

**Miniature PCB Relay SRU Series**

- Up to 12A switching capacity
- 1 form A (NO) and 1 form C (CO) contacts
- Flux proof, wash tight version available

Typical applications  
Appliances, HVAC, office machines



**Approvals**

cULus E58304, TUV R50137369  
Technical data of approved types on request

**Contact Data**

Contact arrangement	1 form A (NO), 1 form C (CO)
Rated voltage	240VAC, 28VDC
Max. switching voltage	240VAC, 28VDC
Rated current	12A
Contact material	AgCdO, AgSnO <sub>2</sub> , AgSnOInO
Min. recommended contact load	100mA at 5VDC
Frequency of operation	360 ops./h
Operate/release time max.	10/5ms

**Electrical endurance**

Type	Contact	Load	Operations
SRUDH		10A, 240VAC/24VDC res, -30 to +80°C	100x10 <sup>3</sup>
SRUUH	AgCdO	12A, 240VAC/24VDC res, -30 to +80°C	100x10 <sup>3</sup>
SRUUH	AgSnOInO	15A, 250VAC res, 50x10 <sup>3</sup>	
SRUUH	AgSnOInO	28VDC, 12A res, -30 to + 80°C,	100x10 <sup>3</sup>

Contact ratings	12A
Mechanical endurance, DC coil	5x10 <sup>6</sup> operations

**Coil Data**

Coil voltage range	3 to 48VDC
Operative range, IEC 61810	1
Coil insulation system according UL	Class F

**Coil Data (continued)**

**Coil versions, DC coil**

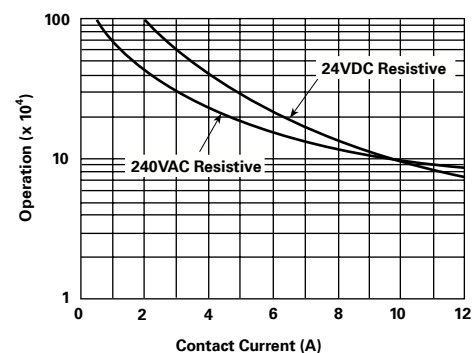
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
003	3	2.25	0.15	25	360
005	5	3.75	0.25	70	360
006	6	4.50	0.30	100	360
009	9	6.75	0.45	225	360
012	12	9.00	0.60	400	360
018	18	13.50	0.90	900	360
024	24	18.00	1.20	1600	360
048	48	36.00	2.40	4500	510

All figures are given for coil without pre-energization, at ambient temperature +23°C.

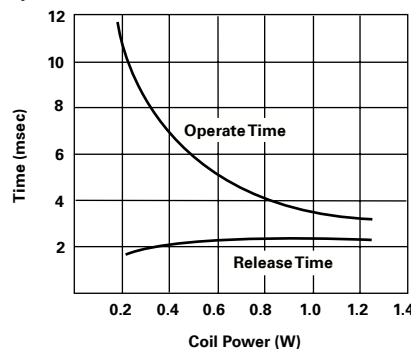
**Insulation Data**

Initial dielectric strength	
between open contacts	750V <sub>rms</sub>
between contact and coil	1500V <sub>rms</sub>
Clearance/creepage	
between contact and coil	>1.6/3.2mm

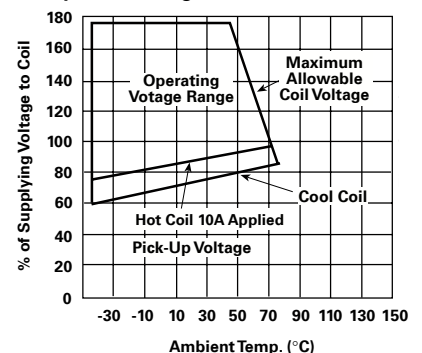
**Electrical endurance**



**Operate time**



**Coil operative range**



**Miniature PCB Relay SRU Series** (Continued)

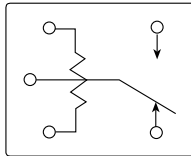
**Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.tycoelectronics.com/customersupport/rohssupportcenter](http://www.tycoelectronics.com/customersupport/rohssupportcenter)

Ambient temperature	-30°C to +80°C	
Category of environmental protection	IEC 61810	
	RTII - flux proof	
	RTIII - wash tight	
Shock resistance (functional)	10g	
Shock resistance (destructive)	100g	
Weight	12g	
Resistance to soldering heat THT	IEC 60068-2-20	
	RTII: 270°C/10s	
	RTIII: 260°C/5s	
Packaging/unit	tube/25 pcs., carton box/1000 pcs.	

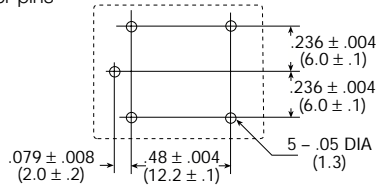
**Terminal assignment**

Bottom view on solder pins

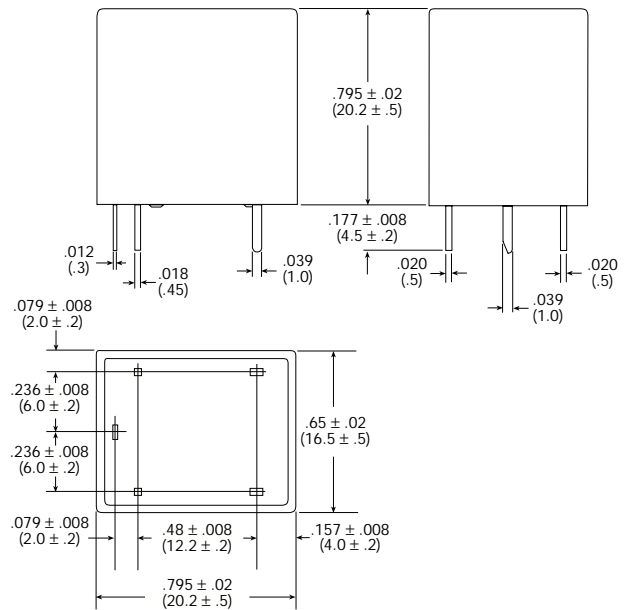


**PCB layout**

Bottom view on solder pins



**Dimensions**



**Miniature PCB Relay SRU Series** (Continued)

<b>Product code structure</b>	Typical product code	<b>SRUDH</b>	<b>-SS</b>	<b>-1</b>	<b>12</b>	<b>D</b>	<b>M</b>	<b>1</b>	<b>F</b>	<b>,000</b>
<b>Type</b>	SRUDH Miniature PCB Relay SRU series									
<b>Enclosure</b>	<b>SS</b> Flux proof <b>SH</b> Immersion cleanable case with knock-off nib									
<b>Number of poles</b>	1 1 pole									
<b>Coil voltage</b>	Coil code: please refer to coil versions table (e.g. 05=5VDC)									
<b>Coil input</b>	D Standard									
<b>Contact arrangement</b>	<b>Blank</b> 1 form C (CO) contact <b>M</b> 1 form A (NO) contact									
<b>Contact material</b>	<b>1</b> AgCdO <b>2</b> AgSnO <sub>2</sub> <b>4</b> AgSnOInO									
<b>UL insulation system</b>	<b>Blank</b> UL Class A <b>F</b> UL Class F									
<b>Suffix</b>	,000 Standard									

Other types on request

Product code	Enclosure	Coil	Arrangement	Cont.material	Insulation	Part number
SRUDH-SH-106D1,000	Wash tight	6VDC	1 form C (CO)	AgCdO	Class A	7-1419126-7
SRUDH-SH-112D1,000		12VDC				8-1419126-1
SRUDH-SH-112DM1,000	Flux proof	24VDC	1 form A (NO)	AgCdO	Class A	8-1419126-4
SRUDH-SH-124D1,000			1 form C (CO)			1440003-7
SRUDH-SH-124DM1,000		1 form A (NO)	9-1419126-0			
SRUDH-SH-124DM1F,0000			Class F			1440003-8
SRUDH-SH-148D1,000		48VDC	1 form C (CO)			9-1419126-4
SRUDH-SH-105D1,000		5VDC				9-1419126-7
SRUDH-SS-109D1,000	12VDC	9VDC		AgCdO	Class A	1419127-3
SRUDH-SS-112D1,000						1-1419127-2
SRUDH-SS-112DM1,000	1 form A (NO)			AgSnO	Class F	1-1419127-6
SRUDH-SS-112DM2F,00000						2071054-5
SRUDH-SS-124D1,000	24VDC	1 form C (CO)		AgCdO	Class A	2-1419127-3
SUUH-SH-112D1,000	Wash tight	12VDC		AgSnOInO		1-1461759-0
SUUH-SH-112DM4,000			1 form A (NO)			1-1649406-0
SUUH-SH-124DM4,000	Flux proof	24VDC		AgCdO	Class F	1-1649406-1
SUUH-SS-112D1F,000		12VDC	1 form C (CO)			1649501-4
SUUH-SS-112D4,000	24VDC			AgSnOInO	Class A	1649408-4
SUUH-SS-124D4,000						1649408-5
SUUH-SS-124DM4,000			1 form A (NO)			1649406-5