa-Pot

Panel mountable, industrial potentiometer recommended for remote time delay adjustment.



P0700-7 Versa-Knob

Designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.



P1015-64 (AWG 14/16)

Female Quick Connect

These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



P1015-18 Quick Connect to Screw Adapter

Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male guick connect terminals.

Ordering Information

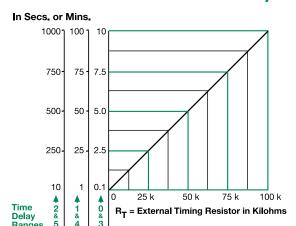
MODEL	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY	OUTPUT RATING
THDB421A	120VAC	External	1 - 100s	6A
THDB434C	120VAC	Onboard	1 - 100m	20A

If you don't find the part you need, call us for a custom product 800-843-8848



THDB SERIES

External Resistance vs. Time Delay

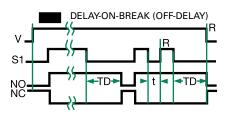


This chart applies to externally adjustable part numbers. The time delay is adjustable over the time delay range selected by varying the resistance across the R_T terminals; as the resistance increases the tie

When selecting an external R_{T} , add the tolerances of the timer and the R_{T} for the full time range adjustment.

Examples: 1 to 50 S adjustable time delay, select time delay range 1 and a 50 K ohn R_T . For 1 to 100 S use a 100 K ohm R_T .

Function Diagram



V = VoltageS1 = Initiate Switch NO = Normally **Open Contact** NC = Normally **Closed Contact** TD = Time Delay t = Incomplete Time Delay R = Reset ⟨ = Undefined

Time

Specifications

0.1s - 1000m in 6 adjustable ranges or fixed Range **Repeat Accuracy** ±0.5% or 20ms, whichever is greater **Tolerance**

(Factory Calibration) ≤ ±1% **Reset Time** ≤ 150ms **Initiate Time** ≤ 20ms Time Delay vs Temp.

& Voltage $\leq \pm 2\%$

Input

Voltage 24, 120, or 230VAC

Tolerance ±20% **AC Line Frequency** 50/60 Hz **Power Consumption** $\leq 2VA$

Output

Type Solid state Form NO, closed before & during timing

Maximum Load Current	Output	Steady State	Inrush**
	Ā	6A	60A
	В	10A	100A
	С	20A	200A

Voltage Drop ≈ 2.5V @ rated current ≈ 5mA @ 230VAC Off State Leakage Current **Minimum Load Current** 100mA

Protection

Circuitry Encapsulated

Dielectric Breakdown ≥ 2000V RMS terminals to mounting surface **Insulation Resistance** $\geq 100 \ M\Omega$

Mechanical

Mounting ** Surface mount with one #10 (M5 x 0.8) screw

H 50.8 mm (2.0"); **W** 50.8 mm (2.0"); **Dimensions D** 38.4 mm (1.51")

Termination 0.25 in. (6.35 mm) male quick connect terminals

Environmental

Operating/Storage

Temperature -40° to 60°C / -40° to 85°C Humidity 95% relative, non-condensing

Weight $\approx 3.9 \text{ oz } (111 \text{ g})$

^{**}Must be bolted to a metal surface using the included heat sink compound. The maximum surface temperature is 90°C. Inrush: Non-repetitive for 16ms.

单击下面可查看定价,库存,交付和生命周期等信息

>>Littelfuse(美国力特)