TEXE_ELL

Miniature High Power Relay

Features

- 4.5KV dielectric strength (between coil and contact)
- 25A switching capability
- Ideal for motor switch
- Heavy load up to 5000VA
- PCB & QC layouts available
- UL insulation system: Class F

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NG

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	3.50	0.5	6.00	180	27.8 x (1±10%)	
12	8.40	1.2	14.4	75.0	160 x (1±10%)	000
24	16.8	2.4	28.8	37.5	640 x (1±10%)	900
48	33.6	4.8	57.6	18.8	2560 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		1 Form A	
Contact Resistance ¹⁾		100mΩ Max. (at 1A 6VDC)	
Contact Material		AgSnO ₂	
Contact Rating		Resistive: 20A 250VAC Motor: 2HP 240VAC	
Max. Switching Voltage		250VAC	
Max. Switching Current (Resistive Load)		25A	
Max. Switching Power		6,250VA	
Life Expectancy	Electrical	100,000 operations	
	Mechanical	2,000,000 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	4500VAC 1min	
Operate Time (at nominal voltage)		20ms max.	
Release Time (at nominal voltage)		10ms max.	
Temperature Rise (at nominal voltage)		60K max.	
Shock Resistance	Functional	196m/s ²	
	Destructive	980m/s ²	
Vibration Resistance		10 ~ 55Hz, 1.5mm DA	
Humidity		5 ~ 85% RH	
Ambient temperature		-25 °C ~ 85 °C	
Termination		PCB, PCB & QC	
Weight		Approx. 23g	
Outline Dimension (L x W x H)		30.5 x 16.0 x 23.5mm	

Notes: The data shown above are initial values.

4. ORDERING INFORMATION

<u>NG 11 TMP - D12</u> ① ② ③ ④	
① Relay Model	NG
② Contact Arrangement	11: 1 Form A (SPST-NO)
3 Termination	Nil: PCB
	TMP: PCB & QC
(4) Coil Voltage	D5=5VDC, D12=12VDC, D24=24VDC, D48=48VDC

Notes: TMP type is dust protected version which cannot be washed.

5. SAFETY APPROVAL RATINGS

25A 250VAC
20A 250VAC
1HP 120VAC
2HP 240VAC

Notes:

1) All values unspecified are at room temperature.

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



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.

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7. CHARACTERISTIC CURVES



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