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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### Economical, Compact, Plug-in Timer

- Time limit operation with automatic resetting.
- DIN size (36 × 36 mm), fits standard 8-pin sockets.
- Wide choice of supply voltages:  
24, 100 to 120, 200 to 240 VAC, 12, 24 VDC.
- Dual LED indication for power and output statuses.
- Large transparent setting knob.
- Setting error rating almost matches that of a 48 × 48 timer.
- Conforms to UL and CSA, and meets CE marking requirements.



### Ordering Information

Operation/resetting system	Time-limit contact	Mounting method	Rated time	Model
Time-limit operation/ self-resetting	SPDT	Surface mounting, flush mounting, and DIN track mounting	1 s, 3 s, 5 s, 10 s, 30 s, 60 s, 3 min, 5 min, 10 min, 30 min, 60 min, 3 hrs	H3JA-8A
	DPDT			H3JA-8C

**Note:** Specify the model number, supply voltage, and rated time when ordering.

Ex. H3JA-8A 100 to 120 VAC 1 s  
 └──────────────────┬──────────┘  
 Supply voltage      Rated time

### ■ Accessories (Order Separately)

Name/specifications		Models
Flush Mounting Adapter		Y92F-31
Mounting Track	50 cm (ℓ) × 7.3 mm (t)	PFP-50N
	1 m (ℓ) × 7.3 mm (t)	PFP-100N
	1 m (ℓ) × 16 mm (t)	PFP-100N2
End Plate		PFP-M
Spacer		PFP-S
Track Mounting/ Front Connecting Socket	8-pin	PF085A
Back Connecting Socket	8-pin	US08
	8-pin	P3G-08
	8-pin, finger safe type	P3G-08 with Y92A-48G (see note 1)
Hold-down Clip (see note 2)	For PF085A Socket	Y92H-6

**Note:** 1. Y92A-48G is a finger safe terminal cover which is attached to the P3G-08 Socket.

2. Hold-down Clips are sold in sets of two.

# Specifications

## ■ Time Ranges

Rated time	Time range	Rated time	Time range
1 s	0.1 to 1 s	3 min	0.3 to 3 min
3 s	0.3 to 3 s	5 min	0.5 to 5 min
5 s	0.5 to 5 s	10 min	1 to 10 min
10 s	1 to 10 s	30 min	3 to 30 min
30 s	3 to 30 s	60 min	6 to 60 min
60 s	6 to 60 s	3 hrs	0.3 to 3 hrs

## ■ Ratings

<b>Rated supply voltage</b>	24, 100 to 120 or 200 to 240 VAC (50/60 Hz); 12, 24 VDC
<b>Operating voltage range</b>	85% to 110% of rated supply voltage
<b>Power consumption</b>	<p><u>H3JA-8A</u></p> <p>100 to 120 VAC: Approx. 2.6 VA (1.1 W) at 120 VAC            200 to 240 VAC: Approx. 5.0 VA (1.5 W) at 240 VAC            24 VAC: Approx. 1.0 VA (0.9 W) at 24 VAC            24 VDC: Approx. 0.8 W at 24 VDC            12 VDC: Approx. 0.5 W at 12 VDC</p> <p><u>H3JA-8C</u></p> <p>100 to 120 VAC: Approx. 2.4 VA (0.9 W) at 120 VAC            200 to 240 VAC: Approx. 4.1 VA (1.1 W) at 240 VAC            24 VAC: Approx. 1.2 VA (1.0 W) at 24 VAC            24 VDC: Approx. 0.8 W at 24 VDC</p>
<b>Control outputs</b>	H3JA-8A: 7 A at 250 VAC, resistive load H3JA-8C: 5 A at 250 VAC, resistive load

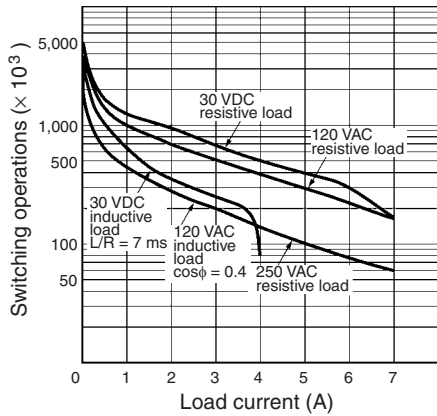
## ■ Characteristics

<b>Accuracy of operating time</b>	±2% max. (full scale)
<b>Setting error</b>	±7% max. (full scale) ±50 ms at 20°C
<b>Influence of voltage</b>	±2% max. (full scale)
<b>Influence of temperature</b>	±5% max. (full scale)
<b>Insulation resistance</b>	100 MΩ min. (at 500 VDC)
<b>Dielectric strength</b>	2,000 VAC, 50/60 Hz for 1 min (between current-carrying and non-current-carrying parts, and between contact-carrying and control circuit, and between contacts of different poles) 750 VAC, 50/60 Hz for 1 min (between non-continuous contacts: H3JA-8A) 1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts: H3JA-8C)
<b>Impulse withstand voltage</b>	3 kV (between power terminals) 4.5 kV (between current-carrying terminal and exposed non-current-carrying metal parts)
<b>Noise immunity</b>	±1.5 kV (between power terminals) and ±1.5 kV (between output terminals), square-wave noise by noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)
<b>Static immunity</b>	Destruction: 8 kV Malfunction: 6 kV
<b>Vibration resistance</b>	Destruction: 10 to 55 Hz with 0.75-mm double amplitude in 3 directions for 1 hour each. Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 10 minutes each.
<b>Shock resistance</b>	Destruction: 1,000 m/s <sup>2</sup> Malfunction: 100 m/s <sup>2</sup>
<b>Ambient temperature</b>	Operating: -10°C to 55°C Storage: -25°C to 65°C
<b>Ambient humidity</b>	Operating: 35% to 85%
<b>Life expectancy</b>	<b>H3JA-8A</b> Mechanical: 10,000,000 operations min. Electrical: 60,000 operations min. (7 A resistive load at 250 VAC, 360 operations/h) <b>H3JA-8C</b> Mechanical: 10,000,000 operations min. Electrical: 100,000 operations min. (5 A resistive load at 250 VAC, 360 operations/h)
<b>EMC</b>	(EMI) Emission Enclosure: EN55011 Group 1 class B Emission AC Mains: EN55011 Group 1 class B Harmonic Current: EN61000-3-2 Voltage Fluctuation and Flickering: EN61000-3-3  (EMS) Immunity ESD: EN61000-4-2: 6 kV contact discharge (level 3) 8 kV air discharge (level 3) Immunity RF-interference from AM Radio Waves: EN61000-4-3: 10 V/m (80 MHz to 1 GHz) (level 3) Immunity Burst: EN61000-4-4: 2 kV power port and output port (level 3) 1 kV control port with capacitive clamp (level 3) Immunity Surge: EN61000-4-5: 2 kV common mode (level 3) 1 kV differential mode (level 3)
<b>Approved standard</b>	UL508 (See note.), CSA C22.2 No. 14, conforms to EN61812-1 (Pollution degree 2)
<b>Case color</b>	Light gray (Munsell 5Y7/1)
<b>Degree of protection</b>	IP40 (panel surface)
<b>Weight</b>	H3JA-8A: Approx. 50 g H3JA-8C: Approx. 60 g

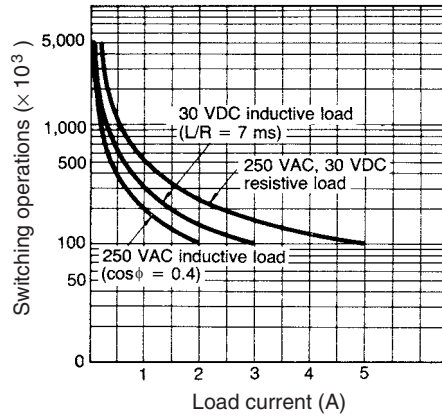
**Note:** The surrounding air temperature (operating) is -10 to 40°C.

# Engineering Data

H3JA-8A



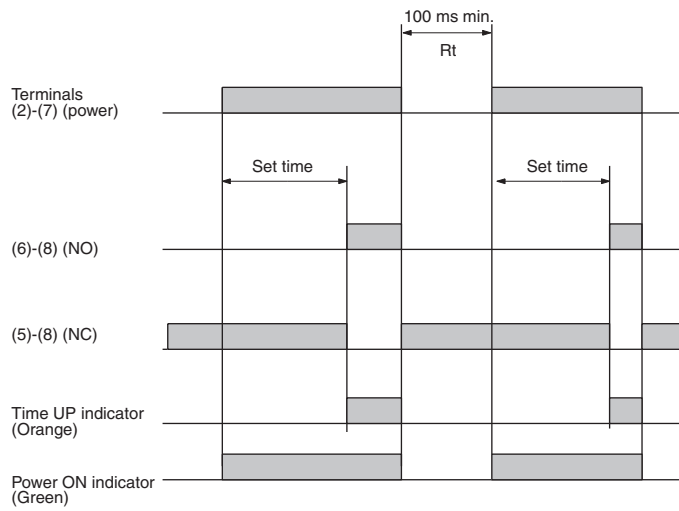
H3JA-8C



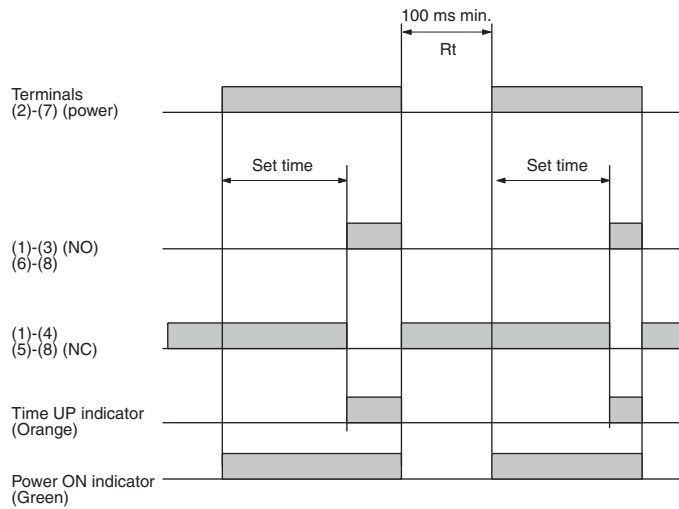
## Operation

### ■ Timing Chart

H3JA-8A

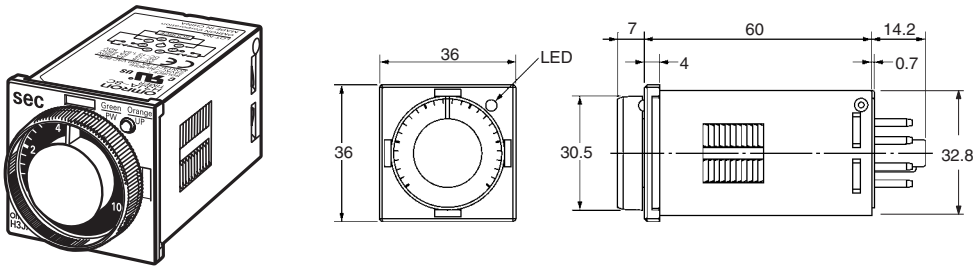


H3JA-8C



# Dimensions

**Note:** All units are in millimeters unless otherwise indicated.



## ■ Accessories (Order Separately)

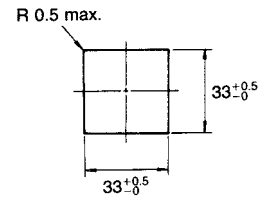
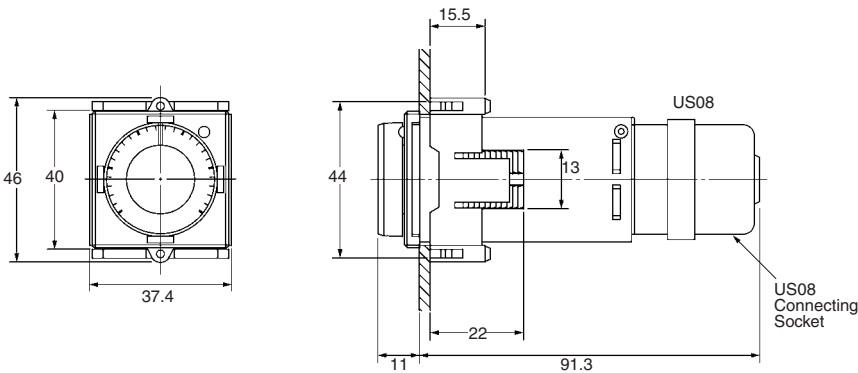
### Flush Mounting Adapter

#### Y92F-31

Adapter Y92F-31 shown with H3JA-8□ and back connecting socket.

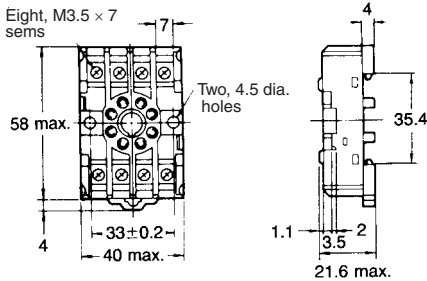
### Panel Cutout

Recommended panel thickness: 1 to 5 mm

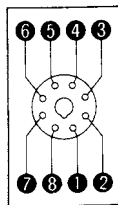


### Track Mounting/Front Connecting Socket

#### PF085A

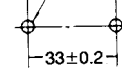


### Terminal Arrangement (Top View)

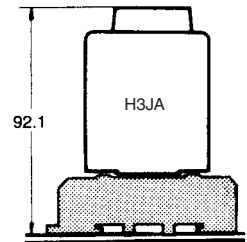


### Mounting Holes

Two, M4 or 4.5 dia. holes



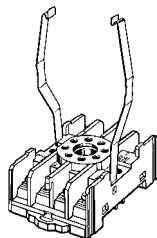
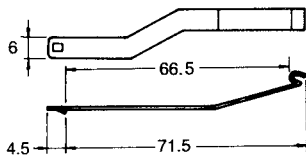
### Mounting Height of Timer with Socket



**Note:** PF085A can be used as a front connecting socket.

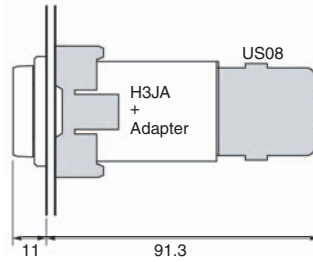
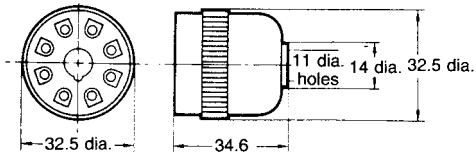
### Hold-down Clips (Set of Two Clips)

#### Y92H-6 for PF085A Socket

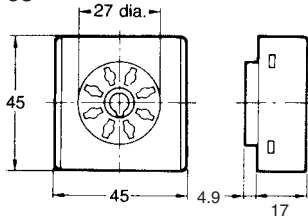


**Back Connecting Socket**

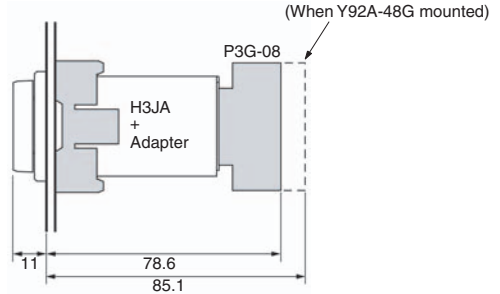
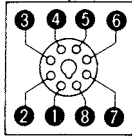
**US08**



**P3G-08**

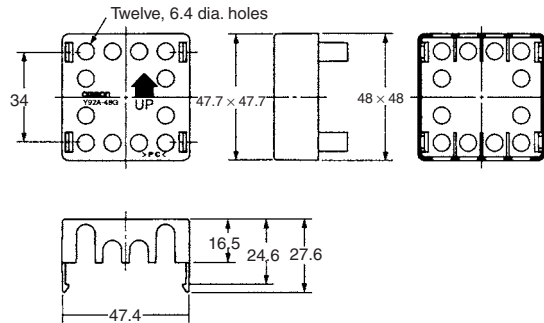
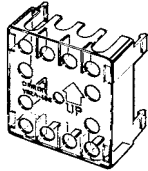


**Terminal Arrangement (Bottom View)**

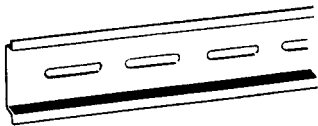


**Finger Safe Terminal Cover  
Conforming to VDE0106/P100**

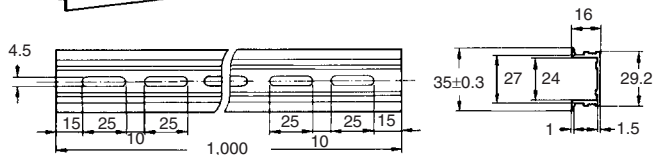
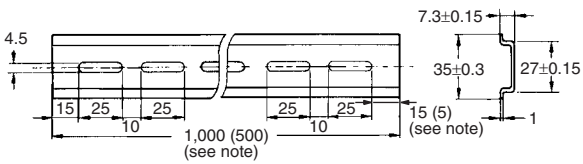
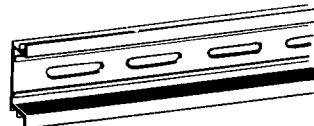
**Y92A-48G  
(Attachment for P3G-08  
Socket)**



**Mounting Track  
PFP-100N, PFP-50N**

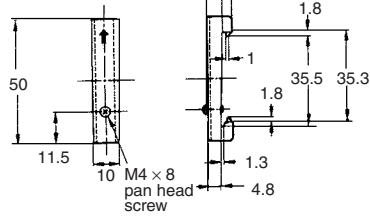
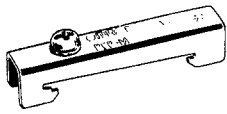


**PFP-100N2**

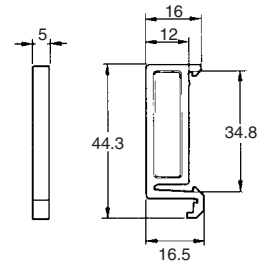
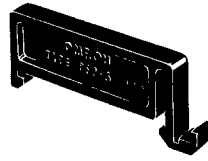


**Note:** The values shown in parentheses are for the PFP-50N.

**End Plate**  
PFP-M



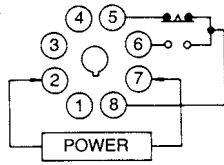
**Spacer**  
PFP-S



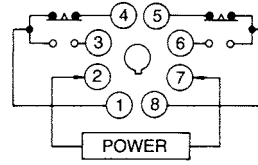
## Installation

### ■ Terminal Arrangement

H3JA-8A



H3JA-8C





**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. L110-E1-01A **In the interest of product improvement, specifications are subject to change without notice.**

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