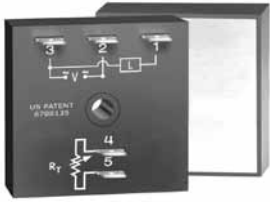


Interval THD2 Digi-Power Power Timing Module



5

- High Load Currents up to 20 A, 200 A Inrush
- Fixed or Adjustable Delays From 0.1 s ... 1000 m
- +/-0.5% Repeat Accuracy
- +/-1% Factory Calibration
- 24, 120, or 230 V AC
- Metallized Mounting Surface for Efficient Heat Transfer
- Totally Solid State and Encapsulated

Approvals:

Description

The THD 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, Digi-Power timers.

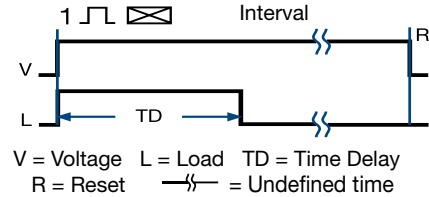
Operation

Upon application of input voltage, the time delay begins. The output energizes during the time delay. At the end of the time delay, the output de-energizes and remains de-energized until input voltage is removed.

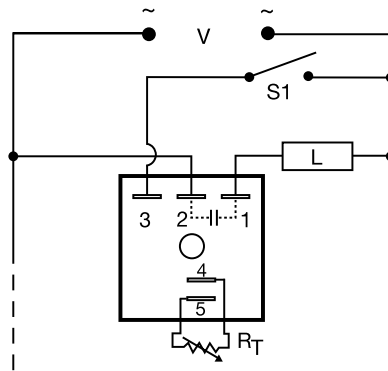
Reset:

Removing input voltage resets the time delay and the output.

Function



Connection



R_T is used when external adjustment is ordered.
Dashed lines are internal connections.
S1 = Optional Low Current Initiate Switch

Accessories

B
A
External adjust potentiometer
P/Ns:
P1004-95 (fig A)
P1004-95-X (fig B)

Female quick connect
P/Ns:
P1015-64 (AWG 14/16)
P1015-13 (AWG 10/12)

Quick connect to screw adaptor
P/N: P1015-18

Versa-knob
P/N: P0700-7

See accessory pages for specifications.

Available Models-

THD2A4110M	THD2A41300M	THD2A6110M
THD2B41600S	THD2C230	THD2C423
THD2C425	THD2C433	

Don't see what you need? Call us for a minimum quantity and price quote!

Ordering Table

THD2 Series	X Output Rating	X Input	X Adjustment	X Time Delay *
	A - 6 A	2 - 24 V AC	1 - Fixed	0 - 0.1 ... 10 s
	B - 10 A	4 - 120 V AC	2 - External Adjust	1 - 1.0 ... 100 s
	C - 20 A	6 - 230 V AC	3 - Onboard Adjust	2 - 10 ... 1000 s
				3 - 0.1 ... 10 m
				4 - 1 ... 100 m
				5 - 10 ... 1000 m

Example P/N: THD2A620 Fixed - THD2C410.1S

*If Fixed Delay is selected, insert delay [0.1...1000] followed by (S) secs. or (M) mins.

Interval THD2 Digi-Power Power Timing Module

Dedicated
timers

Technical Data

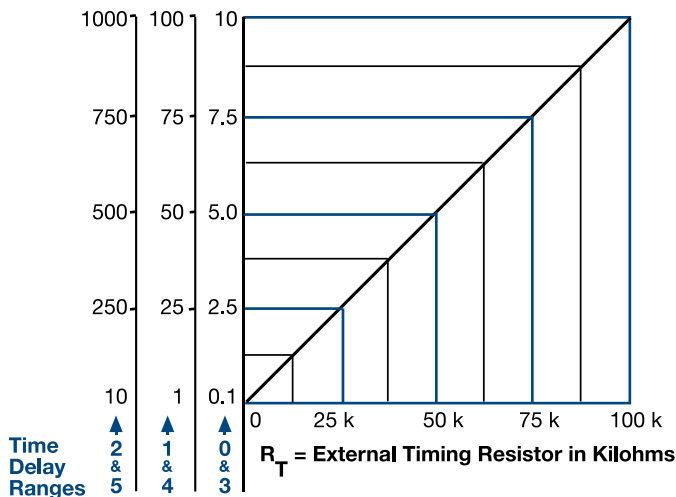
Time Delay			
Range	0.1 s ... 1000 ms in 6 adjustable ranges or fixed		
Repeat Accuracy	+/-0.5% or 20 ms, whichever is greater		
Tolerance (Factory Calibration)	≤ +/-1%		
Reset Time	≤ 150 ms		
Time Delay vs. Temperature & Voltage	≤ +/-2%		
Input			
Voltage	24, 120, or 230 V AC		
Tolerance	+/-20%		
Line Frequency	50 ... 60 Hz		
Output			
Type	Solid state		
Form	Normally Open, closed during timing		
Maximum Load Current	Output	Steady State	Inrush**
	A	6 A	60 A
	B	10 A	100 A
	C	20 A	200 A
Minimum Load Current	100 mA		
Voltage Drop	≅ 2.5 V at rated current		
OFF State Leakage Current	≅ 5 mA at 230 V AC		
Protection			
Circuitry	Encapsulated		
Dielectric Breakdown	≥ 2000 V RMS terminals to mounting surface		
Insulation Resistance	≥ 100 MΩ		
Mechanical			
Mounting **	Surface mount with one #10 (M5 x 0.8) screw		
Termination	0.25 in. (6.35 mm) male quick connect terminals		
Environmental			
Operating/Storage Temperature	-40°C ... +60°C / -40°C ... +85°C		
Humidity	95% relative, non-condensing		
Weight	≅ 3.9 oz (111 g)		

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

5

External Resistance vs Time Delay

In Secs. or Mins.



This chart applies to externally adjustable part numbers.

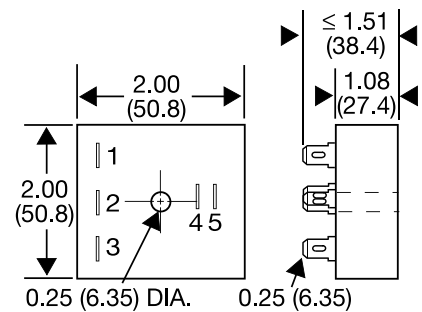
The time delay is adjustable over the time delay range selected by varying the resistance across the R_T terminals; as the resistance increases the time delay increases.

When selecting an external R_T , add the tolerances of the timer and the R_T for the full time range adjustment.

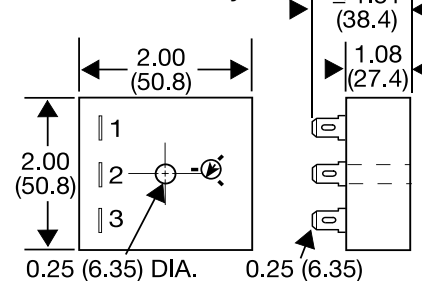
Examples: 1 to 50 S adjustable time delay, select time delay range 1 and a 50 K ohm R_T . For 1 to 100 S use a 100 K ohm R_T .

Mechanical View

Fixed & External Adjust



Onboard Adjust



Inches (Millimeters)