

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





1600

360

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 ₂ , AgSnOlnO
Min. recommended contact load	100mA at 5VDC
Frequency of operation	360 ops./h
Operate/release time max.	10/5ms

Electrical endurance

Type	Contact	Load O	perations
SRUDH		10A, 240VAC/24VDC res, -30 to +80°C	100x10 ³
SRUUH	AgCdO	12A, 240VAC/24VDC res, -30 to +80°C	100x10 ³
SRUUH	AgSnOlnO	15A, 250VAC res,	50x10 ³
SRUUH	AgSnOlnO	28VDC, 12A res, -30 to + 80°C,	100x10 ³
	U	·	00/110

Contact ratings	12A
Mechanical endurance, DC coil	5x10 ⁶ operations

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

Coil Data (continued)

24

48

024

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

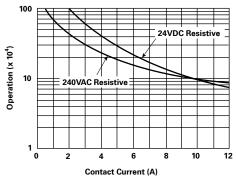
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048 36.00 2.40 4500 510 All figures are given for coil without pre-energization, at ambient temperature +23°C.

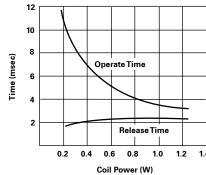
18.00

Insulation Data		
Insulation Data		
Initial dielectric strength		
between open contacts	750V _{rms}	
between contact and coil	1500V _{rms}	
Clearance/creepage		
between contact and coil	>1.6/3.2mm	

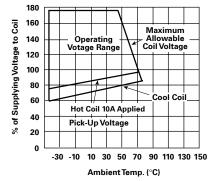




Operate time



Coil operative range



Issued 3-03 (PDF Rev. 4-03)

Part Number Calalog 12082420*UCTS* Issuestavas (PDF Rev. 4-03) 12 D M 1 General Purpose Relays **PCB Relays**

.000

OEG

OEG

OEG Catalog 130

SR

Milmature PCB Relay SRU Series (Continued) SRUDH -SS

-30°C to +80°C

RTII - flux proof

RTIII - wash tight

10g

100g

12g

Typical Part Number >

elav

48VDC

pical Part Number

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

Ambient temperature

Category of environmental protection 48 = 48VDC IEC 61810

Form A, SPST-NO Shock resistance (functional) Shock resistance (destructive)

Weight Resistance to soldering heat THT J.M.om FedelAEP 8008-2-20

Packaging/unit

RTII: 270°C/10s RTIII: 260°C/5s

tube/25 pcs., carton box/1000 pcs.

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1. Basic Series:

SRUDH = 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:

06 = 6VDC

12 = 12VDC 09 = 9VDC24 = 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:

= AgCdO

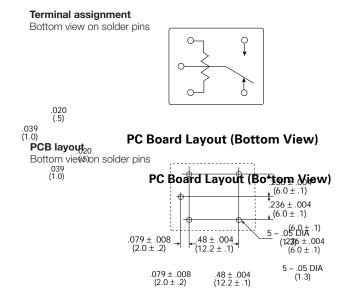
8. Suffix:

,000 = Standard model

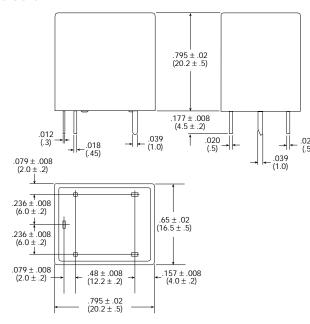
Other Suffix = Custom model

* Not suitable for immersion cleaning processes

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







ecognized for US and d layout as relay.

L Necognized for U.d board layout as relay. MAX. 15) UL Recognized for US and

.167 MAX. (4.25)

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

20C430 spring is designed to secure SRUDH relay in 27E1064 socket. 27E1064 socket is rated 10A @ 300VAC. UL Recognized for US and Canada. Designed to fit same suggested board layout as relay.

.270 MAX. (6.85)

.660 MAX. (16.75)

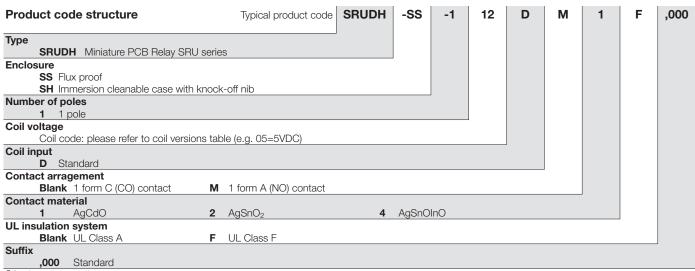
s are in inches over s) unless otherwise mensions are into 20 tylev. 0411

Specifications and availability

www.tycoelectronics.com



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)	AgSnOlnO		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				AgSnOlnO	Class A	1649408-4
SRUUH-SS-124D4,000		24VDC				1649408-5
SRUUH-SS-124DM4,000			1 form A (NO)			1649406-5

Datasheets and product data is subject to the

terms of the disclaimer and all chapters of

the 'Definitions' section, available at

http://relays.te.com/definitions