TEXE_ELL

Miniature High Power Relay

Features

- 40A switching capability
- 4kV dielectric strength (between coil and contacts)
- Heavy load up to 7200VA
- PCB coil terminal, ideal for duty load
- Unenclosed type

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	0.5	6.50	180	27 x (1±10%)	
6	4.50	0.6	7.80	150	40 x (1±10%)	
9	6.75	0.9	11.7	100	97 x (1±10%)	
12	9.00	1.2	15.6	75.0	155 x (1±10%)	
15	11.25	1.5	19.5	60.0	256 x (1±10%)	Approxi.
18	13.50	1.8	23.4	50.0	380 x (1±10%)	900
24	18.00	2.4	31.2	37.5	660 x (1±10%)	
48	36.00	4.8	62.4	18.8	2560 x (1±10%)	
70	52.50	7.0	91.0	12.9	5500 x (1±10%)	
110	82.50	11	143	8.18	13450 x (1±10%)	

Note:

1) When requiring pick-up voltage <80% of nominal voltage, special order allowed.

2) The data shown above are initial values at 50Hz. When requiring 60Hz, special order allowed.

3) The data shown above are initial values.

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



C FAJ US (File No.:E134581)



2. CONTACT DATA

Contact Arrangement		1 Form A	1 Form C		
		TFOIITA	NO	NC	
Contact Resistance		50mΩ max. (at 1A 24VDC)			
Contact Material		AgSnO ₂			
Max. Switching Voltage		277VAC / 28VDC			
Max. Switching Current		40A ²⁾	20A	10A	
Max. Switching Power		11080VA / 1200W	5540VA / 600W	2770VA / 300W	
Contact rating		30A 240VAC	20A 240VAC	10A 240VAC	
_		20A 28VDC	20A 28VDC	10A 28VDC	
Life Expectancy	Electrical	100,000 operations			
	Mechanical	10,000,000 operations			

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

2) Long time current -carrying under 40A condition is prohibited.

3. CHARACTERISTICS

Insulation Resistance		1000MΩ (at 500VDC)	
Dielectric Strength	Open Contacts	1500VAC 1min	
	Coil and Contacts	2500VAC / 4000VAC 1min	
Operate Time (at nominal voltage)		15ms max.	
Release Time (at nominal voltage)		10ms max.	
Temperature Range		-55 ℃ ~ 85 ℃	
Shock Resistance	Functional	98m/s ²	
	Destructive	980m/s ²	
Vibration Resistance		10 ~ 55Hz, 1.5mm DA	
Humidity		5 ~ 85% RH	
Termination		PCB	
Construction		Open type	
Weight		Approx. 36g	
Outline Dimension (L x W x H)		28.3 x 23.3 x 16.3mm	

Note: 1) For plastic sealed type, the venting-hole should be opened in test.

2) The data shown above are initial values.

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

4) UL insulation system: Class F, Class B



4. ORDERING INFORMATION

CT 11 B - D12 F ① ② ③ ④ ⑤			
① Relay Model	СТ		
2 Contact Arrangement	11: 1 Form A (SPST-NO)		
	1: 1 Form C (SPDT)		
	Nil: With Pin NO. 6, Dielectric strength Between Coil and Contact: 2500VAC		
③ Termination	B: Without Pin NO. 6, Dielectric strength Between Coil and Contact: 4000VAC		
	N: Without Pin NO. 6, Dielectric strength Between Coil and Contact: 2500VAC		
	D5=5VDC, D6=6VDC, D9=9VDC, D12=12VDC, D15=15VDC, D18=18VDC,		
④ Coil Voltage	D24=24VDC, D48=48VDC, D70=70VDC, D110=110VDC		
Inculation Standard	Nil: Class B		
5 Insulation Standard	F: Class F		

5. SAFETY APPROVAL RATINGS

UL/cUL	1 Form A		30A 277VAC 40A 277VAC 2HP 250VAC 1HP 125VAC
	1 Form C	NO	30A 277VAC 2HP 250VAC 1HP 125VAC
		NC	20A 277VAC 1/2HP 250VAC 1/4HP 125VAC

Notes:

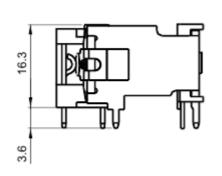
1) All values unspecified are at room temperature.

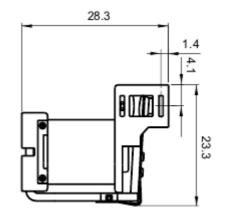
2) Only typical loads are listed above. Other load specifications can be available upon request.



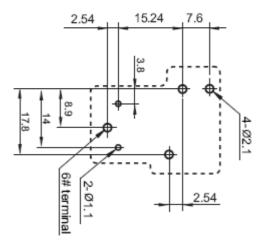
6. DIMENSIONS (Unit: mm)

Outline Dimensions

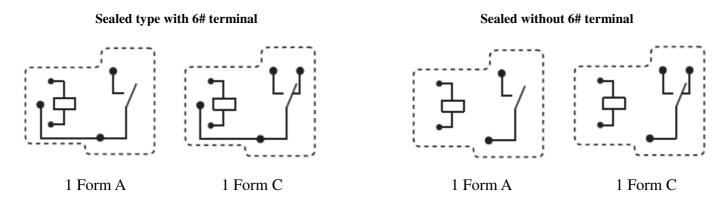




PCB Layout (Bottom View)



Wiring Diagram (Bottom View)



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.

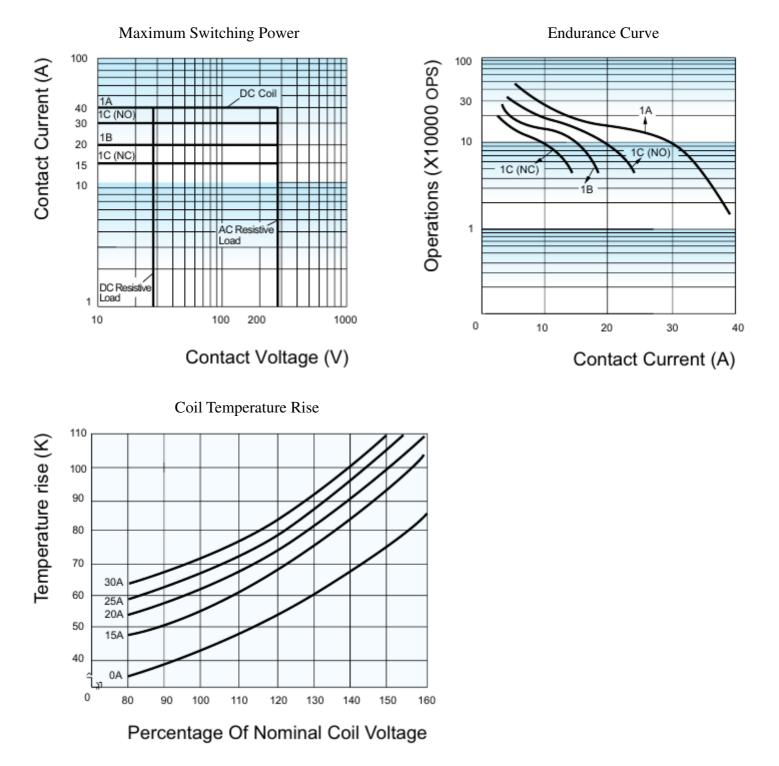
2) The tolerance without indicating for PCB layout is always ±0.1mm

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6. CHARACTERISTIC CURVES



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