Analogue TMR 48

TMR 48

- 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

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<th>Relay outputs</th>
<th>Max. breaking current</th>
<th>Supply voltage</th>
<th>Connection</th>
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<td>A, B, C, W, G, Ac, Bw</td>
<td>2 timed changeover</td>
<td>5 A / 250 VAC</td>
<td>12 → 240 VDC</td>
<td>Plug-in 11 way</td>
<td>88 886 016</td>
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<td>24 → 240 VAC</td>
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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</td>
<td>Plug-in 8 way</td>
<td>88 886 106</td>
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<td>24 → 240 VAC</td>
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<tr>
<td>TMR 48 X</td>
<td>A1, A2, H1, H2, Q1, Q2, D-Di</td>
<td>2 changeover or 1 timed</td>
<td>5 A / 250 VAC</td>
<td>12 → 240 VDC</td>
<td>Plug-in 8 way</td>
<td>88 886 116</td>
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<td>and 1 instantaneous</td>
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<td>24 → 240 VAC</td>
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<td>TMR 48 L</td>
<td>L, Li, G, Gi</td>
<td>2 timed changeover</td>
<td>5 A / 250 VAC</td>
<td>12 → 240 VDC</td>
<td>Plug-in 11 way</td>
<td>88 886 516</td>
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<td>24 → 240 VAC</td>
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</tbody>
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Accessories

- 11-pin connector base: 25 622 080
- 8-pin connector base: 25 622 130
- Spring clips (packet of 2): 79 237 740
- Black front face. For grey and other colours: please consult us

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 0.2 → 12 min. 0.2 → 12 h
  - 0.05 → 3 s 0.5 → 30 min. 0.5 → 30 h
  - 0.2 → 12 s 2 → 120 min. 2 → 120 h
  - 0.5 → 30 s 5 → 300 min. 5 → 300 h
  - 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
- Start-up delay after power cut (START linked): 50 ms

Output specification

- Nominal rating: 2 x 5 A
- Nominal insulation voltage: 250 VAC
- Rated power (resistive load): 2000 VA
- Minimum current: 10 mA
- Electrical life at I max. 250 V AC resistive (number of operations): 10^7
- Mechanical life (operations): 30 x 10^7

Function and use

- 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

To order, see page 6
Dimensions

TMR 48 U / A / X / L

Connector base - 25 622 080 - 25 622 130

Panel cut-out

Connections

TMR 48 U

TMR 48 A

TMR 48 X

TMR 48 L

Curves

Function A (TMR 48 A)
Delay on energisation

Function A1
Delay on energisation

Function A2
Delay on energisation

Function H1
Timing on energisation

Function H2
Timing on energisation

Function Q1
Star-delta

For more information www.crouzet.com
Function Q2
Star-delta 2

Function D-Di
Cyclic timing: symmetric recycler

Function A (TMR 48 U)
Delay on energisation

Function B
Timing on impulse

Function C
Timing after impulse - Delay off with constant supply

Function W
Timing after impulse on control contact

Function G
Cyclic function

Function Ac
Timing after closing and opening of control contact

Function Bw
Pulse output (adjustable)

Function L/LI - G/Gi
Cyclic timing: asymmetrical recycler