

Miniature High Power Relay

Features

- High switching capacity
- : 40A for 1 Form A and 1 Form C $\,$
- PCB coil terminals, ideal for heavy duty load
- Low coil consumption
- Small size, light weight

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)
6	4.50	0.6	6.60	155.0	36.8 x (1±10%)	
9	6.75	0.9	9.90	103.3	82.7 x (1±10%)	
12	9.00	1.2	13.2	77.50	147.1 x (1±10%)	
18	13.5	1.8	19.8	51.67	331.0 x (1±10%)	930
24	18.0	2.4	26.4	38.75	588.4 x (1±10%)	
36	27.0	3.6	39.6	25.83	1323.9 x (1±10%)	
48	36.0	4.8	52.8	19.38	2353.5 x (1±10%)	

2. CONTACT DATA

Contact Arrangement		1 Form A	1 Form B	1 Form C		
				NO	NC	
Contact Resistance		100mΩ max.				
Contact Material		AgSnO ₂				
Contact rating	Standard	30A 240VAC	20A 240VAC	30A 240VAC	20A 240VAC	
	(Nil type)	30A 28VDC	20A 28VDC	30A 28VDC	20A 28VDC	
	High Capacity	40A 240VAC	30A 240VAC	40A 240VAC	30A 240VAC	
	(H type)	40A 28VDC	30A 28VDC	40A 28VDC	30A 28VDC	
Life Expectancy	Electrical	100,000 operations (20A 250VAC / 30VDC)				
	Mechanical	10,000,000 operations				







3. CHARACTERISTICS

Insulation Resistance		100MΩ (at 500VDC)		
Dielectric Strength	Open Contacts	1500VAC 50Hz/1min, Leakage current 1mA		
	Coil and Contacts	1500VAC 50Hz/1min, Leakage current 1mA		
Temperature Range		-55 ℃ ~ 70 ℃		
Shock Resistance		10G (Sinusoidal half-wave pulse: 11ms)		
Vibration Resistance		10 ~ 55Hz, 1.5mm DA		
Atmospheric Pressure		86 ~ 106KPa		
Operate Time (at nominal voltage)		15ms max.		
Release Time (at nominal voltage)		10ms max.		
Humidity		35 ~ 80% RH		
Termination		PCB		
Weight		Approx. 33g		
Outline Dimension (L x W x H)	32.0 x 27.5 x 19.8mm		

4. ORDERING INFORMATION

<u>NCT 11</u> - <u>D12</u> <u>S</u> <u>H</u>			
1 2 3 4 5			
① Relay Model	NCT		
	11: 1 Form A (SPST-NO)		
② Contact Arrangement	1B: 1 Form B (SPST-NC)		
	1: 1 Form C (SPDT)		
	D6=6VDC, D9=9VDC, D12=12VDC, D18=18VDC, D24=24VDC,		
	D36=36VDC, D48=48VDC		
④ Construction	S: Plastic sealed type		
Contact Bating	Nil: 30A (Standard)		
	H: 40A (High Capacity)		



5. 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.



6. CHARACTERISTIC CURVES



Coil Temperature Rise

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Contact Voltage (V)

Dcloap

10

100300

1000

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