

## Features

- Small size, light weight, low power consumption
- High density mounting
- Narrow width: 7.1mm
- UL/CUL certified

**UL**  
E197851



## Contact Data\*

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Contact Arrangement | 1A = SPST                                                                           |
| Contact Rating      | 5A @ 277VAC Resistive, 100K cycles, 85°C<br>5A @ 30VDC Resistive, 100K cycles, 85°C |
| Contact Resistance  | < 50 milliohms initial                                                              |

|                           |               |
|---------------------------|---------------|
| Contact Material          | AgNi          |
| Maximum Switching Power   | 150W, 1385VA  |
| Maximum Switching Voltage | 30VDC, 277VAC |
| Maximum Switching Current | 5A            |

## Coil Data\*

| Coil Voltage<br>VDC |      | Coil Resistance<br>$\Omega$ +/- 10% | Pick Up Voltage<br>VDC (max)<br><br>75% of rated<br>voltage | Release Voltage<br>VDC (min)<br><br>10% of rated<br>voltage | Coil Power<br>W | Operate Time<br>ms | Release Time<br>ms |
|---------------------|------|-------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-----------------|--------------------|--------------------|
| Rated               | Max  |                                     |                                                             |                                                             |                 |                    |                    |
| 5                   | 6.5  | 125                                 | 3.75                                                        | 0.5                                                         | .20             | ≤10                | ≤10                |
| 12                  | 15.6 | 720                                 | 9.00                                                        | 1.2                                                         |                 |                    |                    |
| 18                  | 23.4 | 1620                                | 13.50                                                       | 1.8                                                         |                 |                    |                    |
| 24                  | 31.2 | 2880                                | 18.00                                                       | 2.4                                                         |                 |                    |                    |

## General Data\*

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| Electrical Life @ rated load | 100K cycles, average                                 |
| Mechanical Life              | 500K cycles, average                                 |
| Insulation Resistance        | 100M $\Omega$ min. @ 500VDC initial                  |
| Dielectric Strength,         | Coil to Contact 4000V rms min. @ sea level initial   |
|                              | Contact to Contact 750V rms min. @ sea level initial |
| Shock Resistance             | Functional 100m/s <sup>2</sup>                       |
|                              | Destructive 1000m/s <sup>2</sup>                     |
| Vibration Resistance         | Functional 1.50mm double amplitude 10~55Hz           |
|                              | Destructive 1.50mm double amplitude 10~55Hz          |
| Operating Temperature        | -40°C to +85°C                                       |
| Storage Temperature          | -40°C to +85°C                                       |
| Solderability                | 260°C for 5s                                         |
| Weight                       | 4g                                                   |

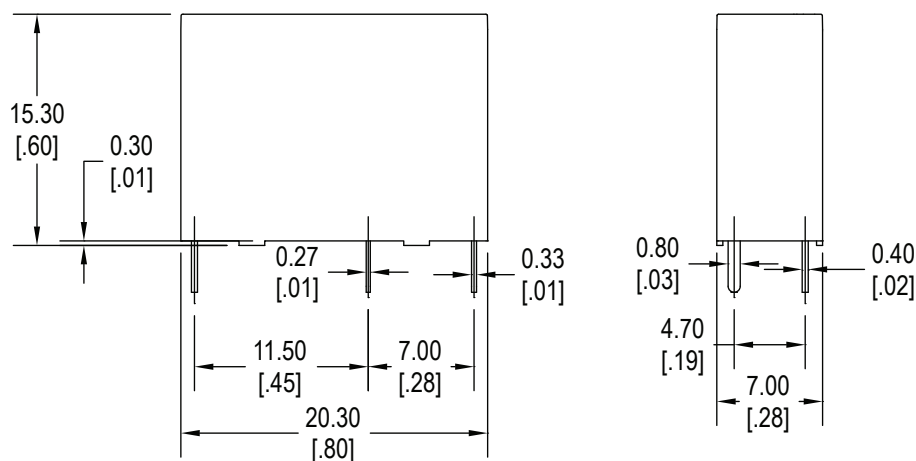
\* Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application.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

## Ordering Information

|                        |      |    |   |       |     |
|------------------------|------|----|---|-------|-----|
| 1. Series              | J113 | 1A | S | 12VDC | .20 |
| J113                   |      |    |   |       |     |
| 2. Contact Arrangement |      |    |   |       |     |
| 1A = SPST              |      |    |   |       |     |
| 3. Sealing Option      |      |    |   |       |     |
| S = Sealed             |      |    |   |       |     |
| 4. Contact Voltage     |      |    |   |       |     |
| 5VDC                   |      |    |   |       |     |
| 12VDC                  |      |    |   |       |     |
| 18VDC                  |      |    |   |       |     |
| 24VDC                  |      |    |   |       |     |
| 4. Coil Power          |      |    |   |       |     |
| .20 = .20W             |      |    |   |       |     |

## Dimensions

Units = mm



## Schematics & PC Layouts

Bottom Views

