CMOS IC digital timing
Multi-board construction
Relays are sealed
Proven circuitry
Standard octal (8 pin), magnal (11 pin) plug-ins or 4.75 mm (0.187”) blade terminal mountings

Fixed or variable time adjustment
Optional remote time adjustment
Up to 24 hrs standard, 72 hrs optional
0.1% Repeat accuracy
100% Operational testing before shipping

Input Voltages: VAC: 24, 120, 230, 50/60Hz
VDC: 12, 24
Special AC or DC voltages available
Operating Voltage: ±20% of nameplate voltage
Relay Contact Ratings: 5 amp DPDT, 10 amp DPDT Optional
Repeat Accuracy: ±0.1% under fixed operating conditions
Reset Time: 50 milliseconds
Tolerances: Fixed: ±10%, Optional: ±5%, ±1%
Variable: +20%, -0, Optional: +10%, -0%

Life Expectancy:
Mechanical: 1 million operations
Electrical: Up to 100,000 operations at full current load

Protection:
Polarity Protection: All DC units have reverse polarity protection
Transient Protection: 25 joules

Temperature Ranges:
Storage: -40°C to +85°C
Operating: -25°C to +65°C

Housing Material: High-impact, UL-approved black Lexan
### Mode of Operation

<table>
<thead>
<tr>
<th>Delay On Break</th>
<th>Series</th>
<th>Input Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNM</td>
<td>1</td>
<td>120 VAC</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>230 VAC</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>24 VAC</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>24 VDC</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>12 VDC</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>SPECIAL AC</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>SPECIAL DC</td>
</tr>
</tbody>
</table>

#### Examples of Time Ranges

**VARIABLE TIME PERIODS**

<table>
<thead>
<tr>
<th>Example</th>
<th>0001</th>
<th>.1 to 1 sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010</td>
<td>.1 to 10 sec.</td>
<td></td>
</tr>
<tr>
<td>0100</td>
<td>1 to 100 sec.</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>10 to 1000 sec.</td>
<td></td>
</tr>
</tbody>
</table>

Any range up to 24 hours available on special order.

**FIXED TIME PERIODS**

- Specify time in full seconds or hours followed by the letter "S" or "H" and the decimal amount of the main time unit.
- Examples: 5S5 is 5.5 secs, 5H5 is 5.5 hours

**Tolerance**

- X: Standard (Fixed: ± 10%, Variable: + 20%, -0%)
- E: Optional (Fixed, ±1%)
- G: Optional (Adjust: +10%, -0%)

**Time Adjust. Method**

- A: Variable knob on timer
- C: Factory-fixed time

**Base Style**

- 1: 8 Pin Round Octal Base
- 2: 11 Pin Round Magnal Base
- 3: 11 Pin Spade 187 Quick Connect

**Options**

- X: Standard 5 amps
- H: 10 amps (6 amps UL Recognized for USA and Canada.)

**EXAMPLE**

```
TNM 3 0010 X A 1 H
```

This is a "TN" series timer, Delay On Break, 24 volt AC, 10 second variable time period (standard tolerance), with adjustment knob on timer, 8 pin octal base, 10 amp relay.

Specifications subject to change without notice.