

# **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 may	10/5me

Electrical endurance

Туре	Contact	Load O	perations
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>
SRUUH	AgSnOlnO	28VDC, 12A res, -30 to + 80°C,	100x1

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 LII	Class F	

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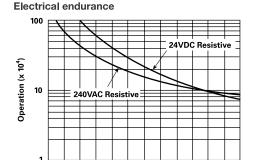
12

### Coil Data (continued)

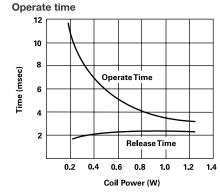
Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
003	3	2.25	0.15	25	360
005	5	3.75	0.25	70	360
006	6	4.50	0.30	100	360
009	9	6.75	0.45	225	360
012	12	9.00	0.60	400	360
018	18	13.50	0.90	900	360
024	24	18.00	1.20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

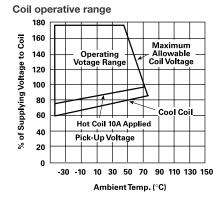
All figures are given for coil without pre-energization, at ambient temperature +23°C.

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	



Contact Current (A)







# Miniature PCB Relay SRU Series (Continued)

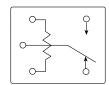
Other Data				
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content				
refer to the Pi	refer to the Product Compliance Support Center at			
www.te.com/customersupport/rohssupportcente				
Ambient temperature	-30°C to +80°C			
Category of environmental protection				
IEC 61810	RTII - 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			

Packaging/unit

RTIII: 260°C/5s tube/25 pcs., carton box/1000 pcs.

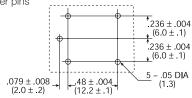
#### Terminal assignment

Bottom view on solder pins

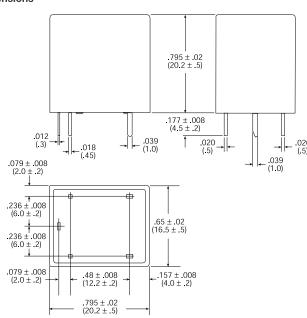


## **PCB** layout

Bottom view on solder pins

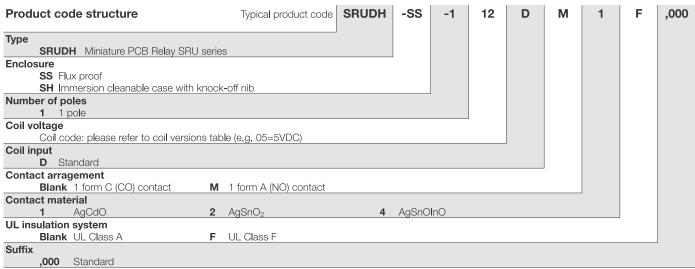


#### **Dimensions**





# Miniature PCB Relay SRU Series (Continued)



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
SRUUH-SH-112D1,000	Wash tight	12VDC				1-1461759-0
SRUUH-SH-112DM4,000	_		1 form A (NO)	AgSnOInO		1-1649406-0
SRUUH-SH-124DM4,000		24VDC				1-1649406-1
SRUUH-SS-112D1F,000	Flux proof	12VDC	1 form C (CO)	AgCdO	Class F	1649501-4
SRUUH-SS-112D4,000				AgSnOInO	Class A	1649408-4
SRUUH-SS-124D4,000		24VDC				1649408-5
SRUUH-SS-124DM4,000			1 form A (NO)			1649406-5