

# 812/ 814/ 815 digital timers

## → 812 - 814 - 815

### Relay output digital timer

- Multi-range
- Multi-voltage
- 1 or 2 relay outputs
- Reset function on panel (Timers 815)
- Data saved in the event of a break in supply (Timer 815)
- Access to programming lockable (Timer 814 and 815)
- Up or down timing mode
- Internal power supply by battery (10 years / 20 °C)



### Specifications

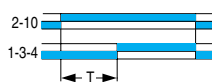
Type	Functions	Connections	Relay outputs	Supply voltage	Nominal rating	Code
Timer 812	A	8-pin plug-in	1 double timed changeover	24 V AC DC	2 x 5 A	88 857 409
	A	8-pin plug-in	1 double timed changeover	110 V AC	2 x 5 A	88 857 406
	A	8-pin plug-in	1 double timed changeover	220 → 240 V AC	2 x 5 A	88 857 400
Timer 814	A, B, C, D, Di, H	8-pin plug-in	1 timed changeover	12 VDC/24 to 48V ACDC	8 A	88 857 003
	A1, A2, AM, AMt	11-pin plug-in	1 timed changeover or instantaneous	24 V AC/110 to 240V AC	2 x 8 A	88 857 005
	A1, A2, AM, AMt	11-pin plug-in	1 timed changeover or instantaneous	12 VDC/24 to 48V ACDC	2 x 8 A	88 857 103
	A, B, C, D, Di, H	11-pin plug-in	1 timed changeover	24 V AC/110 to 240 V AC	8 A	88 857 105
	A1, A2, AM, AMt	11-pin plug-in	1 timed changeover or instantaneous	24 V AC DC / 110 V AC	2 x 8 A	88 857 302
Timer 815	A1, A2, AM, AMt	11-pin plug-in	1 timed changeover or instantaneous	12 V DC / 42 to 48 V AC DC	2 x 8 A	88 857 302
	A1, A2, AM, AMt	11-pin plug-in	1 timed changeover or instantaneous	24 V AC DC / 110 V AC	2 x 8 A	88 857 307
	A1, A2, AM, AMt	11-pin plug-in	1 timed changeover or instantaneous	24 V DC / 220 to 240 V AC	2 x 8 A	88 857 301

### Accessories

	Code
Asymmetrical adaptor A	79 694 005
8-pin solder-connected plug	25 622 301
11-pin solder-connected plug	25 622 076
Spring clips	79 237 790
11-pin connector socket	25 622 077
8-pin connector socket	25 622 128
11-pole rear base	79 694 002

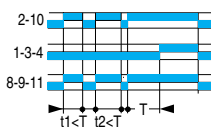
### Curves

#### Function A



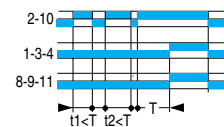
Delay on energisation 1 timed relay

#### Function A1



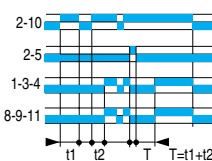
Delay on energisation 1 timed relay 1 instantaneous relay

#### Function A2



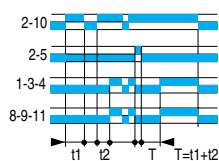
Delay on energisation 2 timed relays

#### Function AM



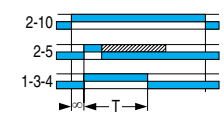
Delay on energisation Memory during and after timing. Reset

#### Function AMt



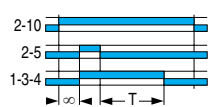
Delay on energisation Memory during timing. Reset

#### Function B



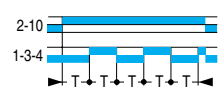
Timing on impulse (one shot)

#### Function C



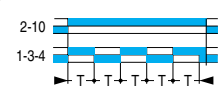
Timing after impulse (delay off)

#### Function D



Flip-flop

#### Function Di



Flip-flop

#### Function H



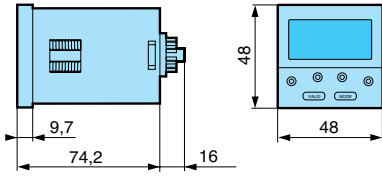
Timing or energisation

To order, see page 6

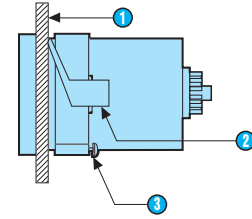
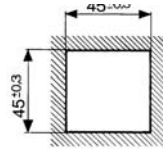
## General characteristics

Display	
Number of digits	4
Height of digits	8 mm
Precision	
Timing ranges	99 → 99 s / 999 → 9 s / 9999 s / 99 mn 59 s / 99 → 99 mn / 999 → 9 mn 9999 mn / 99 h 59 mn / 99 → 99 h / 999 → 9 h / 9999 h
Repetition accuracy (with constant parameters)	± 0.03 % ± 20 ms
Display accuracy	± 0.03 % ± 20 ms
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
Output specification	
Nominal rating	TIMER 814 - 815 : 8 A AC 8 A DC, TIMER 812 : 5 A AC 5 A DC
Max. breaking voltage	250 AC 30 V DC
Maximum power rating (resistive)	TIMER 814-815 : 2000 VA - 190 W, TIMER 812 : 1250 VA - 120 W
Maximum admissible current	15 A < 0.01 s
Minimum current	100 mA
Electrical life at I max., 250 V AC resistive (cycles)	10 <sup>5</sup>
Max. permitted number of operations at 1 max 250 V AC resistive per hour	600
Mechanical life (operations)	5 x 10 <sup>6</sup>
Function and use	
Voltage variation	TIMER 814 : + 10 % -15 %
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
Temperatures limits use (°C)	-10 °C → +60 °C
Temperature limits stored (°C)	-30 °C → +70 °C
Degree of protection front face	IP65
Insulation according to standard VDE 0110-IEC 255 group C	•
Protection class according to UTE C 20010 - IEC 529 - DIN 40050	•
Conformity to standards ICE 255 - VDE 0435 - 2021	•
Mounting Front panel, by clip	•
Mounting base-mounted on socket	•
Material	Self-extinguishing UL 94 grade Vo
Weight (g)	TIMER 814 : 100, TIMER 812 - 815 : 140

## Dimensions

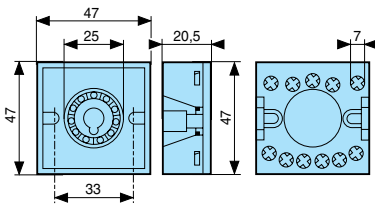


### Panel cut-out

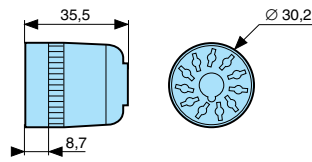


- ① Panel thickness 1 to 3.5 mm
- ② Clip for panel-mounting
- ③ Positioning screw

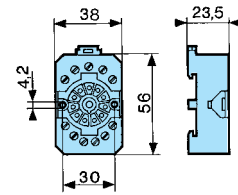
### 11-pole rear base 79 694 002 Panel-mounted



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

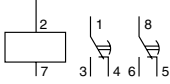


### Connector socket 11-pin 25 622 077 8-pin 25 622 128



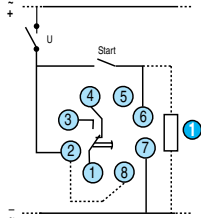
## Connections

### Timer 812 - 11-pin



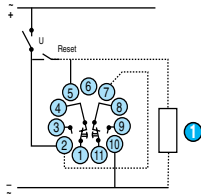
2-7 Supply  
1-3-4 Timed output contact  
8-5-6 Timed output contact

### Timer 814 - 8 pin



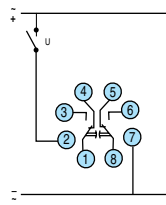
① Other loads may be connected in parallel

### Timer 815 - 11-pin

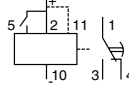


① Other loads may be connected in parallel

### Timer 812 - 8-pin

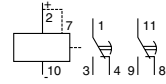


### Timer 814 - 11-pin



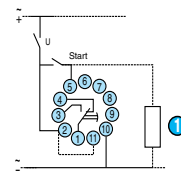
2-10 Supply  
(2-11) Bridge  
2-5 Control contact or reset  
1-3-4 Timed output contact

### Timer 815 - 11-pin



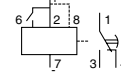
2-10 / 2-7 Supply  
(2-7) Bridge  
1-3-4 Timed output contact  
8-9-11 Timed or instantaneous output contact

### Timer 814 - 11-pin



① Other loads may be connected in parallel

### Timer 814 - 8-pin



2-7 Supply  
(2-8) Bridge  
2-6 Control contact reset  
1-3-4 Timed output contact