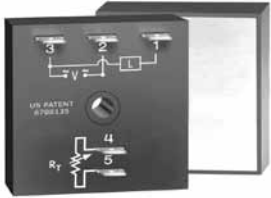


Interval (Impulse - ON)

TH2 Series

Power Timing Module

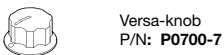
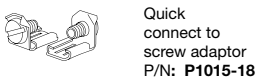
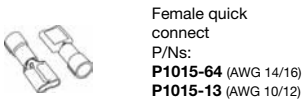
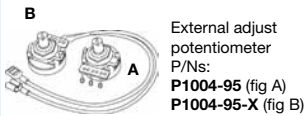


5

- High Load Current Capacity up to 20 A, 200 A Inrush
- Fixed or Adjustable Time Delays From 0.1 ... 600 s in 4 ranges
- +/-2% Repeat Accuracy
- +/-5% Factory Calibration
- Metallized Mounting Surface for Efficient Heat Transfer
- Solid State & Encapsulated

Approvals:

Accessories



See accessory pages for specifications.

Description

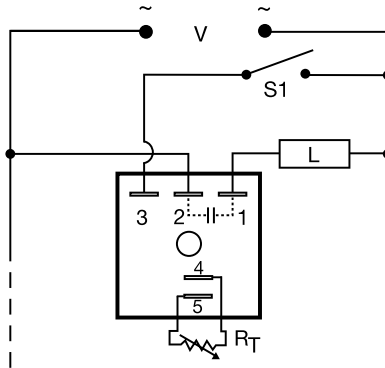
The TH2 is the combination of a timer and a solid state relay into one easy-to-use solid state molded module. When mounted to a metal surface, the TH2 Series can switch load currents up to 20 A steady state with 200 A inrush. The TH2 replaces a timer and contactor at a competitive price.

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.

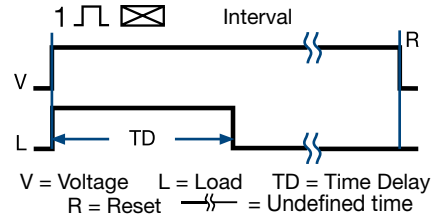
Reset: Removing input voltage resets the time delay and output.

Connection



R_T is used when external adjustment is ordered. Dashed lines are internal connections. S1 is an optional low current initiate switch.

Function



Available Models-

TH2A4112.5	TH2A4130	TH2A421
TH2A611	TH2A621	TH2B421
TH2B622	TH2B631	

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

Ordering Table

TH2 Series	X Output Rating	X Input	X Adjustment	X Time Delay *
	-A - 6 A	-2 - 24 V AC	-1 - Fixed	-1 - 0.1 ... 3 s
	-B - 10 A	-4 - 120 V AC	-2 - External Adjust	-2 - 0.5 ... 60 s
	-C - 20 A	-6 - 230 V AC	-3 - Onboard Adjust	-3 - 2 ... 180 s
				-4 - 5 ... 600 s

Example P/N: TH2C422 Fixed – TH2A410.5

* If Fixed Delay is selected, insert delay [0.1 ... 600] in seconds.

Interval (Impulse - ON)

TH2 Series

Power Timing Module

Dedicated
timers

Technical Data

Time Delay	0.1 s ... 600 s in 4 adjustable ranges, or fixed		
Range	+/-2% or 20 ms, whichever is greater		
Repeat Accuracy	≤ +/-5%		
Tolerance (Factory Calibration)	≤ +/-10%		
Time Delay vs. Temperature and Voltage	≤ 150 ms		
Reset Time	≤ 150 ms		
Input	24, 120, or 230 V AC		
Voltage	+/-15%		
Tolerance	50 ... 60 Hz		
Line Frequency	≤ 2 VA		
Power Consumption	Solid state		
Output	Normally Open, closed during timing		
Type	Output	Steady State	Inrush**
Form	A	6 A	60 A
Maximum Load Currents	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	Encapsulated		
Circuitry	≥ 2000 V RMS terminals to mounting surface		
Dielectric Breakdown	≥ 100 MΩ		
Insulation Resistance	Surface mount with one #10 (M5 x 0.8) screw		
Mechanical	2 x 2 x 1.51 in. (50.8 x 50.8 x 38.4 mm)		
Mounting **	0.25 in. (6.35 mm) male quick connect terminals		
Package			
Termination			
Environmental	-20°C ... +60°C		
Operating Temperature	-40°C ... +85°C		
Storage Temperature	95% relative, non-condensing		
Humidity	≅ 3.9 oz (111 g)		
Weight			

**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.

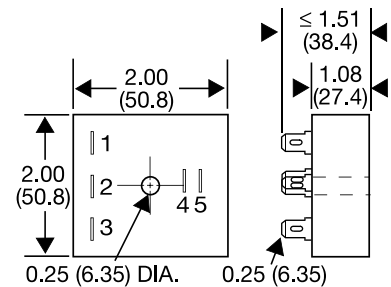
5

Desired Time Delay*					R _T
Seconds					
1	2	3	4	Kohms	
0.1	0.5	2	5	0	
0.3	6	20	60	10	
0.6	12	38	120	20	
0.9	18	55	180	30	
1.2	24	73	240	40	
1.5	30	90	300	50	
1.8	36	108	360	60	
2.1	42	126	420	70	
2.4	48	144	480	80	
2.7	54	162	540	90	
3.0	60	180	600	100	

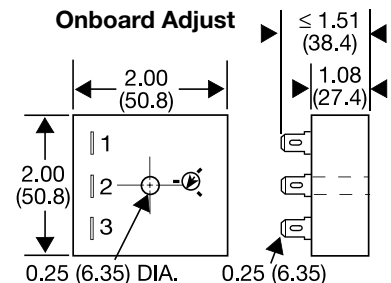
* When selecting an external R_T add at least 15% for tolerance of unit and the R_T.

Mechanical View

Fixed & External Adjust



Onboard Adjust



Inches (Millimeters)