## Features

- Switching capacity 16A
- 20 mm height
- PC board mounting
- UL/CUL certified


## Contact Data*

| Contact Arrangement | $\begin{aligned} & 1 A=\text { SPST N.O. } \\ & 1 C=\text { SPDT } \\ & 2 A=\text { DPST N.O. } \\ & 2 C=\text { DPDT } \end{aligned}$ | Contact Resistance | < 50 milliohms initial |
| :---: | :---: | :---: | :---: |
|  |  | Contact Material | $\mathrm{AgSnO}_{2}$ |
|  |  | Maximum Switching Power | 480W, 4000VA |
|  |  | Maximum Switching Voltage | 380VAC, 110VDC |
| Contact Rating | 1A: 16A @ 250VAC; 30VDC, Resistive, 70 ${ }^{\circ} \mathrm{C}$ | Maximum Switching Current | 16A |

## Coil Data*

| Coil Voltage VDC |  | Coil Resistance $\Omega+/-10 \%$ |  | Pick Up Voltage VDC (max) <br> $75 \%$ of rated voltage | Release Voltage VDC (min) <br> $10 \%$ of rated voltage | Coil Power W | Operate Time ms | Release Time ms |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rated | Max | .53W | .72W |  |  |  |  |  |
| 3 | 3.9 | 17 | 13 | 2.25 | 0.3 | $\begin{aligned} & .53 \\ & .72 \end{aligned}$ | 20 | 10 |
| 5 | 6.5 | 47 | 35 | 3.75 | 0.5 |  |  |  |
| 6 | 7.8 | 67 | 50 | 4.50 | 0.6 |  |  |  |
| 9 | 11.7 | 150 | 110 | 6.75 | 0.9 |  |  |  |
| 12 | 15.6 | 270 | 200 | 9.00 | 1.2 |  |  |  |
| 24 | 31.2 | 1050 | 800 | 18.00 | 2.4 |  |  |  |
| 48 | 62.4 | 4250 | 3200 | 36.00 | 4.8 |  |  |  |

## General Data*

| Electrical Life @ rated load | 100 K cycles, average |
| :--- | :--- |
| Mechanical Life | 10 M cycles, average |
| Insulation Resistance | $100 \mathrm{M} \Omega \mathrm{min}$. @ 500 VDC initial |
| Dielectric Strength, Coil to Contact |  |
| Contact to Contact | 5000 V rms min. @ sea level initial <br> $1000 \mathrm{~V} \mathrm{rms} \mathrm{min} @ sea level initial$. |
| Shock Resistance | $500 \mathrm{~m} / \mathrm{s}^{2}$ for 11 ms |
| Vibration Resistance | 1.50 mm double amplitude $10 \sim 40 \mathrm{~Hz}$ |
| Operating Temperature | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ |
| Storage Temperature | $-55^{\circ} \mathrm{C}$ to $+155^{\circ} \mathrm{C}$ |
| Solderability | $260^{\circ} \mathrm{C}$ for 5 s |
| Weight | 14 g |

[^0]
## Ordering Information

| 1. Series J114AF | 1C | S | 12VDC | . 53 |
| :---: | :---: | :---: | :---: | :---: |
| J114AF |  |  |  |  |
| 2. Contact Arrangement 1A = SPST N.O. <br> 1C = SPDT <br> 1AH = SPST N.O. Alternate PC Layout <br> 1CH = SPDT Alternate PC Layout <br> 2A = DPST N.O. <br> $2 \mathrm{C}=\mathrm{DPDT}$ |  |  |  |  |
| 3. Sealing Option S = Sealed |  |  |  |  |
| 4. Contact Voltage  <br> 3VDC 12VDC <br> 5VDC 24 VDC <br> 6VDC 48 VDC |  |  |  |  |
| 5. Coil Power $\begin{aligned} & .53=.53 W \\ & .72=.72 W \end{aligned}$ |  |  |  |  |

## Dimensions



## Schematics \& PC Layouts

## Bottom Views



1A


2A
(8X) Ø1.30

$2 C$


[^0]:    * Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

