OEG



SRUDH series

12 Amp Miniature Power PC Board Relay

Appliances, HVAC, Office Machines

Nominal Power: 360 mW except 48VDC coil (510mW) Coil Temperature Rise: 35°C max., at rated coil voltage.

H	UL	File	No.	E82292
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🛕 TUV File No. R60271

Max. Coil Power: 130% of nominal.

Nominal

Current

(mA)

60

40

30

15

10

Coil Data

Rated Coil

Voltage

(VDC)

6

9

12

24

48

Operate Data

Operate Time: 15 ms max.

Voltage: 6 to 48VDC.

Duty Cycle: Continuous. Coil Data @ 20°C

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.

SRUDH

Coil

Resistance

(ohms) ± 10%

100

225

400

1.600

4.500

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

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

Must Operate

Voltage

(VDC)

4.50

6.75

9.00

18.00

36.00

Must Release

Voltage

(VDC)

0.60

0.90

1.20

2.40

4.80

Features

- · Small package, 12 Amp switching capcity.
- 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: Ag Alloy Max. Switching Rate: 300 ops./min. (no load)

30 ops./min. (rated load).

Expected Mechanical Life: 10 million operations (no load). Expected Electrical Life: 100,000 operations (rated load). Minimum Load: 100mA @ 5VDC Initial Contact Resistance: 100 milliohms @ 1A, 6VDC.

Contact Ratings

Ratings: 12A @ 120VAC resistive, 10A @ 240VAC resistive, 10A @ 28VDC resistive.

> 4A @ 120VAC inductive (cosø= 0.4), 4A @ 28VDC inductive (L/R=7msec)

Max. Switched Voltage: AC: 240V.

DC: 28V Max. Switched Current: 12A

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

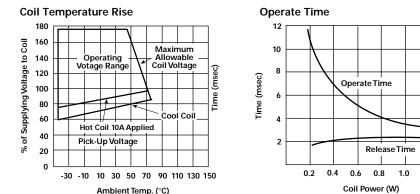
Initial Dielectric Strength

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

Reference Data

Between Mutually Insulated Elements: 1,000M ohms min. @ 500VDCM.



Note: Rise data is based on the max. allowable temp. for E type insulation coil (115°C).

Dimensions are shown for reference purposes only 442

Dimensions are in inches over (millimeters) unless otherwise specified.

Specifications and availability subject to change

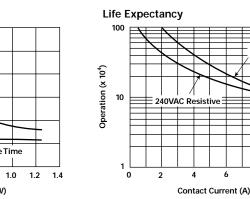
10

12

8

6

24VDC Resistive



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/s² (100G approximately). Operational: 100m/s² (10G approximately) Operating Humidity: 20 to 85% RH. (Non-condensing)

Mechanical Data

Termination: Printed circuit terminals. Enclosure (94V-0 Flammability Ratings): SRUDH-SS: Vented (Flux-tight) plastic cover SRUDH-SH: Sealed plastic case Weight: 0.42 oz (12g) approximately

OEG

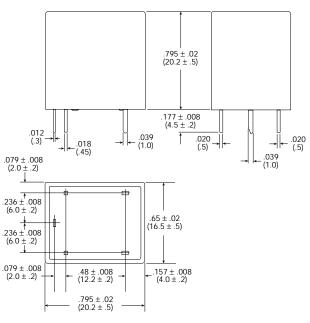
Ordering Information											
	Typical Part Number 🕨	SRUDH	-SS	-1	12	D	Μ	1	,000,		
1. Basic Series: SRUDH = Miniature Power PC be	oard relay.										
2. Enclosure: SS = Vent (Flux-tight)* plastic con SH = Sealed, plastic case.	ver.										
3. Termination: 1 = 1 pole											
4. Coil Voltage: 06 = 6VDC 12 = 12VDC 09 = 9VDC 24 = 24VDC	48 = 48VDC				-						
5. Coil Input: D = Standard						-					
6. Contact Arrangement: Blank = 1 Form C, SPDT	M = 1 Form A, SPST-NO										
7. Contact Material: 1 = AgCdO											
8. Suffix: ,000 = Standard model Othe	er Suffix = Custom model										

* Not suitable for immersion cleaning processes.

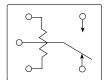
Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

SRUDH-SH-112D1,000 SRUDH-SH-124D1,000 SRUDH-SH-112DM1,000 SRUDH-SH-124DM1,000

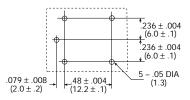
Outline Dimensions



Wiring Diagram (Bottom View)

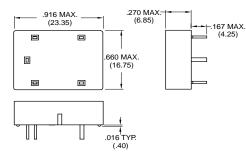


PC Board Layout (Bottom View)



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 SRUDH relay in 27E1064 socket.

