## JT84F

# SUBMINIATURE HIGH POWER RELAY





#### Features

- 16A switching capability
- 2.5kV dielectric strength(between coil and contacts)
- Panel mount types available
- Environmental friendly product
- (RoHS compliant)
- Outline Dimensions:(47.0 x 32.0 x 28.5)mm

### **COIL DATA**

**at** 23℃

Nominal Voltage VDC	Pick-up Voltage VDC max.	Dorp-out Voltage VDC min.	Max. Voltage VDC*	Coil Resistance $\Omega$
6	4.50	0.6	6.6	17.5 x (1±10%)
9	6.75	0.9	9.9	40 x (1±10%)
12	9.00	1.2	13.2	70 x (1±10%)
24	18.0	2.4	26.4	280 x (1±10%)
48	36.0	4.8	52.8	1120 x (1±10%)
120	90.0	12.0	132	7000 x (1±10%)
Nominal Voltage VDC	Pick-up Voltage VDC max.	Dorp-out Voltage VDC min.	Max. Voltage VDC*	Coil Resistance $\Omega$
6	5.1	1.2	6.6	4.8 x (1±10%)
12	10.2	2.4	13.2	19 x (1±10%)
24	20.4	4.8	26.4	90 x (1±10%)
48	40.6	9.6	52.8	300 x (1±10%)
40				
120	102	24	132	2000 x (1±10%)
	102 204	24 48	132 264	2000 x (1±10%) 7200 x (1±10%)

Notes: 1)\*Maximum Voltage refers to the maximum voltage which relay coil could endure in a short period of time.

### SAFETY APPROVAL RATINGS

UL/CUL (AC type)	JT84F-1	8FLA,25LRA 250VAC 16A 250VAC 8A 250VAC
	JT84F-4	8FLA,25LRA 250VAC 16A 250VAC 8A 250VAC
	JT84F-7	8FLA,25LRA 250VAC 8A 250VAC

Notes: 1)All values unspecified are at room temperature. 2)Only typical loads are listed above.Other load specificationgs can be available upon request.

# CONTACT DATA

Contact arrangement	1A,1B,1C		
Contact resistance	50mΩ max.(at 1A 24VDC		
Contact material	AgCe		
	1A,1C	1B	
Contact rating (Res.load)	16A 250VAC Resistive load	8A 250VAC General load	
Max.switching current	16A		
Max.switching power	4000VAC		
Max.switching voltage	250VAC		
Mechanical endurance	e 1 x 10 <sup>6</sup> C		
Electrical endurance	7 type:3 x 10 <sup>4</sup> OPS(8A 250VAC, General use,at 40°C,1s on 9s off) 1,4 type:1 x 10 <sup>5</sup> OPS(16A 250VAC, Resistive load,at 65°C,1s on 9s off)		

#### CHARACTERISTICS

Insulation resistance		500M Ω (at 500VDC)		
Dielectirc	Between coil&contacts	2500VAC 1mir		
strength	Between open contacts	1000VAC 1min		
Operate time(at nomi.volt.)		DC type:25ms max.		
Release time(at nomi.volt.)		DC type:25ms max		
Temperature rise(at nomi.volt.)		90K max.		
Shock resistance(Functional)		147m/s² 11ms		
Vibration resistance		10Hz to 55Hz 2.54mm DA		
Humidity		5% to 85% RH		
Ambient tenperature		-40℃ to 65℃		
Termination		QC		
Unit weight		Approx.75g		
Construction		Dust protected		

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

COIL	
Coil power	DC type:2.1W; AC type:3.5VA



ORDERING INFORMATION					
	JT84F/	-1	Α	24	(XXX)
Туре					· /
Contact arrangement	<b>1</b> :1FormC <b>4</b> :	1 Form A 7:1 Form B	3		
Contact arrangement	D:DC A:/	AC			
Coil voltage	AC:6VACto2	277VAC <b>DC:</b> 6VI	) C to	120VDC	
Special code <sup>3)</sup>	XXX:Custome	er special requireme	ent N	il:Standra	d

Notes: 1) The customer special requirement express as special code after evaluating by JINTIAN.

#### OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

77 66.7 47 54.8 O ω 🚱 28.5 22 9.5 Φ ф ФФ 46 39. ŝ 2-Ø4.3 23.7 4-Ø3.8 (Top view) Wiring Diagram Terminals type (Top view) 1 Form A 1 Form B 1 Form C Ø1.9 X 0.15 6.4.0.05 0.8\*0.0 3

**Outline Dimensions** 

Remark:1)\*The additional tin top is max.1mm.

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

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Disclaimer

The specification is for reference only.See to "Terminology and Guidelines" for more information.Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application.Thus the user should be in a right position to choose the suitable product for their own application.If there is any query, please contact JINTIAN for the technical service. However, it is the user's responsibility to determine which product should be used only.

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