**ABB SSAC** TDM01A01 02.17.03

# **Delay On Make (Operate)** TDML, TDM, TDMH Series Time Delay Relay





- Digital Integrated Circuitry
- Switch Setable Time Delay
- Three Time Ranges from 100 ms ... Over 2.8 h
  +/-0.1% Repeat Accuracy
- +/-2% Setting Accuracy
- DPDT, 10 A Output Contacts
- LED Indication

#### Description

The TDM Series is a delay-on-make timer that combines accurate digital circuitry with isolated DPDT relay contacts in an industry standard 8 pin plug-in package. DIP switch adjustment allows precise selection of the time delay over the full time delay range. The TDM Series is the product of choice for custom control panel and OEM designers.

### Operation

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

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

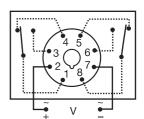
■ Approvals: **% (€** 



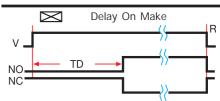




 $^{\star\star}$  8 pin models used in combination with Y P1011 6 socket only



Relay contacts are isolated. Dashed lines are internal connections.



V = Voltage TD = Time Delay R = Reset NO = Normally Open NC = Normally Closed — = Undefined time

## Ordering Table

# Series/Time Range

- TDML - 0.1 ... 102.3 s in 0.1 s increments 1 ... 1023 s in 1 s increments - TDM -- TDMH - 10 ... 10,230 s in 10 s increments

Example P/N: TDM120AL

**Technical Data** 

Time Delay

Type Range<sup>3</sup>

### Input **LED Indication** 12D - 12 V DC

Digital integrated circuitry

0.1 ... 102.3 s adj. in 0.1 s increments

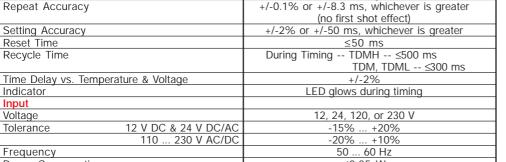
1 ... 1023 s adj. in 1 s increments 10 ... 10,230 s adj. in 10 s increments

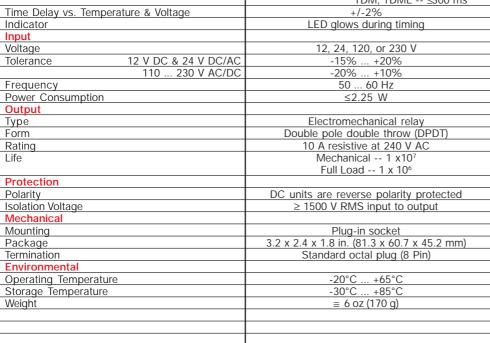
24A - 24 V AC 24D - 24 V DC/28 V DC

-110D - 110 V DC -120A - 120 V AC

-230A - 230 V AC

#### Digi-Set Binary Switch Operation 0.1...102.3 1...1023 10...10,230 OFF ►ON OFF ►ON OFF ►ON 20 **=** 40 **=** 0.8 80= 1.6 = 3.2 = 6.4 = 160**=** 320**=** 640**=** 1280 **=** 2560 **=** 128 25.6 512 5120**=** 544 S





<sup>≤1.78 -</sup>2.91(73.9) (45.2)≤3.20 (81.3) Inches (Millimeters)

## **Accessories** Octal Panel mount kit 8-pin socket P/N: NDS-8 P/N: BZ1 DIN rai P/N· C103PM Hold down clips P/N: PSC8 驱 See accessory pages at the end of this section.

<sup>\*</sup>For CE approved applications, power must be removed from the unit when a switch position is changed