



## Features

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

## Contact Data

|                     |                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact Arrangement | 1A = SPST N.O.<br>1B = SPST N.C.<br>1C = SPST                                                                                                                                 |
| Contact Rating      | N.O. 40A @ 240VAC Resistive<br>30A @ 277VAC General Purpose<br>2hp @ 250VAC<br>N.C. 30A @ 240VAC Resistive<br>30A @ 30VDC<br>20A @ 277VAC General Purpose<br>1-1/2hp @ 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 DC Parameters

| Coil Voltage<br>VDC |       | Coil Resistance<br>Ω +/- 10% |       | Pick Up Voltage<br>VDC (max) | Release Voltage<br>VDC (min) | Coil Power<br>W | Operate Time<br>ms | Release Time<br>ms |
|---------------------|-------|------------------------------|-------|------------------------------|------------------------------|-----------------|--------------------|--------------------|
| Rated               | Max   | .6W                          | .9W   | 75% of rated<br>voltage      | 10% of rated<br>voltage      |                 |                    |                    |
| 3                   | 3.9   | 15                           | 10    | 2.25                         | .3                           | .60<br>.90      | 15                 | 10                 |
| 5                   | 6.5   | 42                           | 28    | 3.75                         | .5                           |                 |                    |                    |
| 6                   | 7.8   | 60                           | 40    | 4.50                         | .6                           |                 |                    |                    |
| 9                   | 11.7  | 135                          | 90    | 6.75                         | .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                         |                 |                    |                    |

## Coil Data AC Parameters

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

Specifications and availability subject to change without notice.

Dimensions shown in mm. Dimensions are shown for reference purposes only.

## General Data

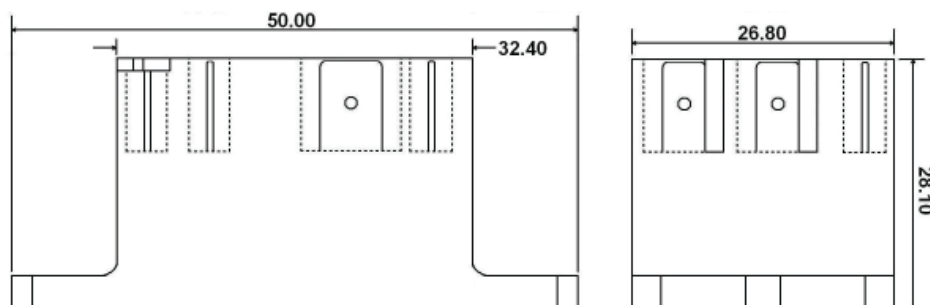
|                                                            |                                                          |
|------------------------------------------------------------|----------------------------------------------------------|
| Electrical Life @ rated load                               | 100K cycles, typical                                     |
| Mechanical Life                                            | 10M cycles, typical                                      |
| Insulation Resistance                                      | 100M Ω min. @ 500VDC                                     |
| Dielectric Strength, Coil to Contact<br>Contact to Contact | 2500V rms min. @ sea level<br>1500V rms min. @ sea level |
| Shock Resistance                                           | 200m/s <sup>2</sup> for 11 ms                            |
| 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                                              | 260°C for 5 s                                            |
| Weight                                                     | 37g                                                      |

## Ordering Information

|                                                       |        |    |  |       |   |    |
|-------------------------------------------------------|--------|----|--|-------|---|----|
| 1. Series                                             | J115F3 | 1A |  | 12VDC | S | .6 |
| J115F3                                                |        |    |  |       |   |    |
| 2. Contact Arrangement                                |        |    |  |       |   |    |
| 1A = SPST N.O.                                        |        |    |  |       |   |    |
| 1B = SPST N.C.                                        |        |    |  |       |   |    |
| 1C = SPDT                                             |        |    |  |       |   |    |
| 3. Profile                                            |        |    |  |       |   |    |
| Blank = Standard Profile                              |        |    |  |       |   |    |
| L = Low Profile                                       |        |    |  |       |   |    |
| 4. Coil Voltage                                       |        |    |  |       |   |    |
| 3VDC                      12VAC                       |        |    |  |       |   |    |
| 5VDC                      24VAC                       |        |    |  |       |   |    |
| 6VDC                      110VAC                      |        |    |  |       |   |    |
| 9VDC                        120VAC                    |        |    |  |       |   |    |
| 12VDC                      220VAC                     |        |    |  |       |   |    |
| 15VDC                      240VAC                     |        |    |  |       |   |    |
| 18VDC                      277VAC                     |        |    |  |       |   |    |
| 24VDC                                                 |        |    |  |       |   |    |
| 48VDC                                                 |        |    |  |       |   |    |
| 110VDC                                                |        |    |  |       |   |    |
| 5. Sealing Option                                     |        |    |  |       |   |    |
| S = Sealed                                            |        |    |  |       |   |    |
| 6. Coil Power                                         |        |    |  |       |   |    |
| .9 = .9W DC Coil                                      |        |    |  |       |   |    |
| .6 = .6W DC Coil                                      |        |    |  |       |   |    |
| Blank = 2VA (AC Coil)                                 |        |    |  |       |   |    |
| 7. Contact Material                                   |        |    |  |       |   |    |
| Blank = AgSnO <sub>2</sub>                            |        |    |  |       |   |    |
| U = AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub> |        |    |  |       |   |    |

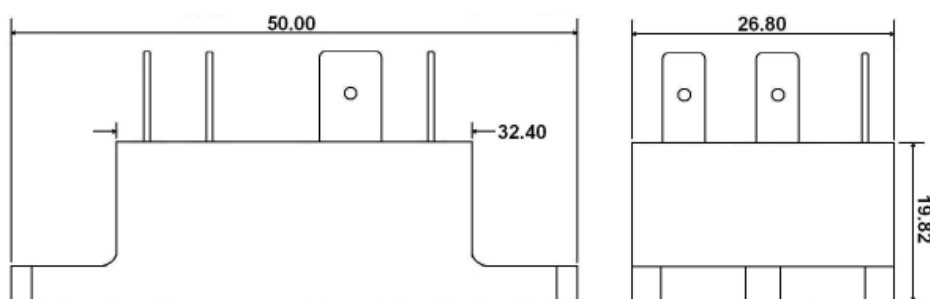
## Dimensions

Units = mm



**Standard Cover**

**\*\* Quick Connect Terminals : Contacts - 6.35 x .81mm (.250" x 0.032")**  
**Coil - 4.75 x .50mm (.187" x .020") standard**

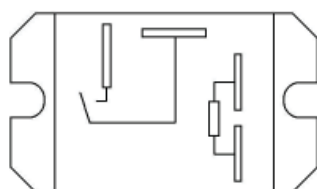


**L = Low Profile**

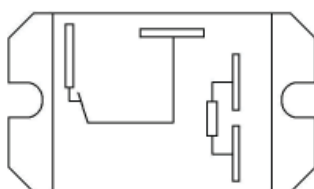
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## Schematics & Panel Layouts

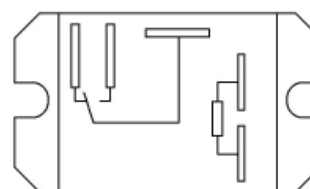
Top Views



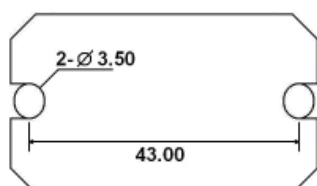
**1A**



**1B**



**1C**



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