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## OmROn

## Solid-state Timer

## Economical, Compact, Plug-in Timer

■ Time limit operation with automatic resetting.
■ DIN size $(36 \times 36 \mathrm{~mm})$, fits standard 8 -pin sockets.
$\square$ 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 $48 \times$ 48 timer.

C $\mathrm{CrOs}_{\mathrm{cs}}$

- Conforms to UL and CSA, and meets CE marking requirements


## Ordering Information

| Operation/resetting <br> system | Time-limit contact | Mounting method | Rated time | Model |
| :--- | :--- | :--- | :--- | :--- |
| Time-limit operation/ | SPDT | Surface mounting, flush <br> mounting, and DIN track <br> mounting | $1 \mathrm{~s}, 3 \mathrm{~s}, 5 \mathrm{~s}, 10 \mathrm{~s}, 30 \mathrm{~s}$, <br> $60 \mathrm{~s}, 3 \mathrm{~min}, 5 \mathrm{~min}, 10 \mathrm{~min}$, <br> $30 \mathrm{~min}, 60 \mathrm{~min}, 3 \mathrm{hrs}$ | 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

- Accessories (Order Separately)

| Name/specifications |  | Models |
| :---: | :---: | :---: |
| Flush Mounting Adapter |  | Y92F-31 |
| Mounting Track | $50 \mathrm{~cm}(\ell) \times 7.3 \mathrm{~mm}(\mathrm{t})$ | PFP-50N |
|  | $1 \mathrm{~m}(\ell) \times 7.3 \mathrm{~mm}(\mathrm{t})$ | PFP-100N |
|  | $1 \mathrm{~m}(\ell) \times 16 \mathrm{~mm}(\mathrm{t})$ | 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

| Rated supply voltage | 24,100 to 120 or 200 to $240 \mathrm{VAC}(50 / 60 \mathrm{~Hz})$; 12, 24 VDC |
| :---: | :---: |
| Operating voltage range | $85 \%$ to $110 \%$ of rated supply voltage |
| Power consumption | H3JA-8A <br> 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: $\quad$ Approx. 1.0 VA (0.9 W) at 24 VAC 24 VDC: $\quad$ Approx. 0.8 W at 24 VDC 12 VDC: Approx. 0.5 W at 12 VDC H3JA-8C <br> 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 $24 \mathrm{VAC}: \quad$ Approx. 1.2 VA (1.0 W) at 24 VAC 24 VDC: $\quad$ Approx. 0.8 W at 24 VDC |
| Control outputs | H3JA-8A: 7 A at 250 VAC, resistive load H3JA-8C: 5 A at 250 VAC, resistive load |

## - Characteristics

| Accuracy of operating time | $\pm 2 \%$ max. (full scale) |
| :---: | :---: |
| Setting error | $\pm 7 \%$ max. (full scale) $\pm 50 \mathrm{~ms}$ at $20^{\circ} \mathrm{C}$ |
| Influence of voltage | $\pm 2 \%$ max. (full scale) |
| Influence of temperature | $\pm 5 \%$ max. (full scale) |
| Insulation resistance | $100 \mathrm{M} \Omega \mathrm{min}$. (at 500 VDC ) |
| Dielectric strength | 2,000 VAC, $50 / 60 \mathrm{~Hz}$ 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, $50 / 60 \mathrm{~Hz}$ for 1 min (between non-continuous contacts: H3JA-8A) 1,000 VAC, $50 / 60 \mathrm{~Hz}$ for 1 min (between non-continuous contacts: H3JA-8C) |
| Impulse withstand voltage | 3 kV (between power terminals) <br> 4.5 kV (between current-carrying terminal and exposed non-current-carrying metal parts) |
| Noise immunity | $\pm 1.5 \mathrm{kV}$ (between power terminals) and $\pm 1.5 \mathrm{kV}$ (between output terminals), square-wave noise by noise simulator (pulse width: $100 \mathrm{~ns} / 1 \mu \mathrm{~s}, 1$-ns rise) |
| Static immunity | Destruction: 8 kV <br> Malfunction: 6 kV |
| Vibration resistance | Destruction: 10 to 55 Hz with $0.75-\mathrm{mm}$ double amplitude in 3 directions for 1 hour each. Malfunction: 10 to 55 Hz with $0.5-\mathrm{mm}$ double amplitude in 3 directions for 10 minutes each. |
| Shock resistance | Destruction: $1,000 \mathrm{~m} / \mathrm{s}^{2}$ <br> Malfunction: $100 \mathrm{~m} / \mathrm{s}^{2}$ |
| Ambient temperature | Operating: $-10^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C}$ <br> Storage: $-25^{\circ} \mathrm{C}$ to $65^{\circ} \mathrm{C}$ |
| Ambient humidity | Operating: 35\% to 85\% |
| Life expectancy | H3JA-8A  <br> Mechanical: $10,000,000$ operations min. <br> Electrical: 60,000 operations min. (7 A resistive load at 250 VAC, 360 operations $/ \mathrm{h}$ ) <br> H3JA-8C $10,000,000$ operations min. <br> Mechanical: 10,0000 operations min. (5 A resistive load at 250 VAC, 360 operations $/ \mathrm{h}$ ) <br> Electrical: 100,000 |
| EMC | (EMI) |
| Approved standard | UL508 (See note.), CSA C22.2 No. 14, conforms to EN61812-1 (Pollution degree 2) |
| Case color | Light gray (Munsell 5Y7/1) |
| Degree of protection | IP40 (panel surface) |
| Weight | H3JA-8A: Approx. 50 g H3JA-8C: Approx. 60 g |

Note: The surrounding air temperature (operating) is -10 to $40^{\circ} \mathrm{C}$.

## 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 $\square$ and back connecting socket.


Panel Cutout
Recommended panel thickness: 1 to 5 mm


Track Mounting/Front Connecting Socket
PF085A


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


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

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