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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Digital 812,814,815 and 815E

→ 812 - 814 - 815 - 815E digital timers

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)



Description

Type	Functions	Connections	Relay outputs	Supply voltage	Nominal rating	Part number
Timer 812	A	8-pin plug-in	2 double timed changeover	24 V ~ ☐	2 x 5 A	88857409
	A	8-pin plug-in	2 double timed changeover	110 V ~	2 x 5 A	88857406
	A	8-pin plug-in	2 double timed changeover	220 → 240 V ~	2 x 5 A	88857400
Timer 814	A, B, C, D, Di, H	8-pin plug-in	1 timed changeover	12 V ☐ / 24 → 48 V ~ ☐	8 A	88857003
	A, B, C, D, Di, H	8-pin plug-in	1 timed changeover	24 V ~ ☐ / 110 → 240 V ~	8 A	88857005
	A, B, C, D, Di, H	11-pin plug-in	1 timed changeover	12 V ☐ / 24 → 48 V ~ ☐	8 A	88857103
	A, B, C, D, Di, H	11-pin plug-in	1 timed changeover	24 V ~ ☐ / 110 → 240 V ~	8 A	88857105
Timer 815	A1, A2, AM, AMt	11-pin plug-in	1 timed changeover or instantaneous	12 V ☐	2 x 8 A	88857302
	A1, A2, AM, AMt	11-pin plug-in	1 timed changeover or instantaneous	42 → 48 V ~ ☐	2 x 8 A	88857307
	A1, A2, AM, AMt	11-pin plug-in	1 timed changeover or instantaneous	24 V ~ ☐	2 x 8 A	88857301
Timer 815E	A1, A1C, A2, A2C, AM, AMT, B, BM, C, CM, D, Di, DiM, Dpause, H, HM, T, TM, W, WM	11-pin plug-in	2 double timed changeover	24 V ☐	2 x 8 A	88857301
				220 → 240 V ~	2 x 8 A	88857301
				12-24 V ~ / V ☐	2 x 5 A	88857311
				100 → 240 V ~	2 x 5 A	88857311

Accessories

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

General characteristics

Display

Number of digits	4
Height of digits	TIMER 812 - 814 - 815: 8 mm TIMER 815E: 7mm

Precision

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 (except 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

Output specification

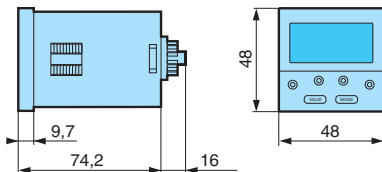
Nominal rating	TIMER 814 - 815: 8 A \sim 8 A \equiv TIMER 812: 5 A \sim 5 A \equiv TIMER 815E: 5 A - 250 V \sim
Max. breaking voltage	TIMER 812 - 814 - 815: 250 V \sim 30 V \equiv TIMER 815E: 250 V \sim 20 V \equiv
Maximum power rating (resistive)	TIMER 814 - 815: 2000 VA - 190 W TIMER 812: 1250 VA - 120 W TIMER 815E: 1500 VA - 100 W
Maximum admissible current	15 A < 0.01 s
Minimum current	TIMER 812 - 814 - 815: 250 V \sim 30 V \equiv 100 mA TIMER 815E: 500 mW (10 V / 5mA)
Electrical life at I max., 250 V \sim resistive (cycles)	10 ⁵
Max. permitted number of operations at 1 max 250 V \sim resistive per hour	600
Mechanical life (operations)	TIMER 812 - 814 - 815: 5 x 10 ⁶ TIMER 815E: 20 x 10 ⁶

Function and use

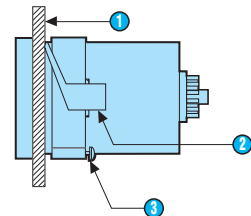
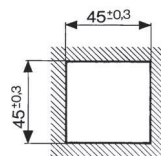
Voltage variation	TIMER 814: + 10% - 15% TIMER 815E: + 10% - 10%
Immunity from micro power cuts	< 0.03 s
Max. absorbed power	0.5 W / 12 V 1 VA / 24 V 0.5 W / 24 V 3.5 VA / 110 V 1 W / 48 V 11 VA / 220 V TIMER 815E: Max. 3 W
Temperature limits use (°C)	TIMER 812 - 814 - 815: -10 °C \rightarrow +60 °C TIMER 815E: 0°C \rightarrow +60°C
Temperature limits stored (°C)	TIMER 812 - 814 - 815: -30 °C \rightarrow +70 °C TIMER 815E: -30°C \rightarrow +80°C
Degree of protection front face	TIMER 812 - 814 - 815: IP65 TIMER 815E: IP30
Insulation according to standard VDE 0010-IEC 255 group C	EN61812-1 - IEC255-5
Protection class according to UTE C 20010 - IEC 529 - DIN 40050	✓
Conformity to standards IEC 255 - VDE 0435 - 2021	✓
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

Dimensions (mm)

Timer 812 - 814 - 815

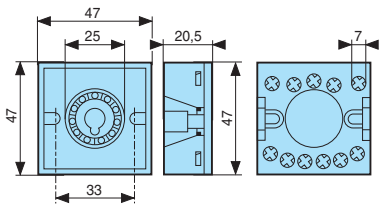


Panel cut-out

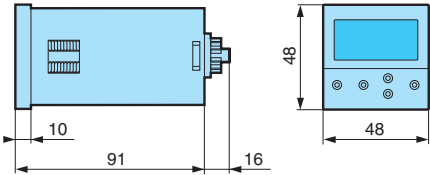


- ① Panel thickness 1 to 3.5 mm
- ② Clip for panel-mounting
- ③ Positioning screw

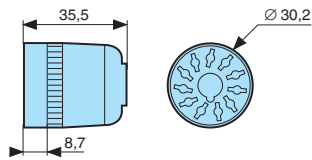
11-pole rear base
79694002
Panel-mounted



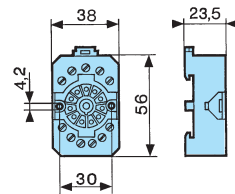
Timer 815E



8-pin or 11-pin solder-connected plug
25622301 - 25622076

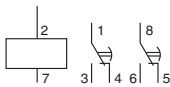


Connector socket
11-pin 25622080
8-pin 25622130



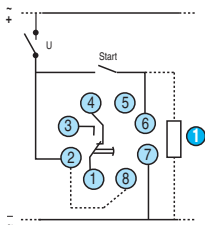
Connections

Timer 812 - 8-pin



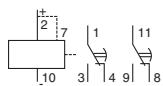
- 2-7 Supply
- 1-3-4 Timed output contact
- 8-5-6 Timed output contact

Timer 814 - 8-pin



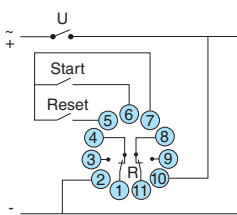
- 1 Other loads may be connected in parallel

Timer 815 - 11-pin

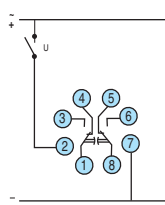


- 2-10 / 2-7 Supply
- (2-7) Bridge (88 857 301-88 857 302-88 857 307)
- 1-3-4 Timed output contact
- 8-9-11 Timed or instantaneous output contact

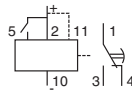
Timer 815E - 11-pin



Timer 812 - 8-pin

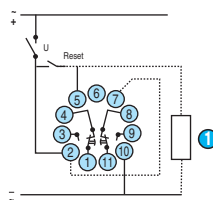


Timer 814 - 11-pin



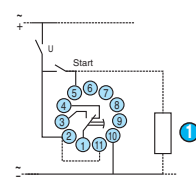
- 2-10 Supply
- (2-11) Bridge (88 857 003-88 857 005)
- 2-5 Control contact or reset
- 1-3-4 Timed output contact

Timer 815 - 11-pin



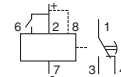
- 1 Other loads may be connected in parallel

Timer 814 - 11-pin



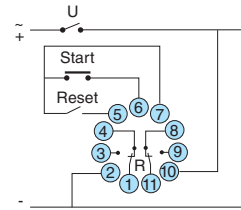
- 1 Other loads may be connected in parallel

Timer 814 - 8-pin



- 2-7 Supply
- (2-8) Bridge (88 857 103-88 857 105)
- 2-6 Control contact reset
- 1-3-4 Timed output contact

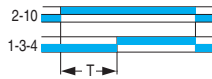
Timer 815E - 11-pin



- 1 Connect 6-7 after programming
Function: A1-A2-AM-AMt-D-Di-H

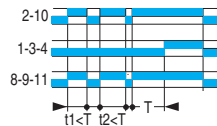
Curves 812-814-815

Function A



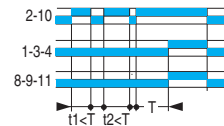
Delay on energisation
1 timed relay

Function A1



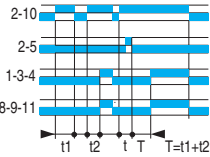
Delay on energisation
1 timed relay
1 instantaneous relay

Function A2



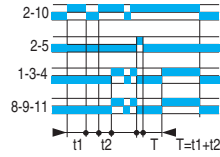
Delay on energisation
2 timed relays

Function AM



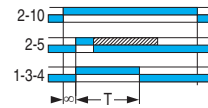
Delay on energisation
Memory during timing. Reset

Function AMt



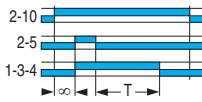
Delay on energisation
Memory during and after timing. Reset

Function B



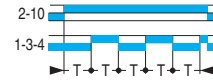
Timing on impulse (one shot)

Function C



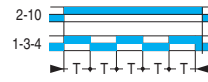
Timing after impulse (delay off)

Function D



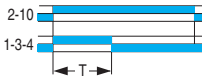
Flip-flop

Function Di



Flip-flop

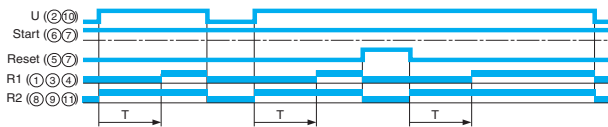
Function H



Timing or energisation

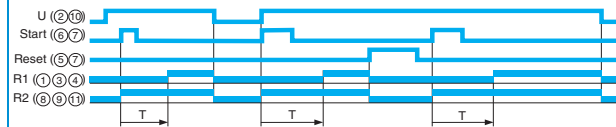
Curves 815E

Function A1



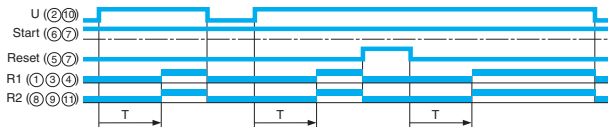
Delay on energisation
1 timed relay
1 instantaneous relay

Function A1c



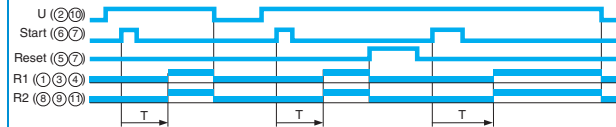
Delay on energisation
1 timed relay
1 instantaneous relay

Function A2



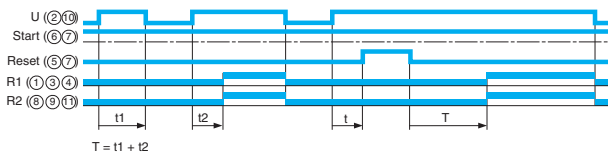
Delay on energisation
2 timed relays

Function A2c



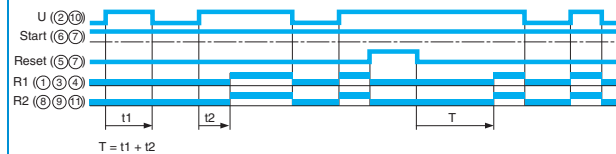
Delay on energisation
2 timed relays

Function AM



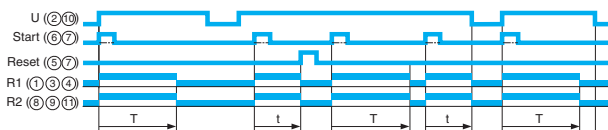
Delay on energisation
Memory during timing. Reset

Function AMt



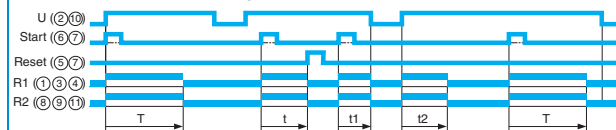
Delay on energisation
Memory during and after timing. Reset

Function B



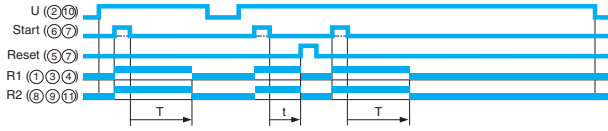
Timing on impulse one shot
2 timed relays

Function B with memory



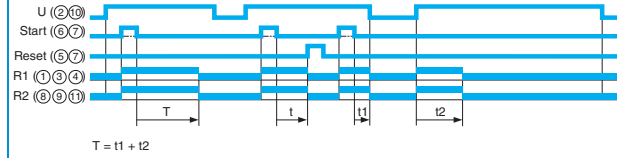
Timing on impulse one shot

Function C



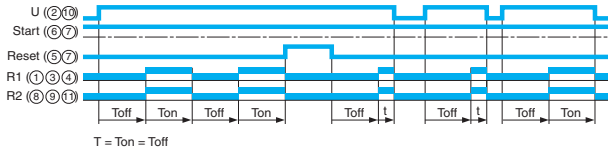
Timing after impulse (re-opening of control contact)

Function C with memory



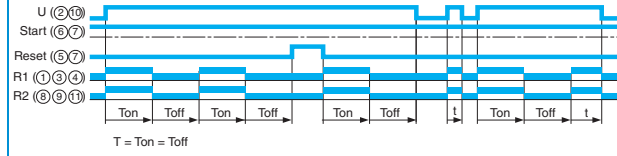
Timing after impulse (re-opening of control contact)

Function D



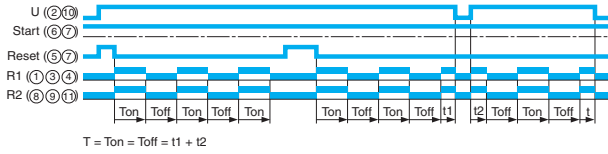
Flip-flop

Function Di



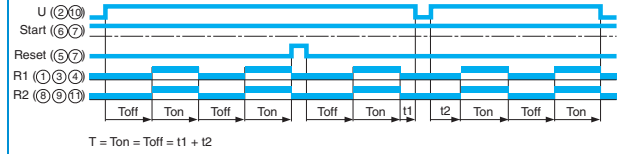
Flip-flop

Function Di with memory



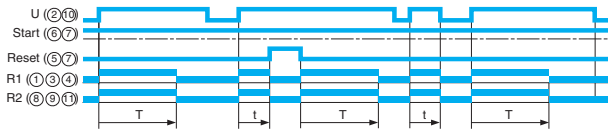
Flip-flop

Function D pause



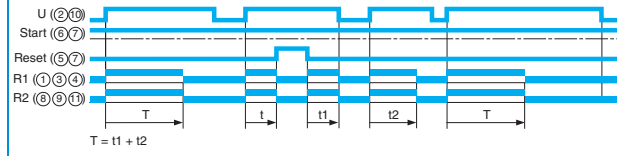
Flip-flop

Function H



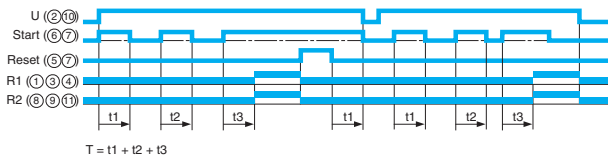
Timing on energisation, 2 timed relays

Function H with memory



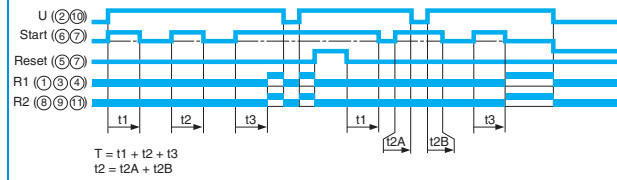
Timing on energisation, 2 timed relays

Function T



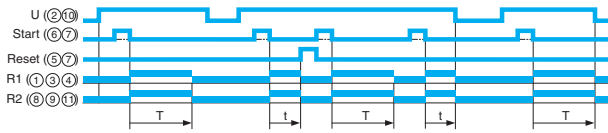
Timing on energisation by control signal (sum of times)

Function T with memory



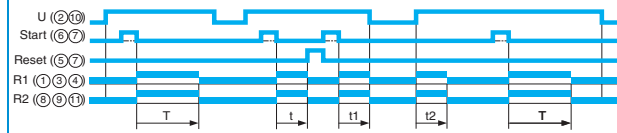
Timing on energisation by control signal (sum of times)

Function W



Timing after pulse on control contact, 2 timed relays

Function W with memory



Timing after pulse on control contact, 2 timed relays