

Subminiature Intermediate Power Relay

Features

- 5A switching capability
- TV-3 125VAC approved by UL standard
- 2 Form A slim configuration
- Plastic sealed type



c **Al** us

CN

(File No.:E122258)

1. COIL DATA (at 23°C)

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max Allowable Voltage (VDC)	Coil Current (mA)(±10%)	Coil Resistance (Ω)	Coil Power (mW)
5	3.75	0.25	6.50	106	47 x (1±10%)	
6	4.50	0.30	7.80	83.3	68 x (1±10%)	
9	6.75	0.45	11.7	58.9	155 x (1±10%)	
12	9.00	0.60	15.6	44.2	270 x (1±10%)	Approxi.
18	13.5	0.90	23.4	29.4	620 x (1±10%)	000
24	18.0	1.20	31.2	22.1	1080 x (1±10%)	
48	36.0	2.40	62.4	11.0	4400 x (1±10%)	

Note:

1) The data shown above are initial values.

2) The maximum allowable voltage refers to the maximum voltage which relay coil could endure in a short period of time.

2. CONTACT DATA

Contact Arrangement		2 Form A	
Contact Resistance ¹⁾		100mΩ max. (at 1A 6VDC)	
Contact Material		AgSnO ₂	
Contact Ratings (Resistive load)		5A 250VAC / 30VDC	
Max. Switching Voltage		250VAC / 30VDC	
Max. Switching Current		5A	
Max. Switching Power		1250VA / 150W	
Life Expectancy	Electrical	50,000 operations	
	Mechanical	1,000,000 operations	

Notes: 1) The data shown above are initial values.



3. CHARACTERISTICS

Insulation Resistance		1000MΩ (at 500VDC)	
Dielectric Strength	Open Contacts	1000VAC 1min	
	Coil and Contacts	4000VAC 1min	
	Contact Sets	2000VAC 1min	
Operate Time (at nominal voltage)		15ms max.	
Release Time (at nominal voltage)		10ms max.	
Temperature Range		-40°C ~ 70°C	
Shock Resistance	Functional	98m/s ²	
	Destructive	980m/s ²	
Vibration Resistance		10 ~ 55Hz, 1.5mm DA	
Humidity		5 ~ 85% RH	
Weight		Approx. 14.5g	
Outline Dimension (L x W x H)		24.4 x 12.8 x 24.8mm	

Note:

1) The data shown above are initial values.

2) Please find coil temperature curve in the characteristic curves below.

3) UL insulation system: Class A

4) For sealed type, the vent-hole cover should be excised.

4. SAFETY APPROVAL RATINGS

	5A 250VAC
UL / cUL	5A 30VDC
	TV-3 125VAC

Notes:

1) All values unspecified are at room temperature

2) Only typical loads are listed above. Other load specifications can be available upon request.

5. ORDERING INFORMATION

CN 22 - 12 ① ② ③		
① Relay Model	CN	
② Contact Arrangement	22: 2 Form A (DPST)	
③ Coil Voltage	5=5VDC, 6=6VDC, 9=9VDC, 12=12VDC, 18=18VDC, 24=24VDC, 48=48VDC	

© Texcell Co., Ltd. All rights reserved.



6. DIMENSIONS (Unit: mm)



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

2) The tolerance without indicating for PCB layout is always ±0.1mm

3) The width of the gridding is 2.54mm



7. CHARACTERISTIC CURVES



Percentage Of Nominal Coil Voltage

- 4 -