

Subminiature Intermediate Power Relay SRU



- 10A switching capabilities
- SPNO & SPCO configuration
- Subminiature, standard PC layout
- Sealed Construction
- Creepage distance: 8mm (both for CO & NO)
- Clearance distance: NO type 4.5mm, CO type 4mm

Options and ordering codes

SRU	H	-	1A	-	S	L	-	12VDC
Sensitivity								Coil Voltage
Standard								
Sensitive (SPNO)	H					L		RoHS Compliant
Contact Form								Sealing
SPNO			1A		S			Sealed
SPCO			1C					



Contact Data

Contact Arrangement	1A, 1C		
Initial Contact Resistance Max.	100mΩ (at 1A/24VDC)		
Contact Material	AgNi		
Contact Rating (Res. Load)	1A	1C	
		NO	NC
		5A/250VAC 5A/30VDC 10A/125VAC	3A/250VAC 3A/30VDC
Max. switching current	10A		3A
Max. switching power	1250VA/150W		750VA/90W
Max. switching voltage	277VAC/30VDC		
Mechanical life	1x10 ⁷ OPS		
Electrical life	1x10 ⁵ OPS		

Characteristics

Initial Insulation Resistance		1000MΩ @ 500VDC
Dielectric Strength	Between coil & contact	4000VAC 1min.
	Between open contacts	1000VAC 1min.
Operate time (at nomi. Volt)		Max. 8ms
Release time (at nomi. Volt)		Max. 5ms
Ambient temperature		-40°C to +70°C
Humidity		35% to 95%
Shock resistance	Functional	100m/s ²
	Destructive	1000m/s ²
Vibration resistance		1.6mm, 10 to 55Hz
Termination		PCB
Unit Weight		Approx. 7g
Construction		Sealed IP67

Coil

Coil power	Standard: 0.45W, Sensitive: 0.2W
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Coil Data: Standard Type

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC (at 20°C)	Coil Resistance Ω
3	2.25	0.15	3.9	20±10%
5	3.75	0.25	6.5	55±10%
6	4.50	0.30	7.8	80±10%
9	6.75	0.45	11.7	180±10%
12	9.00	0.60	15.6	320±10%
18	13.5	0.90	23.4	720±10%
24	18.0	1.20	31.2	1280±10%
48	36.0	2.40	62.4	5120±10%

Coil Data: Sensitive Type (SPNO-only)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC (at 20°C)	Coil Resistance Ω
3	2.25	0.15	4.5	45±10%
5	3.75	0.25	7.5	125±10%
6	4.50	0.30	9.0	180±10%
9	6.75	0.45	13.5	400±10%
12	9.00	0.60	18.0	720±10%
18	13.5	0.90	27.0	1600±10%
24	18.0	1.20	36.0	2800±10%

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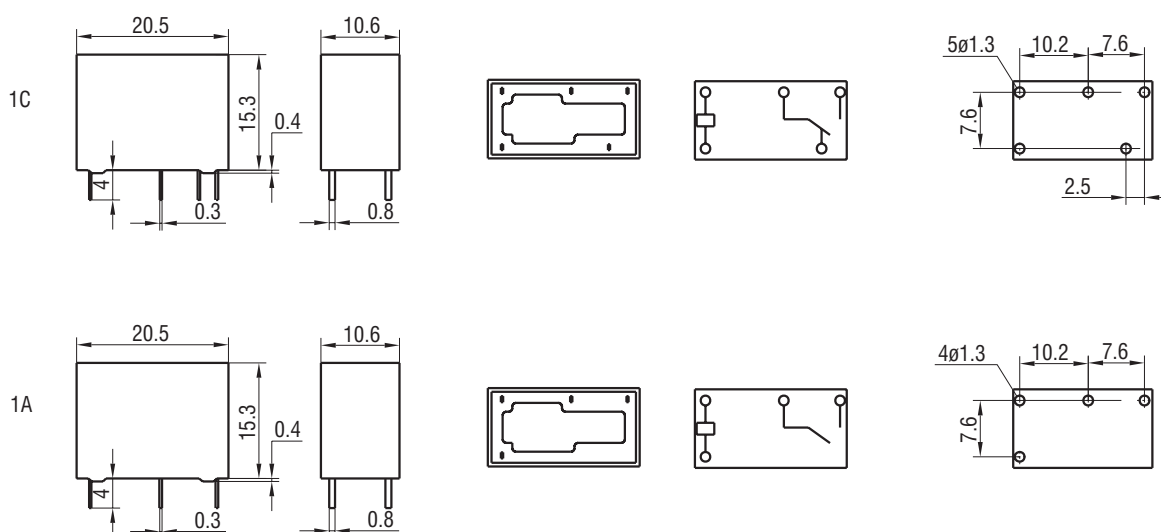


Safety Approval Ratings

UL	1 Form A:	5A 250VAC/30VDC 8A 250VAC 10A 277VAC, cos phi=0.5 1/10 HP 125VAC, 1/6 HP 250VAC
	1 Form C:	3A 250VAC 3A 30VDC
VDE	1 Form A:	5A 250VAC@70°C
	1 Form C:	5A/3A 250VAC@70°C

Outline dimensions (mm)

Wiring diagram and PC Board layout



Characteristic Curve

