## Features

- Switching capacity 16A
- Produced in accordance to IEC 60335-1
- PC board mounting
- UL/CUL certified



## Contact Data*

| Contact Arrangement | $1 \mathrm{~A}=$ SPST N.O. |
| :--- | :--- |
|  | $1 \mathrm{C}=$ SPDT |
|  | $2 \mathrm{~A}=\mathrm{DPST}$ N.O. |
|  | $2 \mathrm{C}=\mathrm{DPDT}$ |


| Contact Resistance | $<50$ milliohms initial |
| :--- | :--- |
| Contact Material | $\mathrm{AgSnO}_{2}$ |
| Maximum Switching Power | $480 \mathrm{~W}, 4000 \mathrm{VA}$ |
| Maximum Switching Voltage | $380 \mathrm{VAC}, 110 \mathrm{VDC}$ |
| Maximum Switching Current | 16 A |


| UL Electrical Rating |  |  | Coil Power |
| :---: | :---: | :---: | :---: |
| 12A Contact Single Pole | NO | 12A @ 250VAC; 30VDC, Resistive, 6 K cycles, $85^{\circ} \mathrm{C}$ | .41W |
|  | NC | 12A @ 250VAC; 30VDC, Resistive, 6 K cycles, $85^{\circ} \mathrm{C}$ |  |
| 16A Contact Single Pole | NO | 16A @ 250VAC; 30VDC, Resistive, 6 K cycles, $85^{\circ} \mathrm{C}$ | .41W |
|  |  | 16A @ 277VAC, Resistive, 100 K cycles, $105^{\circ} \mathrm{C}$ |  |
|  | NC | 16A @ 250VAC; 30VDC, Resistive, 6 K cycles, $85^{\circ} \mathrm{C}$ |  |
| 8A Contact Double Pole | NO | 8A @ 277VAC; 30VDC, Resistive, 6K cycles, $85^{\circ} \mathrm{C}$ | .41W |
|  | NC | 8A @ 277VAC; 30VDC, Resistive, 6K cycles, $85^{\circ} \mathrm{C}$ |  |
| 10A Contact Double Pole | NO | 10A @ 250VAC, Resistive, 50 K cycles, $85^{\circ} \mathrm{C}$ | .53W |
|  |  | 10A @ 30VDC, Resistive, 10 K cycles, $85^{\circ} \mathrm{C}$ |  |

## Coil Data*

| Coil Voltage VDC |  | Coil Resistance$\Omega+/-10 \%$ |  | Pick Up Voltage VDC (max) $75 \%$ of rated voltage | Release Voltage VDC (min) <br> $10 \%$ of rated voltage | Coil Power W | Operate Time ms | Release Time ms |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rated | Max | .41W | . 53 W |  |  |  |  |  |
| 5 | 6.5 | 62 | 47 | 3.75 | . 5 | $\begin{aligned} & .41 \\ & . ~ \end{aligned} 3$ | 10 | 5 |
| 6 | 7.8 | 90 | 67 | 4.50 | . 6 |  |  |  |
| 9 | 11.7 | 202 | 150 | 6.75 | . 9 |  |  |  |
| 12 | 15.6 | 360 | 270 | 9.00 | 1.2 |  |  |  |
| 24 | 31.2 | 1440 | 1050 | 18.00 | 2.4 |  |  |  |
| 48 | 62.4 | 5760 | 4250 | 36.00 | 3.6 |  |  |  |

## General Data*

| Electrical Life @ rated load | 100 K cycles, average |
| :--- | :--- |
| Mechanical Life | 10 M cycles, average |
| Insulation Resistance | $100 \mathrm{M} \Omega$ min. @ 500 VDC initial |
| Dielectric Strength, Coil to Contact |  |
| $\quad$Contact to Contact | 5000 V rms min. @ sea level initial <br> 1000 V rms 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 |

* 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.


## Ordering Information

| 1. Series J114FL 1C | S | 16 | 12VDC | . 41 |
| :---: | :---: | :---: | :---: | :---: |
| J114FL |  |  |  |  |
| 2. Contact Arrangement $\begin{aligned} & 1 A=\text { SPST N.O. } \\ & 1 C=\text { SPDT } \\ & 2 A=\text { DPST N.O. } \\ & 2 C=\text { DPDT } \end{aligned}$ |  |  |  |  |
| 3. Sealing Option S = Sealed |  |  |  |  |
| 4. Contact Rating <br> $12=12 A$, only available with 1 pole relays <br> $16=16 \mathrm{~A}$, only available with 1 pole relays <br> $8=8$ A, only available with 2 pole relays <br> $10=10 \mathrm{~A}$, only available with 2 pole relays \& .53 W coil power |  |  |  |  |
| 5. Coil Voltage 5VDC 6VDC 9VDC 12VDC 24VDC 48VDC |  |  |  |  |
| 6. Coil Power $\begin{aligned} & .41=.41 \mathrm{~W} \\ & .53=.53 \mathrm{~W} \text {, only available with } 2 \text { pole, } 10 \mathrm{~A} \text { contacts } \end{aligned}$ |  |  |  |  |

## Dimensions - 12amp Single Pole

## Units $=\mathrm{mm}$



Dimensions - 16amp Single Pole, 8amp Double Pole, 10amp Double Pole
Units $=\mathbf{m m}$


## Schematics \& PC Layouts

## Bottom Views



1A (12amp)


1A (16amp)


1C (12amp)


1C (16amp)


2C (8amp, 10amp)

