

TMR 48 analogue timers

→ 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

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

Accessories

Accessories	Code
11-pin connector base	25 622 080
8-pin connector base	25 622 130
Spring clips (packet of 2)	79 237 740

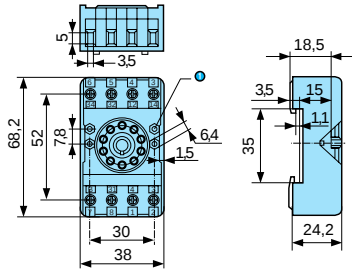
General characteristics

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
	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 ⁵
Mechanical life (operations)	30 x 10 ⁶
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

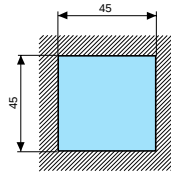
To order, see page 6

Dimensions

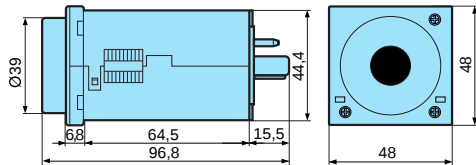
35 mm DIN rail base with clips 79 237 739



Panel cut-out

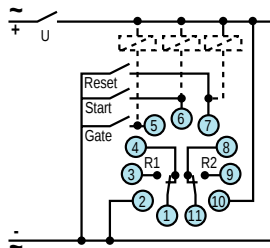


TMR 48 U / A / X / L

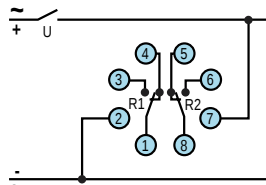


Connections

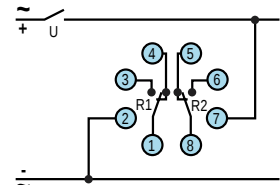
TMR 48 U



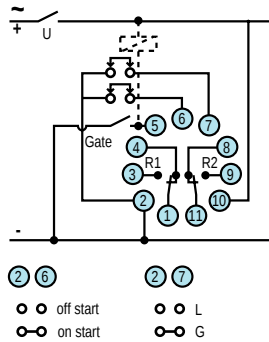
TMR 48 A



TMR 48 X

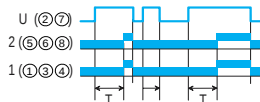


TMR 48 L

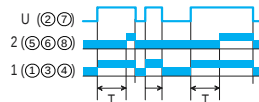


Curves

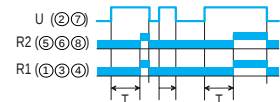
Function A (TMR 48 A)
Delay on energisation



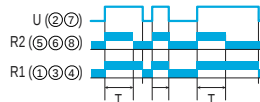
Function A1
Delay on energisation



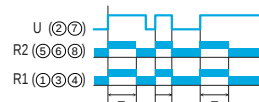
Function A2
Delay on energisation



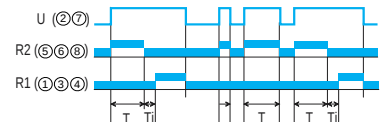
Function H1
Timing on energisation



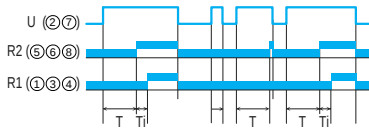
Function H2
Timing on energisation



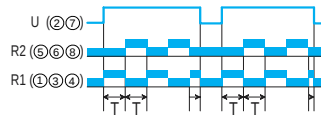
Function Q1
Star-delta



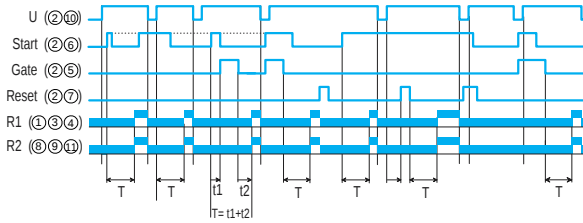
Function Q2 Star-delta 2



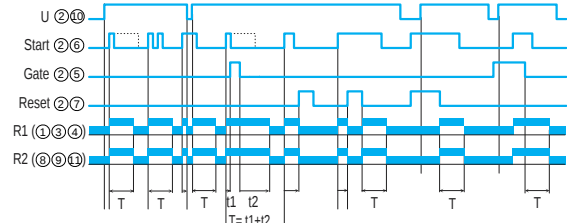
Function D-Di Cyclic timing : symetric recycler



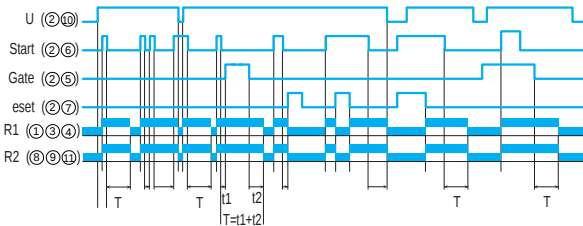
Function A (TMR 48 U) Delay on energisation



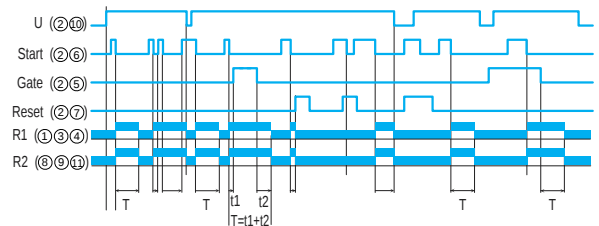
Function B Timing on impulse



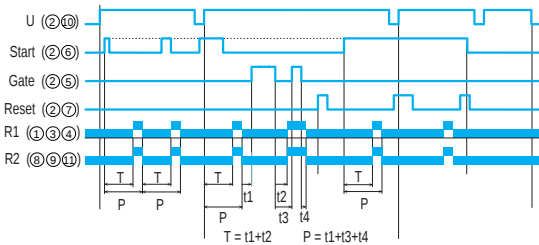
Function C Timing after impulse- Delay off with constant supply



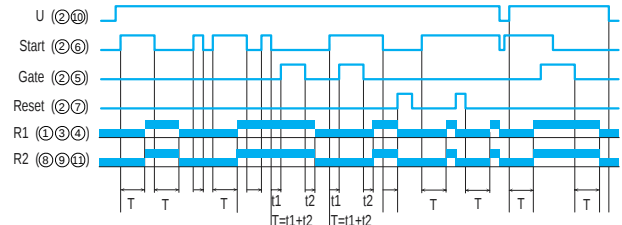
Function W Timing after impulse on control contact



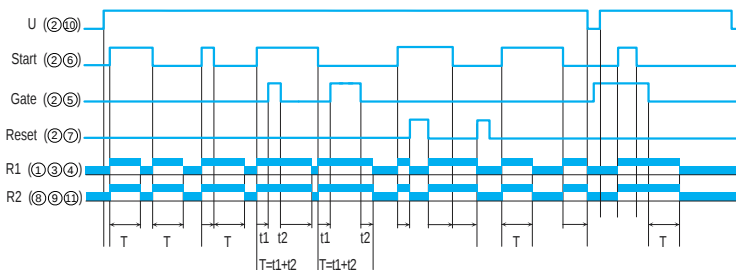
Function G Cyclic function



Function Ac Timing after closing and opening of control contact



Function Bw Pulse output (adjustable)



Function L/Li - G/Gi Cyclic timing : asymetrical recycler

