E197852

## Features

- UL F class rated standard
- Small size and light weight, low coil power consumption
- Heavy contact load, strong shock and vibration resistance
- UL/CUL, TÜV certified


## Contact Data*

UL Contact Rating N.O.

| N.O. | 5A @ 280VAC Ballast <br> 5A @ 280VAC General Purpose <br> 20A @ 240VAC Resistive, 250k cycles, 40C <br> 25A @ 277VAC, Resistive 100k cycles, 40C <br> 40A @ 240VAC Resistive, 40C <br> 30A @ 277VAC General Purpose <br> 2hp @ 250VAC, 40C; 1hp @ 125VAC, <br> 50K cycles, 40C |
| :---: | :---: |
| N.C. | 5A @ 280VAC Ballast <br> 5A @ 280VAC General Purpose <br> 30A @ 240VAC Resistive, 40C <br> 30A @ 30VDC, 40C <br> 20A @ 277VAC General Purpose <br> 1-1/2hp @ 250VAC; 1/4hp @ <br> 125VAC, 50K cycles, 40C |

TÜV Contact Rating N.O
40A @ 240VAC; 14VDC
N.C. 30A@ 240VAC; 14VDC 20A@ 277VAC

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

Coil Data DC Parameters*

| Coil Voltage <br> VDC |  | Coil Resistance <br> $\Omega+/-10 \%$ |  | Pick Up Voltage <br> VDC (max) <br> $75 \%$ of rated <br> voltage | Release Voltage <br> VDC (min) <br> $10 \%$ of rated <br> voltage | Coil Power <br> W | Operate Time <br> ms | Release Time <br> ms |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rated | Max | .6 W | .9 W |  |  |  |  |  |
| 5 | 6.5 | 42 | 28 | 3.75 | .5 |  |  |  |
| 9 | 11.7 | 135 | 90 | 6.75 | .9 |  |  |  |
| 12 | 15.6 | 240 | 160 | 9.00 | 60 | .90 | 15 | 10 |
| 24 | 31.2 | 960 | 640 | 18.00 | 1.2 | 2.4 |  |  |
| 48 | 62.4 | 3840 | 2560 | 36.00 | 4.8 |  |  |  |
| 110 | 140.3 | 20167 | 13445 | 82.50 | 11.0 |  |  |  |

Coil Data AC Parameters*

| Coil Voltage VAC |  | Coil Resistance $\Omega+/-10 \%$ | Pick Up Voltage VAC (max) $75 \%$ of rated voltage | Release Voltage VAC (min) $30 \%$ of rated voltage | Coil Power VA | Operate Time ms | Release Time ms |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rated | Max |  |  |  |  |  |  |
| 12 | 15.6 | 27 | 9.00 | 3.6 |  |  |  |
| 24 | 31.2 | 120 | 18.00 | 7.2 |  |  |  |
| 110 | 143 | 2360 | 82.50 | 33.0 |  |  |  |
| 120 | 156 | 3040 | 90.00 | 36.0 | 2VA | 15 | 10 |
| 220 | 286 | 13490 | 165.00 | 66.0 |  |  |  |
| 240 | 312 | 15320 | 180.00 | 72.0 |  |  |  |
| 277 | 360 | 20210 | 207.00 | 83.1 |  |  |  |

Division of Circuit Interruption Technology, Inc.

## J115F2

## General Data*

| Electrical Life @ rated load | 100 K cycles, average |
| :--- | :--- |
| Mechanical Life | 10 M cycles, average |
| Insulation Resistance | $1000 \mathrm{M} \Omega$ min. @ 500VDC initial |
| Dielectric Strength, Coil to Contact | 2500 V rms min. @ sea level initial <br> Contact to Contact |
| 1500 V rms min. @ sea level initial |  |
| Shock Resistance | $200 \mathrm{~m} / \mathrm{s}^{2}$ for 11 ms |
| Vibration Resistance | 1.50 mm double amplitude $10 \sim 40 \mathrm{~Hz}$ |
| Terminal (Copper Alloy) Strength | 10 N |
| 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 | 35 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



## Dimensions

## Units $=\mathbf{m m}$



Blank = Standard Profile


## Schematics \& PC Layouts

## Bottom Views



1A


