

Delay On Make - Normally Closed

TS4 Series

Versa Timing Module

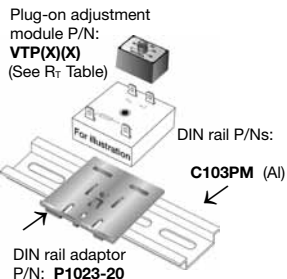
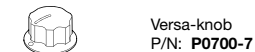
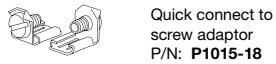
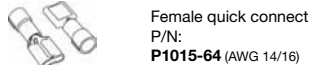
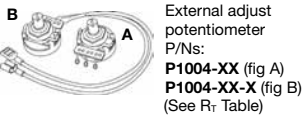


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- Load Energized Prior To and During Time Delay
- Fixed or Adjustable Delays
- 0.05 ... 600 s in 4 Ranges
- +/-2% Repeat Accuracy
- 24, 120, or 230 V AC
- 1A Solid State Output
- Encapsulated

Approvals:

Accessories



See accessory pages for specifications.

Description

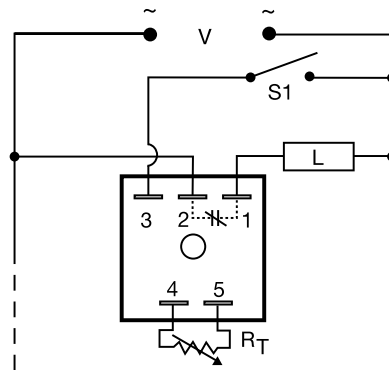
The TS4 Versa-Timer is an analog delay on make timer with a normally closed solid state output. Unlike an Interval Timer, the load is energized prior to and during the time delay period. It can be used as a faster starting Interval time delay when S1 is closed upon application of input voltage.

Operation

Upon application of input voltage, the load is energized immediately. When the initiate switch is closed, the time delay begins. At the end of the time delay, the load de-energizes.

Reset: When the initiate switch is reopened, the load again energizes and the time delay is reset. Removing input voltage resets the time delay and output.

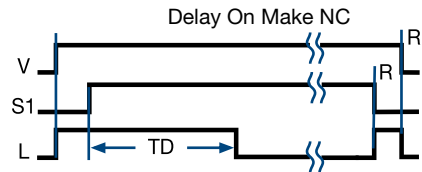
Connection



S1 = Initiate Switch

R_T is used when external adjustment is ordered.
Dashed lines are internal connections.

Function



V = Voltage R = Reset L = Load
TD = Time Delay S1 = Initiate Switch
— = Undefined time

R_T Selection Table

Time Delay	VTP P/N	Fig. A P/N	Fig. B P/N
1 - 0.05 ... 3 s	VTP4B	P1004-12	P1004-12-X
2 - 0.5 ... 60 s	VTP4F	P1004-12	P1004-12-X
3 - 2 ... 180 s	VTP4J	P1004-12	P1004-12-X
4 - 5 ... 600 s	VTP5N	P1004-13	P1004-13-X

Available Models-

TS421240
TS4422

TS441180

TS441300

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Ordering Table

TS4 Series	X Input	X Adjustment	X Time Delay*
-2-	24 V AC	-1 - Fixed	-1 - 0.05 ... 3 s
-4-	120 V AC	-2 - External Adjust	-2 - 0.5 ... 60 s
-6-	230 V AC		-3 - 2 ... 180 s
			-4 - 5 ... 600 s

Example P/N: TS4624 Fixed – TS4410.5

*If Fixed Delay is selected, insert delay [0.05 ... 600] in seconds.

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Dedicated
timers

Technical Data

Time Delay Type Range Repeat Accuracy Tolerance (Factory Calibration) Time Delay vs. Temperature & Voltage Recycle Time	Analog circuitry 0.05 ... 600 s in 4 adjustable ranges or fixed +/-2% or 20 ms, whichever is greater; under fixed conditions ≤ +/-10% ≤ +/-10% ≤ 150 ms
Input Voltage Tolerance Line Frequency	24, 120, or 230 V AC +/-20% 50 ... 60 Hz
Output Type Form Maximum Load Current Voltage Drop	Solid state Normally Closed, closed during timing 1 A steady state, 10 A inrush at 60°C ≅ 2.5 V at 1 A
Protection Circuitry Dielectric Breakdown Insulation Resistance	Encapsulated ≥ 2000 V RMS terminals to mounting surface ≥ 100 MΩ
Mechanical Mounting Package Termination	Surface mount with one #10 (M5 x 0.8) screw 2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm) 0.25 in. (6.35 mm) male quick connect terminals
Environmental Operating Temperature Storage Temperature Humidity Weight	-40°C ... +75°C -40°C ... +85°C 95% relative, non-condensing ≅ 2.4 oz (68 g)

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R _T Selection Chart				
Desired Time Delay*				R _T
Seconds				
1	2	3	4	Megohm
0.05	0.5	2	5	0.0
0.5	10	30	60	0.5
1.0	20	60	120	1.0
1.5	30	90	180	1.5
2.0	40	120	240	2.0
2.5	50	150	300	2.5
3.0	60	180	360	3.0
			420	3.5
			480	4.0
			540	4.5
			600	5.0

* When selecting an external R_T add at least 20% for tolerance of unit and the R_T.

Mechanical View

