

RoHS Compliant



**CIT**  
Relay & Switch

**J115F 50amp**

E197852

21.5 x 15.8 x 16.5 mm

## Features

- 50A version
- Small size and light weight, low coil power consumption
- Heavy contact load, strong shock and vibration resistance

## Contact Data\*

|                     |                                               |                                         |
|---------------------|-----------------------------------------------|-----------------------------------------|
| Contact Rating      | N.O.                                          | 50A @ 240VAC Resistive, 10K cycles 40°C |
|                     | N.C.                                          | 35A @ 240VAC Resistive, 10K cycles 40°C |
| Contact Arrangement | 1A = SPST N.O.<br>1B = SPST N.C.<br>1C = SPDT |                                         |

|                           |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| Contact Resistance        | < 30 milliohms initial                                                 |
| Contact Material          | AgSnO <sub>2</sub> , AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub> |
| Maximum Switching Power   | 1200W, 12000VA                                                         |
| Maximum Switching Voltage | 277VAC, 110VDC                                                         |
| Maximum Switching Current | 50A                                                                    |

## Coil Data DC Parameters\*

| Coil Voltage VDC |      | Coil Resistance Ω +/- 10% | Pick Up Voltage VDC (max) | Release Voltage VDC (min) | Coil Power W | Operate Time ms | Release Time ms |
|------------------|------|---------------------------|---------------------------|---------------------------|--------------|-----------------|-----------------|
| Rated            | Max  | 1.5W                      | 75% of rated voltage      | 10% of rated voltage      | 1.5W         | 15              | 10              |
| 5                | 6.5  |                           | 3.75                      | .5                        |              |                 |                 |
| 9                | 11.7 |                           | 6.75                      | .9                        |              |                 |                 |
| 12               | 15.6 |                           | 9.00                      | 1.2                       |              |                 |                 |
| 24               | 31.2 |                           | 18.00                     | 2.4                       |              |                 |                 |
| 48               | 62.4 |                           | 36.00                     | 4.8                       |              |                 |                 |

## Coil Data AC Parameters\*

| Coil Voltage VAC |      | Coil Resistance Ω +/- 10% | Pick Up Voltage VAC (max) | Release Voltage VAC (min) | Coil Power VA | Operate Time ms | Release Time ms |
|------------------|------|---------------------------|---------------------------|---------------------------|---------------|-----------------|-----------------|
| Rated            | Max  | 2.7VA                     | 75% of rated voltage      | 10% of rated voltage      | 2.7VA         | 15              | 10              |
| 24               | 31.2 |                           | 18.0                      | 7.2                       |               |                 |                 |
| 120              | 156  |                           | 90.0                      | 36.0                      |               |                 |                 |
| 220              | 286  |                           | 165.0                     | 66.0                      |               |                 |                 |
| 240              | 312  |                           | 180.0                     | 72.0                      |               |                 |                 |
| 277              | 360  |                           | 207.0                     | 83.1                      |               |                 |                 |

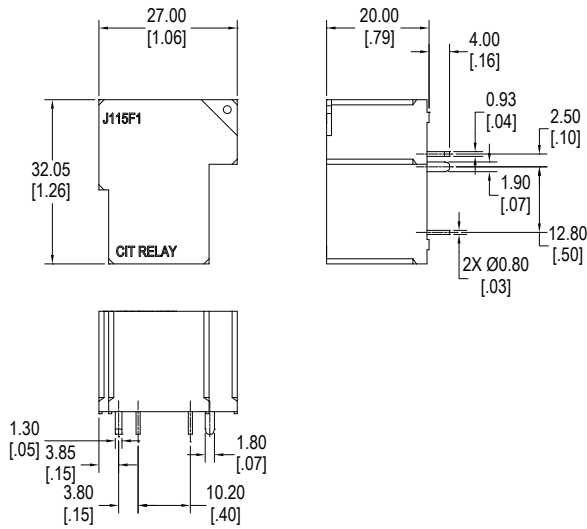


\* Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application.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

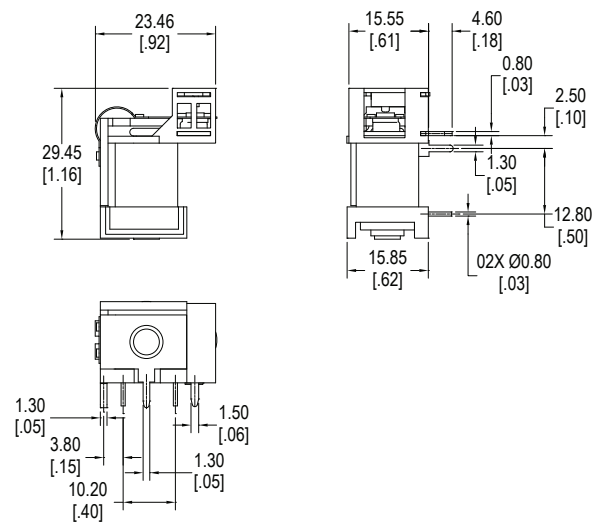
|                                                                                                                                                                                                    |        |    |   |  |       |   |  |     |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|---|--|-------|---|--|-----|--|
| 1. Series                                                                                                                                                                                          | J115F3 | 1A | H |  | 12VDC | S |  | 1.5 |  |
| J115F1 (PC terminals only)<br>J115F2 (PC and quick connect terminals)<br>J115F3 (quick connect terminals only)                                                                                     |        |    |   |  |       |   |  |     |  |
| 2. Contact Arrangement<br>1A = SPST N.O.<br>1B = SPST N.C.<br>1C = SPDT                                                                                                                            |        |    |   |  |       |   |  |     |  |
| 3. Contact Rating<br>H = 50A                                                                                                                                                                       |        |    |   |  |       |   |  |     |  |
| 4. Profile<br>Blank = Standard Profile<br>N = No Cover                                                                                                                                             |        |    |   |  |       |   |  |     |  |
| 5. Coil Voltage<br>5VDC                      24VAC<br>9VDC                      120VAC<br>12VDC                     220VAC<br>24VDC                     240VAC<br>48VDC                     277VAC |        |    |   |  |       |   |  |     |  |
| 6. Sealing Option<br>S = Sealed standard<br>N = No cover, non-sealed                                                                                                                               |        |    |   |  |       |   |  |     |  |
| 7. High Dielectric Strength Option<br>6 = Standard dielectric strength<br>H = High dielectric strength *J115F1 style only                                                                          |        |    |   |  |       |   |  |     |  |
| 8. Coil Power<br>1.5 = 1.5W                                                                                                                                                                        |        |    |   |  |       |   |  |     |  |
| 9. Contact Material<br>Blank = AgSnO <sub>2</sub><br>U = AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub>                                                                                         |        |    |   |  |       |   |  |     |  |

## Dimensions - J115F1

Units = mm



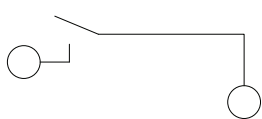
**Standard Profile**



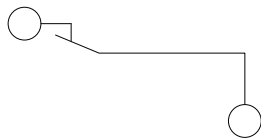
**N = No Cover**

## Schematics & PC Layouts - J115F1

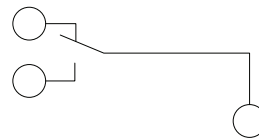
Bottom View



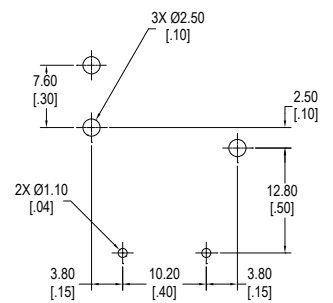
**1A**



**1B**



**1C**



# CIT

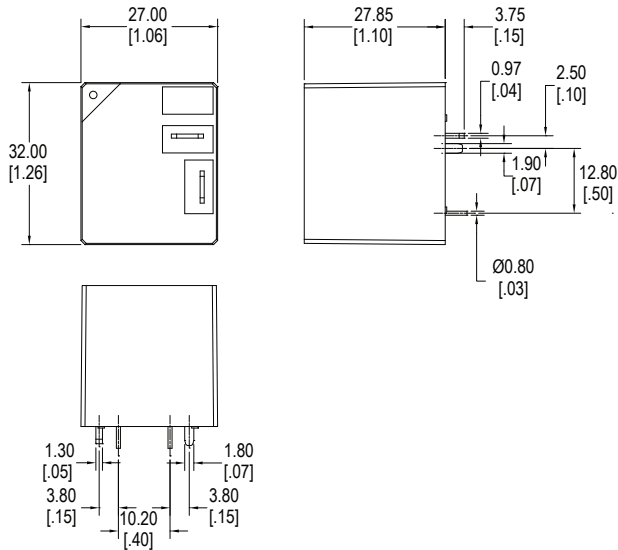
Relay & Switch

## J115F 50amp



### Dimensions - J115F2

Units = mm



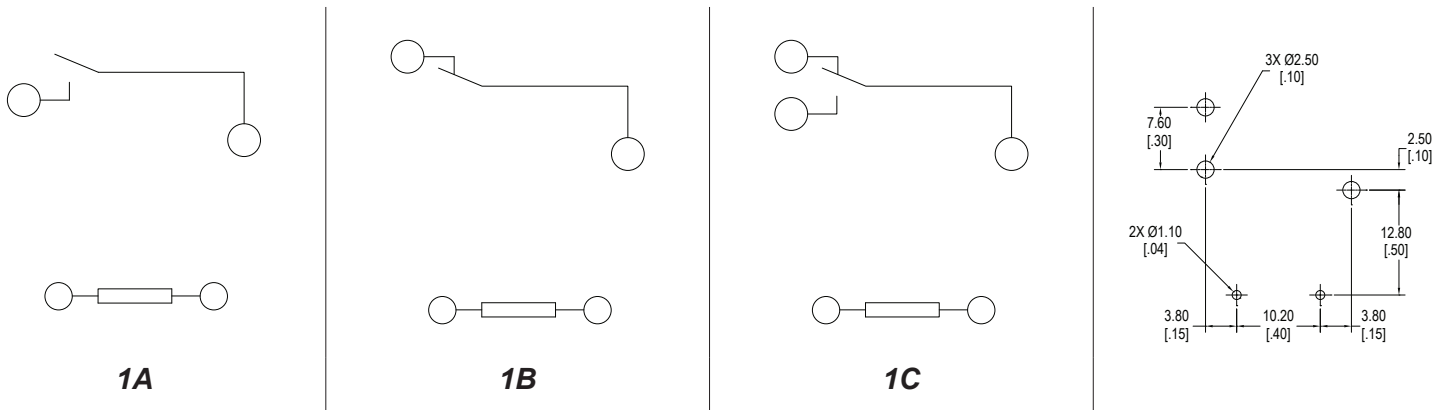
#### Standard Profile

**\*\* Quick Connect Terminals :**

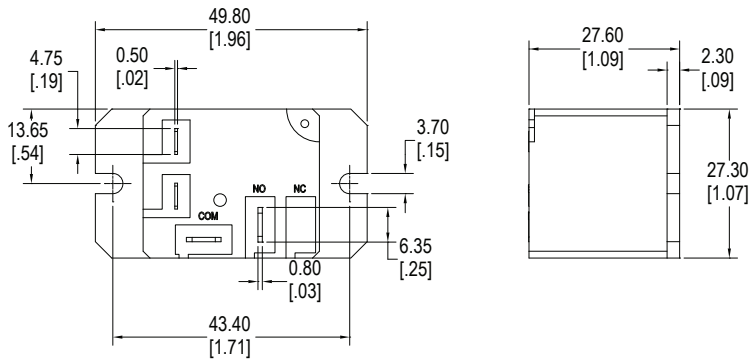
**Contacts - 6.35 x .81mm (.250" x .032")**

### Schematics & PC Layouts - J115F2

Bottom View



**Units = mm**



### Standard Profile

**Contacts - 6.35 x .81mm (.250" x .032")**

**Coil - 4.75 x .50mm (.187" x .020")**

### Top View

