

JT84F

SUBMINIATURE HIGH POWER RELAY

CULUS
File No:E319069(AC type only)



Features

- 16A switching capability
- Various of mounting position
- Rotating armature structure
- 1 Form A, 1 Form B and 1 Form C configurations
- Dust protected type
- Environmental friendly product(RoHS compliant)
- Outline Dimensions:(47.0 x 32.0 x 28.5)mm

CONTACT DATA

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

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

CHARACTERISTICS

Insulation resistance	500MΩ(at 500VDC)	
Dielectirc strength	Between coil&contacts	2500VAC 1min
	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)	98m/s ² 11ms	
Vibration resistance	10Hz to 55Hz 2.54mm DA	
Humidity	5% to 85% RH	
Ambient temperature	-40°C to 65°C	
Termination	QC	
Unit weight	Approx. 75g	
Construction	Dust protected	

Notes: 1)The data shown above are initial values.
2) UL insulation system: Class A.

COIL

Coil power	DC type: Approx. 2.1W AC type: Approx. 3.5VA
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COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC ¹⁾	Drop-out Voltage VDC ¹⁾	Max. Voltage VDC* ²⁾	Coil Resistance Ω
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 VAC	Pick-up Voltage VAC ¹⁾	Drop-out Voltage VAC ¹⁾	Max. Voltage VAC* ²⁾	Coil Resistance Ω
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%)
120	≤102	≥24	132	2000 x (1±10%)
240	≤204	≥48	264	7200 x (1±10%)
277	≤235	≥55.4	304.7	11000 x (1±10%)

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

2)*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 at 40°C Resistive 16A 250VAC at 65°C Gen Use 8A 250VAC at 40°C
	JT84F-4	8FLA,25LRA 250VAC at 40°C Resistive 16A 250VAC at 65°C Gen Use 8A 250VAC at 40°C
	JT84F-7	8FLA,25LRA 250VAC at 40°C Gen Use 8A 250VAC at 40°C

Notes: 1)All values unspecified are at room temperature.

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



JINTIAN RELAY

ISO9001、ISO14001、OHSAS18001 CERTIFIED

ORDERING INFORMATION

JT84F

-1

A

24

(XXX)

Type

Contact arrangement 1: 1 Form C 4: 1 Form A 7: 1 Form B

Contact arrangement A: AC D: DC

Coil voltage AC: 6VAC to 277VAC DC: 6VDC to 120VDC(Without UL)

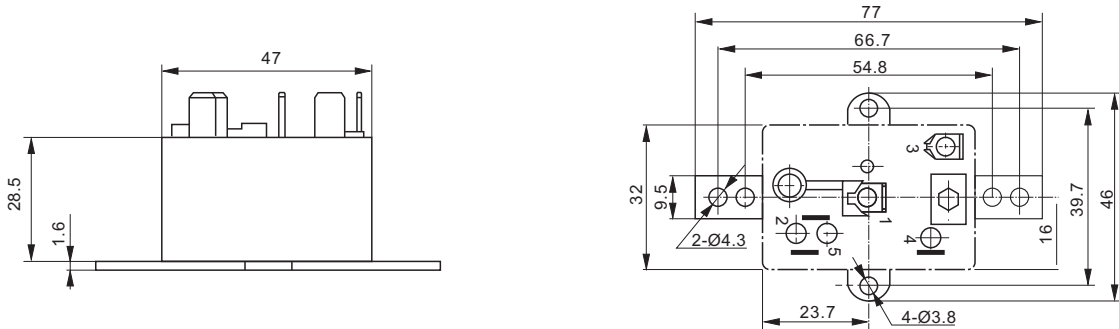
Special code¹⁾ XXX: Customer special requirement Nil: Standrad

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

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

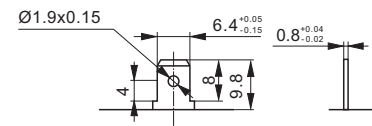
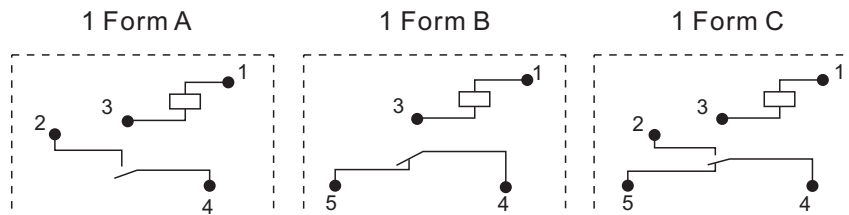
Unit: mm

Outline Dimensions



Wiring Diagram (Top view)

Terminals type



Remark: 1) The pin dimension of the product outline drawing is the size before tinning (it will become larger after tinning), and the mounting hole size is the recommended design size of the PCB board hole. The specific PCB board hole design size can be mapped and adjusted according to the actual product.

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

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.