

812 - 814 - 815 - 815 E digital timers Timer 814 Part number 88857003



Relay output digital timers

- LCD or LED (815E)
- Multi-range
- Multi-voltage
- 1 or 2 relay outputs
- Reset function on panel (Timers 815, 815E)
- Data saved in the event of a break in supply (Timer 815, 815E)
- Access to programming lockable (Timer 814, 815 and 815E)
- Up or down timing mode
- Internal power supply by battery (10 years / 20 °C) (Not 815E)

Part numbers

	Type	Functions	Connections	Relay outputs	Supply voltage	Nominal rating
88857003	Timer 814	A, B, C, D, Di, H	8-pin plug-in	1 timed changeover	12 V DC / 24 → 48 V ACDC	8 A

Specifications

Number of digits	4
Height of digits	TIMER 812 - 814 - 815 : 8 mm TIMER 815E : 7mm
Timing ranges	99,99 s 999,9 s 9999 s 99 min 59 s 99,99 min 999,9 min 9999 min 99 h 59 min 99,99 h 999,9 h 9999 h (? 815E)
Repetition accuracy (with constant parameters)	TIMER 812 - 814 - 815 : $\pm 0,03 \% \pm 20$ ms TIMER 815E : $\pm 0,01 \%$
Display precision	TIMER 812 - 814 - 815 : $\pm 0,03 \% \pm 20$ ms TIMER 815E : $\pm 0,01 \%$
Min. control pulse	50 ms
Maximum reset time by de-energisation during timed delay	50 ms
Maximum reset time by de-energisation after timing	50 ms
Nominal rating	TIMER 814 - 815 : 8 A AC 8 A DC TIMER 812 : 5 A AC 5 A DC TIMER 815E : 5 A - 250 V AC
Max. breaking voltage	TIMER 812 - 814 - 815 : 250 V AC 30 V DC TIMER 815E : 250 V AC 20 V DC
Maximum power rating (resistive)	TIMER 814 - 815 : 2000 VA - 190 W TIMER 812 : 1250 VA - 120 W TIMER 815E : 1500 VA - 100 W
Maximum admissible current	15 A < 0,01 s
Minimum current	TIMER 812 - 814 - 815 : 250 V AC 30 V DC 100 mA TIMER 815E : 500 mW (10 V / 5 mA)
Electrical life at I max., 250 V AC resistive (cycles)	10 ⁵
Max. permitted number of operations at 1 max 250 V AC resistive per hour	600
Mechanical life (operations)	TIMER 812 - 814 - 815 : 5×10^6 TIMER 815E : 20×10^6
Voltage variation	TIMER 814 : + 10 % - 15 % TIMER 815E : + 10 % - 10 %
Immunity from micro power cuts	< 0,03 s
Max. absorbed power	0.5 W / 12 V 1 VA / 24 V 0.5 W / 24 V 3.5 VA / 110 V 1 W / 48 V 11 VA / 220 V TIMER 815E : Max. 3 W
Temperature limits use (°C)	TIMER 812 - 814 - 815 : -10 °C → +60 °C TIMER 815E : 0 °C → +60 °C
Temperature limits stored (°C)	TIMER 812 - 814 - 815 : -30 °C → +70 °C TIMER 815E : -30 °C → +80 °C
Degree of protection front face	TIMER 812 - 814 - 815 : IP65 TIMER 815E : IP30
Insulation according to standard IEC/EN 61812-1, IEC/EN 60255-5	EN61812-1 - IEC255-5
Protection class according to CEI/EN 60529	■

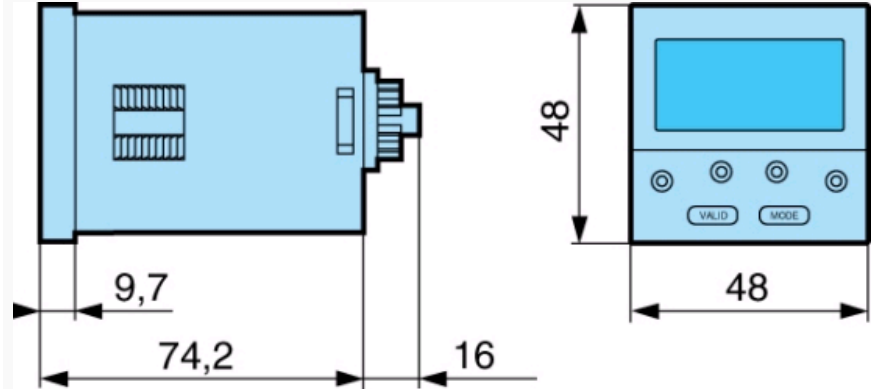
Mounting Front panel, by clip	•
Mounting base-mounted on socket	•
Material	Self-extinguishing UL 94 grade V0
Weight (g)	TIMER 814 : 100 TIMER 812 - 815 : 140 TIMER 815E : 120

Accessories

Accessories	Code
8-pin solder-connected plug	25622301
11-pin solder-connected plug	25622076
Spring clips (pack of 2)	79237739
11-pin connector base	25622080
8-pin connector base	25622130
11-pole rear base	79694002

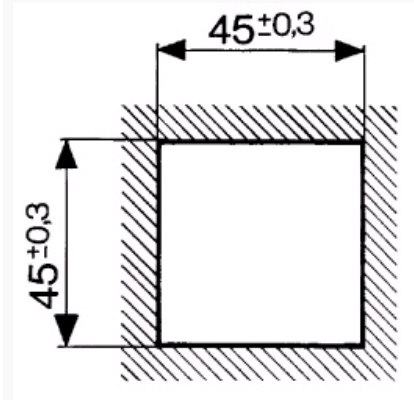
Dimensions (mm)

Timer 812 - 814 - 815



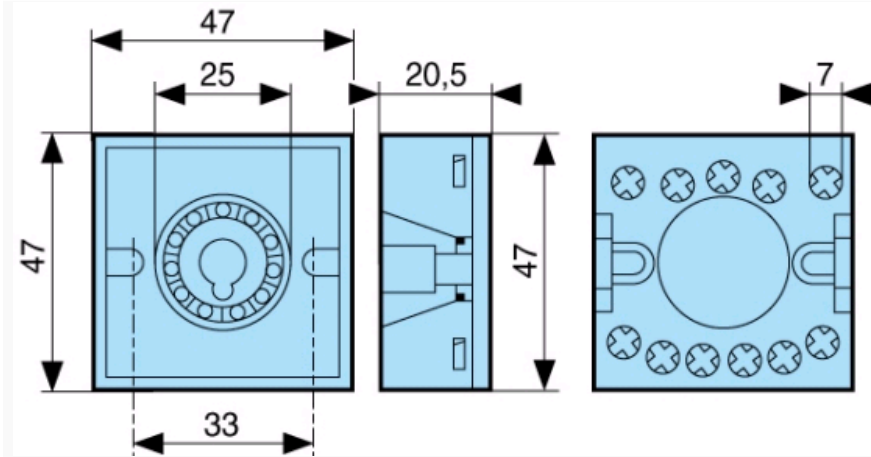
Dimensions (mm)

Panel cut-out

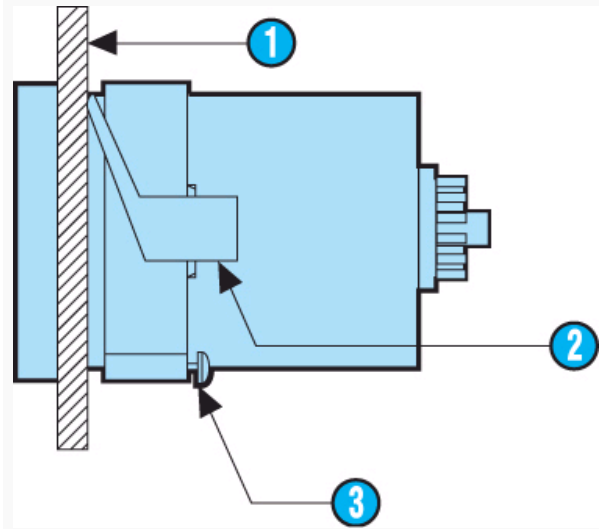


Dimensions (mm)

11-pole rear base
79694002
Panel-mounted



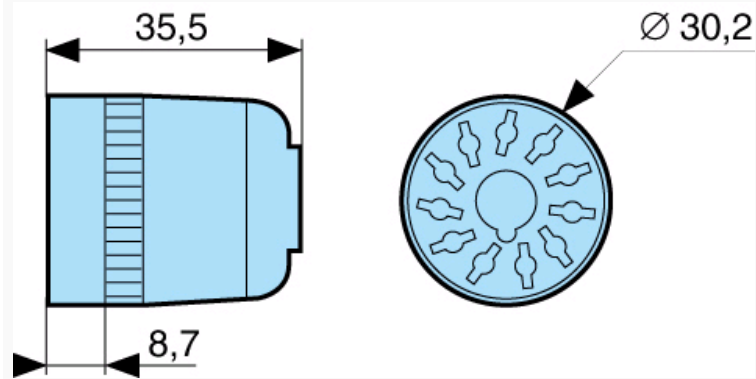
Dimensions (mm)



N°	Legend
1	Panel thickness 1 to 3,5 mm
2	Clip for panel-mounting
3	Positioning screw

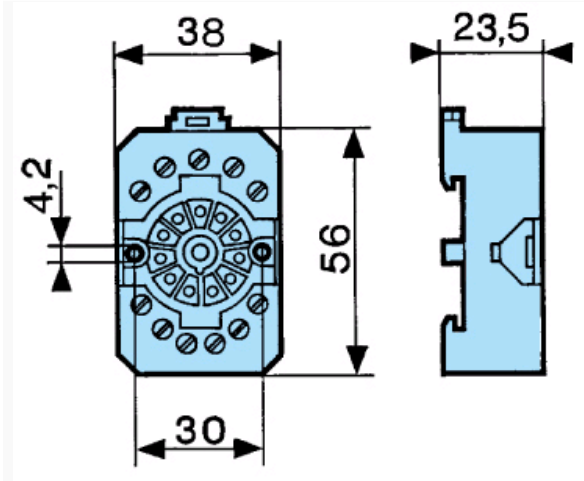
Dimensions (mm)

8-pin or 11-pin solder-connected plug
25 622 076 - 25 622 301

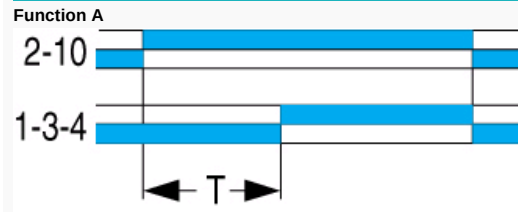


Dimensions (mm)

Connector socket
11-pin 25622080
8-pin 25622130

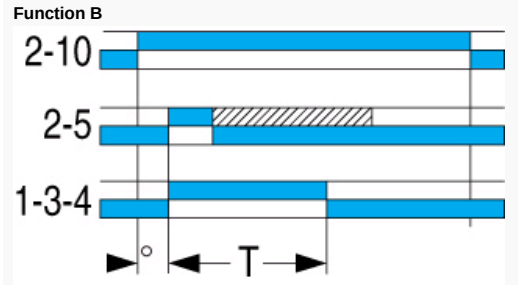


Curves



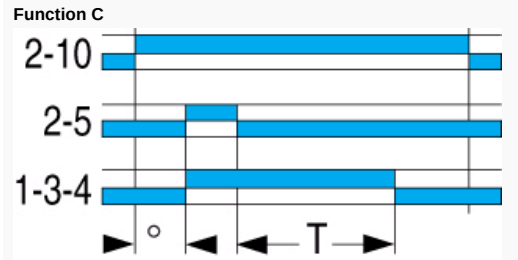
Function A
Delay on energisation 1 timed relay

Curves



Function B
Timing on impulse (one shot)

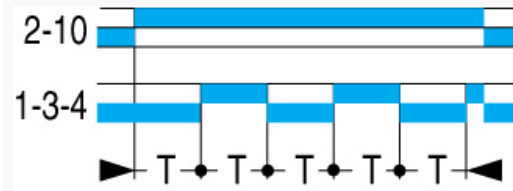
Curves



Function C
Timing after impulse (delay off)

Curves

Function D

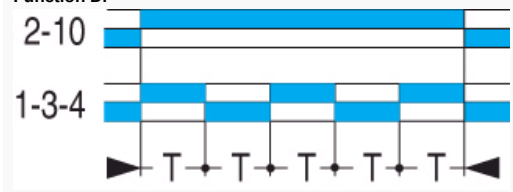


Function D

Flip-flop

Curves

Function Di

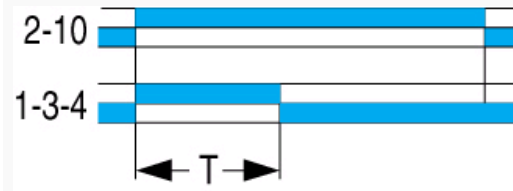


Function Di

Flip-flop

Curves

Function H

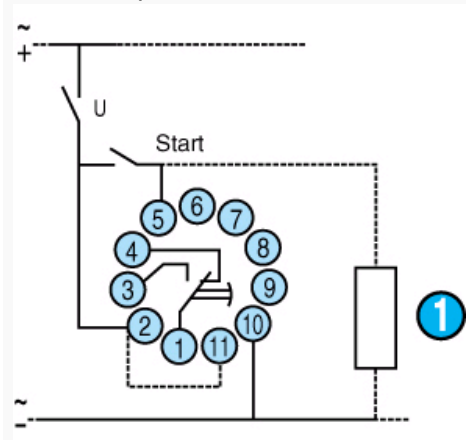


Function H

Timing or energisation

Connections

Timer 814 - 11-pin



N°	Legend
①	Other loads may be connected in parallel

Connections

Timer 814 - 8-pin

Wiring diagram for Timer 814 - 8-pin. The diagram shows an AC supply (U) connected to a switch labeled 'Start'. The switch is connected to terminal 4. Terminal 5 is connected to terminal 6. Terminal 6 is connected to terminal 7. Terminal 7 is connected to terminal 8. Terminal 8 is connected to terminal 1. Terminal 1 is connected to terminal 2. Terminal 2 is connected to terminal 3. Terminal 3 is connected to terminal 4. Terminal 1 is also connected to a load (represented by a rectangle) which is connected to terminal 7. The load is labeled with a circled '1'.

N°	Legend
1	Other loads may be connected in parallel

Connections

Timer 814 - 11-pin

Wiring diagram for Timer 814 - 11-pin. The diagram shows an AC supply connected to terminals 2 and 10. Terminal 5 is connected to terminal 11. Terminal 11 is connected to terminal 1. Terminal 1 is connected to terminal 3. Terminal 3 is connected to terminal 4. Terminal 4 is connected to terminal 1. The load is connected between terminals 1 and 3.

N°	Legend
2-10	Supply
(2-11)	Bridge (88 857 003-88 857 005)
2-5	Control contact or reset
1-3-4	Timed output contact

Connections

Timer 814 - 8-pin

Wiring diagram for Timer 814 - 8-pin. The diagram shows an AC supply connected to terminals 2 and 7. Terminal 6 is connected to terminal 8. Terminal 8 is connected to terminal 1. Terminal 1 is connected to terminal 3. Terminal 3 is connected to terminal 4. Terminal 4 is connected to terminal 1. The load is connected between terminals 1 and 3.

N°	Legend
2-7	Supply
(2-8)	Bridge (88 857 103-88 857 105)
2-6	Control contact reset

1-3-4

Timed output contact