JT94F SUBMINIATURE HIGH POWER RELAY

c UL us

File No:E319069

Features

- 25A switching capability
- 2.5kV dielectric strength
- (between coil and contacts)
- Panel mount types available
- UL insulation system:Class F
- Environmental friendly product (RoHS compliant)
- Outline Dimensions:(47.0 x 32.0 x 28.5)mm

CONTACT DATA

Contact arrangement	1A,1B,1C,1A+1B
Contact resistance	200mΩ max.(at 1A 24VDC)
Contact material	$AgSnO_2$,AgCe,AgCdO
Contact rating (Res.load)	18A 277VAC
Max.switching current	18A
Max.switching power	4986VA
Max.switching voltage	277VAC
Mechanical endurance	1 x 10^6 OPS
Electrical endurance	5 x 10^4 OPS(25A 277VAC,Resistive load, $AgSnO_2$,AgCdO,at 65℃,1s on 9s off) 3 x 10^4 OPS(3A 277VAC,General load, AgCe,at 65℃,1s on 9s off)

CHARACTERISTICS

Insulation resistance		500MΩ(at 500VDC)
Dielectirc strength	Between coil&contacts	2000VAC 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/s²
Vibration resistance		10Hz to 55Hz 0.5mm DA
Humidity		5% to 85% RH
Ambient tenperature		-40℃ to 65℃
Termination		QC
Unit weight		Approx.85g
Construction		Dust protected

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

COIL

Coil power	DC type:2.4W; AC type:4.0VA

COIL DATA

at 23℃

Nominal Voltage VDC	Pick-up Voltage VDC max.	Dorp-out Voltage VDC min.	Max. Voltage VDC*	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 VDC	Pick-up Voltage VDC max.	Dorp-out Voltage VDC min.	Max. Voltage VDC*	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	77 x (1±10%)
48	40.6	9.6	52.8	280 x (1±10%)
120	102	24	132	2000 x (1±10%)
240	204	48	264	7250 x (1±10%)
277	235	55.4	304.7	11000 x (1 10%)

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

ORDERING INFORMATION

JT94F / 10 - A 24 E -1 (XXX)

Type	
Contact arrangement	**10:**1 Form A **11:**1 Form B **12:**1 Form C **13:**1 Form A+1 Form B
Coil voltage from	**A**:AC **D**:DC
Coil voltagr	**AC**:6VAC to 277VAC **DC:**6VDC to 120VDC(No UL approved)
Contact material	**E**:AgCe T:$AgSnO_2$ **Nil**:AgCdO
Mounting	**1**:Flang,Mounting Distance 54.8mm.diameter Φ3.8mm **2**:Flang,Mounting Distance 66.7mm.diameter Φ4.8mm **Nil**:Metal Bracket
Special code[1)]	**XXX**:Customer special requirement **Nil:**Standrad

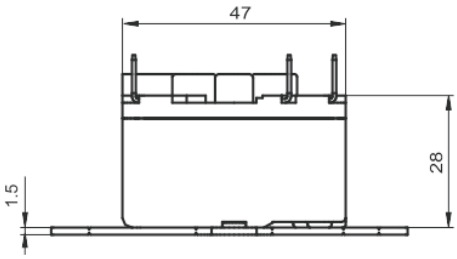
Notes: 1) The customer special requirement express as special code after evaluating by JINTIAN.

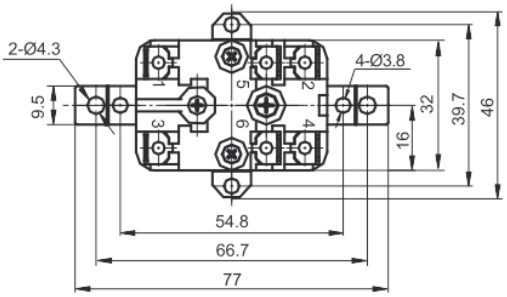
OUTLINE DIMENSIONS,WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions

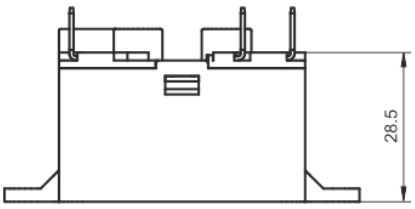
Metal Bracket

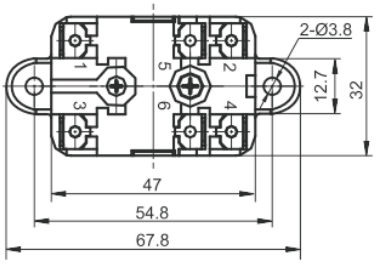




(Top view)

Flang, Mounting Distance 54.8mm



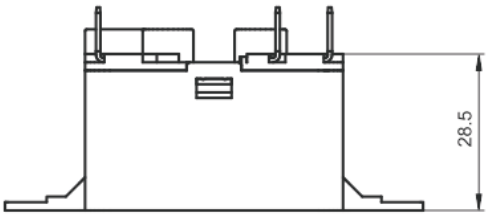


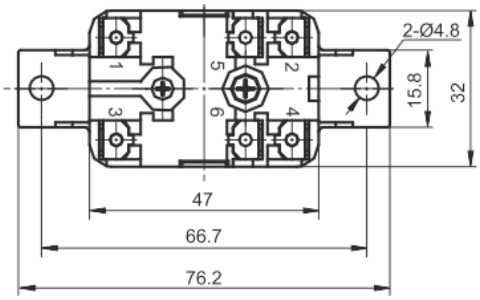
(Top view)

OUTLINE DIMENSIONS,WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

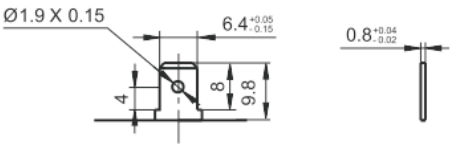
Flang, Mounting Distance 66.7mm





(Top view)

Terminals type



Remark: 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.

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.