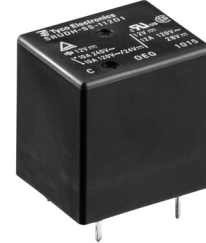


## Miniature PCB Relay SRU Series

- 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

UL 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>
SRUHH	AgCdO	12A, 240VAC/24VDC res, -30 to +80°C	100x10 <sup>3</sup>
SRUHH	AgSnOInO	15A, 250VAC res, -30 to +80°C	50x10 <sup>3</sup>
SRUHH	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

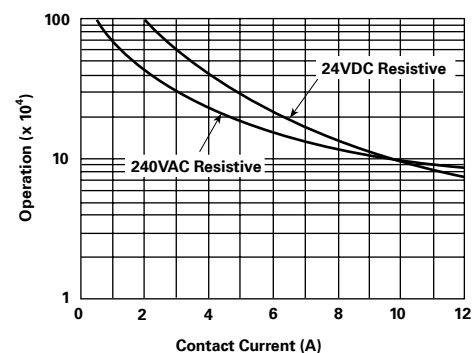
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
003	3	2.25	0.15	25	360
005	5	3.75	0.25	70	360
006	6	4.50	0.30	100	360
009	9	6.75	0.45	225	360
012	12	9.00	0.60	400	360
018	18	13.50	0.90	900	360
024	24	18.00	1.20	1600	360
048	48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

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

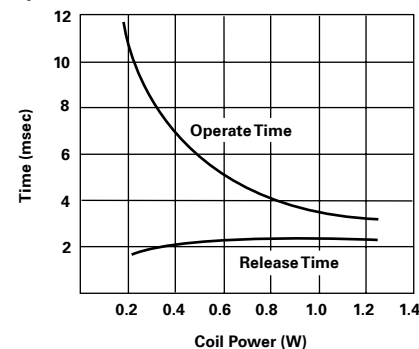
### Insulation Data

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

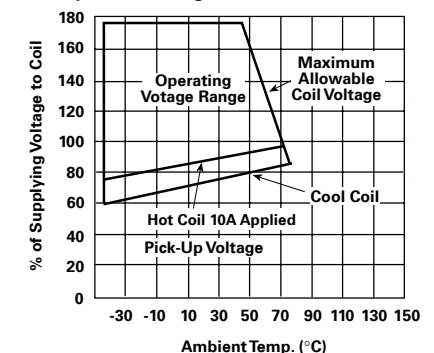
### Electrical endurance



### Operate time



### Coil operative range



## Miniature PCB Relay SRU Series (Continued)

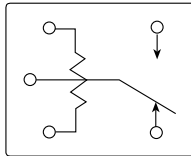
### Other Data

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

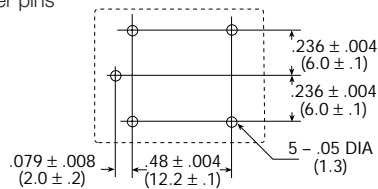
### Terminal assignment

Bottom view on solder pins

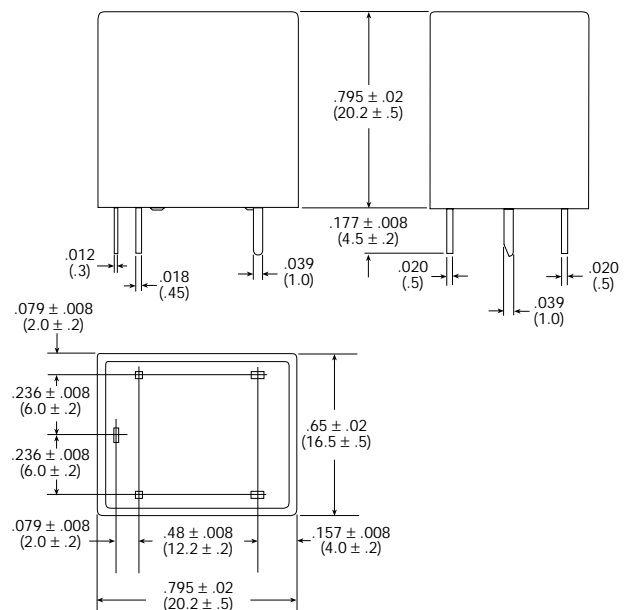


### PCB layout

Bottom view on solder pins



### Dimensions



## Miniature PCB Relay SRU Series (Continued)

Product code structure	Typical product code	SRUDH	-SS	-1	12	D	M	1	F	,000
<b>Type</b> SRUDH Miniature PCB Relay SRU series										
<b>Enclosure</b> SS Flux proof SH 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> Blank 1 form C (CO) contact M 1 form A (NO) contact										
<b>Contact material</b> 1 AgCdO 2 AgSnO <sub>2</sub> 4 AgSnOInO										
<b>UL insulation system</b> Blank UL Class A F 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			1 form A (NO)			8-1419126-4
SRUDH-SH-124D1,000		24VDC	1 form C (CO)			1440003-7
SRUDH-SH-124DM1,000			1 form A (NO)			9-1419126-0
SRUDH-SH-124DM1F,F000					Class F	1440003-8
SRUDH-SH-148D1,000		48VDC	1 form C (CO)		Class A	9-1419126-4
SRUDH-SS-105D1,000	Flux proof	5VDC				9-1419126-7
SRUDH-SS-109D1,000		9VDC				1419127-3
SRUDH-SS-112D1,000		12VDC				1-1419127-2
SRUDH-SS-112DM1,000			1 form A (NO)			1-1419127-6
SRUDH-SS-112DM2F,00000				AgSnO	Class F	2071054-5
SRUDH-SS-124D1,000		24VDC	1 form C (CO)	AgCdO	Class A	2-1419127-3
SUUH-SH-112D1,000	Wash tight	12VDC				1-1461759-0
SUUH-SH-112DM4,000			1 form A (NO)	AgSnOInO		1-1649406-0
SUUH-SH-124DM4,000		24VDC				1-1649406-1
SUUH-SS-112D1F,000	Flux proof	12VDC	1 form C (CO)	AgCdO	Class F	1649501-4
SUUH-SS-112D4,000				AgSnOInO	Class A	1649408-4
SUUH-SS-124D4,000		24VDC				1649408-5
SUUH-SS-124DM4,000			1 form A (NO)			1649406-5