# TMR 48 analog timers

- Multi-function or mono-function
- Multi-range from 0.02 s to 300 h
- Multi-voltage 12 to 240 VDC / 24 to 240 V AC
- Time setting displayed on dial
- 2 changeover relays 5 A / 250 VAC
- Display of power and output states by 2 LEDs
- Housing 48 x 48 mm

## Specifications

<table>
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<th>Type</th>
<th>Functions</th>
<th>Relay outputs</th>
<th>Max. breaking current</th>
<th>Supply voltage</th>
<th>Connection</th>
<th>Part Number</th>
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</thead>
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<tr>
<td>TMR 48 A</td>
<td>A</td>
<td>2 timed changeover</td>
<td>5 A / 250 VAC</td>
<td>12 → 240 VDC 24 → 240 VAC</td>
<td>Plug-in 8 pin</td>
<td>88 886 106</td>
</tr>
<tr>
<td>TMR 48 X</td>
<td>A1, A2, H1, H2, Q1, Q2, D-Ui</td>
<td>2 changeover or 1 timed and 1 instantaneous</td>
<td>5 A / 250 VAC</td>
<td>12 → 240 VUL 24 → 240 VAC</td>
<td>Plug-in 8 pin</td>
<td>88 886 116</td>
</tr>
<tr>
<td>TMR 48 L</td>
<td>L, Li, G, Ci</td>
<td>2 timed changeover</td>
<td>5 A / 250 VAC</td>
<td>12 → 240 VDC 24 → 240 VAC</td>
<td>Plug-in 11 pin</td>
<td>88 886 516</td>
</tr>
</tbody>
</table>

## Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Part Number</th>
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<tr>
<td>11-pin connector base</td>
<td>SA11NN</td>
<td>S11</td>
<td>25 622 080</td>
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<tr>
<td>8-pin connector base</td>
<td>SA8NN S08</td>
<td>S08</td>
<td>25 622 130</td>
</tr>
<tr>
<td>Spring clips (packet of 2)</td>
<td>79 237 740</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## General characteristics

- Supply voltage Un
  - 12 → 240 VDC 24 → 240 V AC
- Operating range
  - ± 10 % DC supply
  - - 15 % / + 10 % AC supply
- Frequency
  - 50 / 60 Hz
- Power consumption
  - 4.8 VA / 230 VAC
  - 2.5 VA / 110 VAC
  - 1.1 VA / 24 VAC
  - 0.5 W / 24 VDC
  - 0.8 W / 12 VDC
- Timing ranges (14 available options)
  - 0.02 → 1.2 s
  - 0.05 → 3 s
  - 0.5 → 30 min.
  - 2 → 120 min.
  - 0.2 → 12 s
  - 2 → 120 min.
  - 0.5 → 30 s
  - 5 → 300 min.
  - 2 → 120 s
  - 5 → 300 s
- Repetition accuracy
  - ± 0.5 % of full scale at 25°C (typical with constant parameters)
- Temperature drift according to CEI/EN 61812
  - ± 0.05 % of full scale
- Display accuracy
  - ± 5 % of full scale at 25°C
- Minimum pulse duration START
  - 25 ms
- Minimum pulse duration GATE
  - 60 ms
- Minimum pulse duration RESET
  - 60 ms
- Output specification
  - Nominal rating
    - 2 x 5 A
  - Nominal insulation voltage
    - 250 VAC
  - Hated power (resistive load)
    - 2000 VA
  - Minimum current
    - 10 mA
  - Electrical life at I max. 250 V AC resistive (number of operations)
    - 10^6
  - Mechanical life (operations)
    - 30 x 10^6
- Display of output state by 2 LEDs
  - Green : power ON, flashing during timing
  - Yellow : ON output ON, OFF output OFF
- Operating temperature range (°C)
  - -20 → +55
- Storage temperature range (°C)
  - -40 → +70
- Breakdown voltage
  - 2 KV
- Protection class (IEC 60529) - Panel-mounted
  - IP 50
- Protection class (IEC 60529) - Casing
  - IP 40
- Material housing
  - self-extinguishing
- Weight (g)
  - 140

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Order/Technical Support – Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com
**Dimensions**

35 mm DIN rail base with clips 79 237 739

Panel cut-out

**Connections**

TMR 48 U / A / X / L

**Time Function Curves**

Function A (TMR 48 A)
Delay on make (delay on energisation)

Function H1
Timing on energisation - interval

Function Q1
Star-delta

Function A1
Delay on make (delay on energisation)

Function H2
Timing on energisation - interval

Function A2
Delay on make (delay on energisation)