

Distributor: Electro-Stock [www.electrostock.com](http://www.electrostock.com) Tel: 630-682-1542 Fax: 630-682-1562

**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 certified

 **E197852**



26.9 x 31.7 x 20.3 mm

## CONTACT DATA

|                           |   |
|---------------------------|---|
| Contact Arrangement       | 1A = SPST N.O.<br>1B = SPST N.C.<br>1C = SPDT   |
| Contact Rating            | N.O. 40A @ 240VAC resistive; 30A @ 277VAC General Purpose<br>2 hp @ 250VAC<br>N.C. 30A @ 240VAC resistive, 30VDC; 20A @ 277VAC General Purpose<br>1-1/2 hp @ 250VAC |
| 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   | 9600VA, 1120W   |
| Maximum Switching Voltage | 277VAC, 110VDC  |
| Maximum Switching Current | 40A   |

## COIL DATA

| 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.  | 0.6W                    | 0.9W  | 75% of rated voltage      | 10% of rated voltage      |              |                 |                 |
| 3                | 3.9   | 15                      | 10    | 2.25                      | 0.3                       | .60<br>.90   | 15              | 10              |
| 5                | 6.5   | 42                      | 28    | 3.75                      | 0.5                       |              |                 |                 |
| 6                | 7.8   | 60                      | 40    | 4.50                      | 0.6                       |              |                 |                 |
| 9                | 11.7  | 135                     | 90    | 6.75                      | 0.9                       |              |                 |                 |
| 12               | 15.6  | 240                     | 160   | 9.00                      | 1.2                       |              |                 |                 |
| 15               | 19.5  | 375                     | 250   | 10.25                     | 1.5                       |              |                 |                 |
| 18               | 23.4  | 540                     | 360   | 13.50                     | 1.8                       |              |                 |                 |
| 24               | 31.2  | 960                     | 640   | 18.00                     | 2.4                       |              |                 |                 |
| 48               | 62.4  | 3840                    | 2560  | 36.00                     | 4.8                       |              |                 |                 |
| 110              | 140.3 | 20167                   | 13445 | 82.50                     | 11.0                      |              |                 |                 |

## AC COIL 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. |  | 75% of rated voltage      | 30% of rated voltage      |               |                 |                 |
| 12               | 15.6 | 27<br>120<br>2360<br>3040<br>13490<br>15320<br>20210 | 9.0                       | 3.6                       | 2VA           | 15              | 10              |
| 24               | 31.2 |  | 18.0                      | 7.2                       |               |                 |                 |
| 110              | 143  |  | 82.5                      | 33                        |               |                 |                 |
| 120              | 156  |  | 90                        | 36                        |               |                 |                 |
| 220              | 286  |  | 165                       | 66                        |               |                 |                 |
| 240              | 312  |  | 180                       | 72                        |               |                 |                 |
| 277              | 360  |  | 207                       | 83.1                      |               |                 |                 |

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## GENERAL DATA

|                                      |  |
|--------------------------------------|--|
| Electrical Life @ rated load         | 100K cycles, typical   |
| Mechanical Life                      | 10M cycles, typical  |
| Insulation Resistance                | 100MΩ min @ 500VDC   |
| Dielectric Strength, Coil to Contact | 4000V rms min. @ sea level (With Pin 6 removed)<br>2500V rms min. @ sea level (With Pin 6) |
| Contact to Contact                   | 1500V rms min. @ sea level   |
| Shock Resistance                     | 200m/s <sup>2</sup> for 11ms   |
| Vibration Resistance                 | 1.50mm double amplitude 10-40Hz  |
| Terminal (Copper Alloy) Strength     | 10N  |
| Operating Temperature                | -55 °C to + 125 °C   |
| Storage Temperature                  | -55 °C to + 155 °C   |
| Solderability                        | 230 °C ± 2 °C for 10 ± 0.5s  |
| Weight                               | 30g, 27g (no cover)  |

## ORDERING INFORMATION

|                                |   |    |       |   |   |   |
|--------------------------------|---|----|-------|---|---|---|
| <b>1. Series:</b>              | WJ115F1   | 1C | 12VDC | S | 6 | 6 |
| WJ115F1                        |   |    |       |   |   |   |
| <b>2. Contact Arrangement:</b> | <ul style="list-style-type: none"> <li>1A = SPST N.O.</li> <li>1B = SPST N.C.</li> <li>1C = SPDT</li> </ul>   |    |       |   |   |   |
| <b>4. Coil Voltage:</b>        | <ul style="list-style-type: none"> <li>3VDC</li> <li>5VDC</li> <li>6VDC</li> <li>9VDC</li> <li>12VDC</li> <li>15VDC</li> <li>18VDC</li> <li>24VDC</li> <li>48VDC</li> <li>110VDC</li> <li>12VAC</li> <li>24VAC</li> <li>110VAC</li> <li>120VAC</li> <li>220VAC</li> <li>240VAC</li> <li>277VAC</li> </ul> |    |       |   |   |   |
| <b>5. Sealing Options:</b>     | <ul style="list-style-type: none"> <li>S = Sealed (standard)</li> <li>N = No cover</li> </ul>   |    |       |   |   |   |
| <b>6. Option:</b>              | <ul style="list-style-type: none"> <li>None = Pin 6 Included</li> <li>6 = Pin 6 Removed</li> </ul>  |    |       |   |   |   |
| <b>7. Coil Power:</b>          | <ul style="list-style-type: none"> <li>.9 = .9W</li> <li>.6 = .6W</li> <li>Blank = 2VA (AC Coil)</li> </ul>   |    |       |   |   |   |
| <b>8. Contact Material:</b>    | <ul style="list-style-type: none"> <li>Blank = AgSnO<sub>2</sub></li> <li>U = AgSnO<sub>2</sub>In<sub>2</sub>O<sub>3</sub></li> </ul>   |    |       |   |   |   |

**DIMENSIONS (Units = mm)**

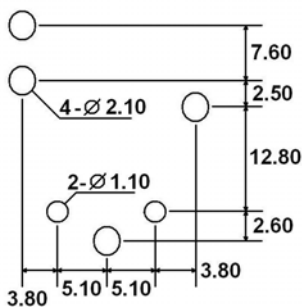
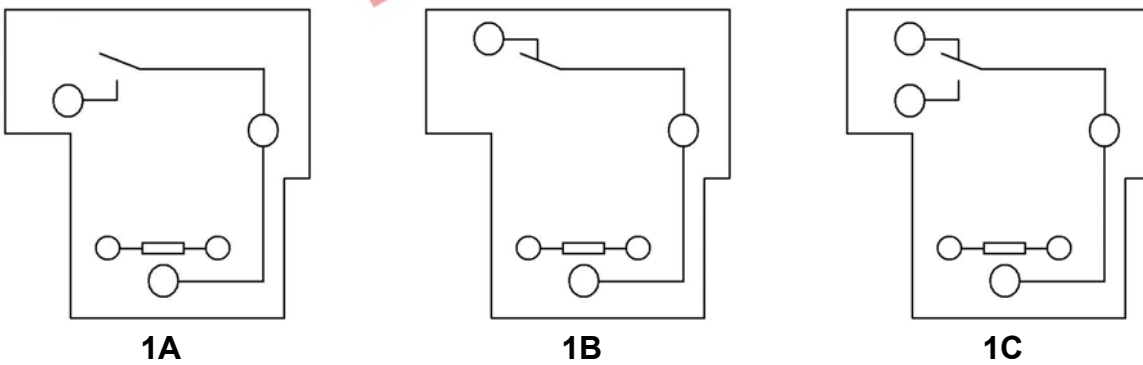


**S = SEALED**

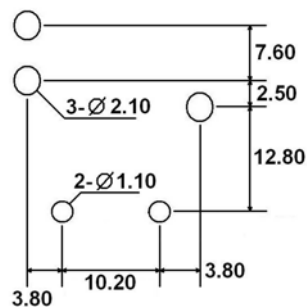


**N = NO COVER**

**SCHEMATICS & PC LAYOUTS (BOTTOM VIEWS)**



**WITH PIN 6**



**WITHOUT PIN 6**