



# SRUHH series

## 15 Amp Miniature Power PC Board Relay

**UL** File No. E82292

**TUV** File No. R60271

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

### Features

- 15 Amp switching capacity.
- 1 Form A and 1 Form C contact arrangements.
- Immersion cleanable, sealed version available.
- Applications include appliance, HVAC, security system, garage opener control, emergency lighting.

### Contact Data @ 20°C

**Arrangements:** 1 Form A (SPST-NO) and 1 Form C (SPDT).

**Material:** Silver cadmium oxide.

**Max. Switching Rate:** 300 ops./min. (no load).  
20 ops./min. (rated load).

**Expected Mechanical Life:** 10 million operations (no load).

**Expected Electrical Life:** 100,000 operations (rated load, relay vented).

**Minimum Load:** 100mA @ 5VDC.

**Initial Contact Resistance:** 100 milliohms @ 1A, 6VDC.

### Contact Ratings

**Ratings:** 15A @ 120VAC resistive,  
10A @ 240VAC resistive,  
10A @ 28VDC resistive.

**Max. Switched Voltage:** AC: 240V.  
DC: 28V.

**Max. Switched Current:** 15A.

**Max. Switched Power:** 2,400VA, 300W.

**Note:** Sealed relays should be vented after soldering and cleaning in order to achieve listed ratings.

### Initial Dielectric Strength

**Between Open Contacts:** 750VAC 50/60 Hz. (1 minute).

**Between Coil and Contacts:** 1,500VAC 50/60 Hz. (1 minute).

**Surge Voltage Between Coil and Contacts:** 3,000V (1.2 / 50μs).

### Initial Insulation Resistance

**Between Mutually Insulated Elements:** 100M ohms min. @ 500VDC.

### Coil Data

**Voltage:** 3 to 48VDC.

**Nominal Power:** 360 mW except 48VDC coil (510mW).

**Coil Temperature Rise:** 60°C max., at rated coil voltage.

**Max. Coil Power:** 130% of nominal.

**Duty Cycle:** Continuous.

### Coil Data @ 20°C

SRUHH				
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)
3	120	25	2.25	0.30
6	60	100	4.50	0.60
9	40	225	6.75	0.90
12	30	400	9.00	1.20
24	15	1,600	18.00	2.40
48	10	4,500	36.00	4.80

### Operate Data

**Must Operate Voltage:** 75% of nominal voltage or less.

**Must Release Voltage:** 10% of nominal voltage or more.

**Operate Time:** 15 ms max.

**Release Time:** 5 ms max.

### Environmental Data

**Temperature Range:**

**Operating:** -30°C to +60°C

**Vibration, Mechanical:** 10 to 55 Hz., 1.5mm double amplitude

**Operational:** 10 to 55 Hz., 1.5mm double amplitude.

**Shock, Mechanical:** 1,000m/s<sup>2</sup> (100G approximately).

**Operational:** 100m/s<sup>2</sup> (10G approximately).

**Operating Humidity:** 20 to 85% RH. (Non-condensing).

### Mechanical Data

**Termination:** Printed circuit terminals.

**Enclosure (94V-0 Flammability Ratings):**

**SRUHH-SS:** Vented (Flux-tight) plastic cover

**SRUHH-SH:** Sealed plastic case

**Weight:** 0.42 oz (12g) approximately.

## Ordering Information

Typical Part Number ►

**SRUUH -SS -1 12 D 1 M ,000**

### 1. Basic Series:

SRUUH = Miniature Power PC board relay.

### 2. Enclosure:

SS = Vent (Flux-tight)\* plastic cover. SH = Sealed, plastic case.

### 3. Termination:

1 = 1 pole

### 4. Coil Voltage:

03 = 3VDC      09 = 9VDC      24 = 24VDC  
06 = 6VDC      12 = 12VDC      48 = 48VDC

### 5. Coil Input:

D = Standard

### 6. Contact Material:

1 = Silver Cadmium Oxide

### 7. Contact Arrangement:

Leave Blank = 1 Form C, SPDT      M = 1 Form A, SPST-NO

### 8. Option:

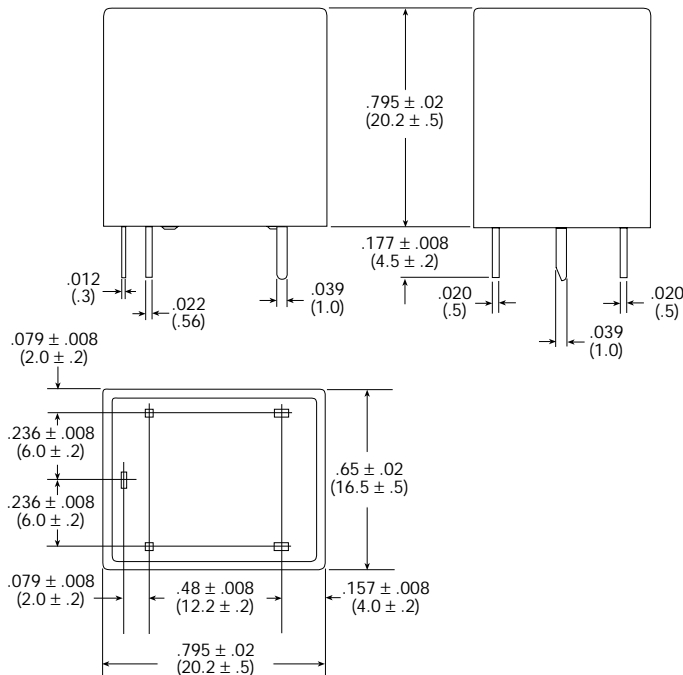
,000 = Standard model.      Other Suffix = Custom model.

\* Not suitable for immersion cleaning processes.

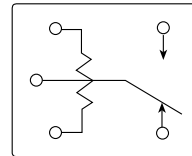
**Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.**

SRUUH-SH112D1M,000      SRUUH-SH112D1,000  
SRUUH-SH124D1M,000      SRUUH-SH124D1,000

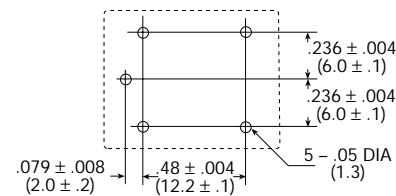
## Outline Dimensions



## Wiring Diagram (Bottom View)



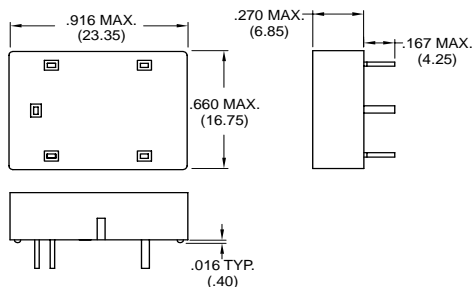
## PC Board Layout (Bottom View)



**Note:** Only necessary terminals are present on 1 Form A (SPST-NO) models.

## Socket

**27E1064** socket is rated 10A @ 300VAC. UL Recognized for US and Canada. Designed to fit same suggested board layout as relay.



## Hold-Down Spring

**20C430** spring is designed to secure SRUUH relay in 27E1064 socket.

