JT32F

SUBMINIATURE HIGH POWER RELAY





(CQC

File No:13002098917



Features

- 10A switching capability
- 1From A and 1From C configurations
- Subminiature, standard PCB layout
- Plastic sealed and flux profed types available
- UL insulation system:Class F
- product in accordance to IEC 60335-1 avaolable
- Environmental friendly product (RoHS compliant)
- Outline Dimensions:(18.4 x 10.2 x 15.3)mm

CONTACT DATA

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Contact arrangement		1A,1C					
Contact resistance		100m Ω max.(at 1A 6VDC)					
Contact material		AgNi,AgCdO,AgSnO ₂					
		1A		1C			
		'	A	NO	NC		
	H type:		HL type:				
Contact rating	5A 250V	AC	3A 250VAC	3A 250VAC	3A 250VAC		
Contactrating	13A 30 V D		3A 30VDC	3A 30VDC	3A 30VDC		
(Res.load)	10A 125VAC		5A 125VAC				
Max.switching current	10A		5A	3A			
Max.switching power	1250VA 150W		750VA/90W				
Max.switching	y voltage			250VAC/30VDC			
Mechanical endurance			5 x 10 ⁶ OPS				
Electrical endurance		H type:1 x 10 ⁵ OPS(5A 250VAC, Resistive load,Room temp,1s on 1s off) HL type:1 x 10 ⁵ OPS(3A 250VAC, Resistive load,Room temp,1s on 1s off) Z type:1 x 10 ⁵ OPS(NO:3A/NC:3A 250VAC,Resistive load,Room temp, 1s on 9s off)					

CHARACTERISTICS

Insulation resistance			1000M Ω (at 500VDC)	
Dielectirc	Between coil&contacts		2500VAC 1mi	
strength	Between open contacts		1000VAC 1min	
Operate time(at nomi.volt.)		8ms max.		
Release tir	ne(at no	omi.volt.)	5ms max.	
Shock resistance		Functional	98m/s²	
		Destructive	980m/s²	
Vibration resistance		ce	10Hz to 55Hz 1.5mm DA	
Humidity			5% to 85% RH	
Ambient tenperature		re	-40℃ to 85℃	
Termination			PCB	
Unit weight			Approx.6g	
Construction			Plastic sealed,	
			Flux proofed	

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

COIL

Coil power	Standard:Approx.450mW;
	Sensitive:Approx.200mW

COIL DATA

at 23℃

Standard type

Nominal Voltage VDC	Pick-up Voltage VDC max.	Dorp-out Voltage VDC min.	Max. Voltage VDC*	Coil Resistance Ω
3	2.25	0.15	3.9	20 x (1±10%)
5	3.75	0.25	6.5	55 x (1±10%)
6	4.50	0.30	7.8	80 x (1±10%)
9	6.75	0.45	11.7	180 x (1±10%)
12	9.00	0.60	15.6	320 x (1±10%)
18	13.5	0.90	23.4	720 x (1±10%)
24	18.0	1.20	31.2	1280 x (1±10%)
48	36.0	2.40	62.4	5120 x (1±10%)

Sensitive type (Only for 1 From A)

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Nominal Voltage VDC	Pick-up Voltage VDC max.	Dorp-out Voltage VDC min.	Max. Voltage VDC*	Coil Resistance Ω
3	2.25	0.15	4.5	45 x (1±10%)
5	3.75	0.25	7.5	125 x (1±10%)
6	4.50	0.30	9.0	180 x (1±10%)
9	6.75	0.45	13.5	400 x (1±10%)
12	9.00	0.60	18.0	720 x (1±10%)
18	13.5	0.90	27.0	1600 x (1±10%)
24	18.0	1.20	36.0	2800 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	AgCdo AgNi AgSnO₂	1 Form A	H type:5A 250VAC/30VDC at 70 10A 125VDC at 70 HL type:3A 250VAC/30VDC at 70 HL type:5A 125VAC at 70	C C
		1 Form C	3A 250VDC/30VDC at 70	С

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

2)Only typical loads are listed above Other load specificationgs can be avaliable upon request.

ORDERING INFORMATION

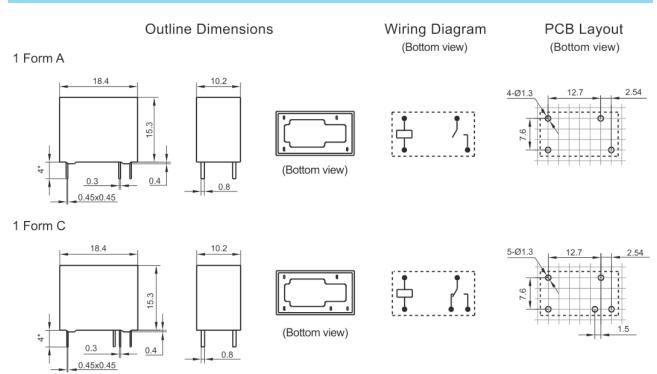
JT32F / 012 **Type** 3,5,6,9,12,18,24,48VDC Coil voltage **Contact arrangement** H:1Form A Z:1Form C Construction 1)2) S:Plastic sealed Nil:Flux proofed L:Sensitive(Only for From A) Nil:Standard **Contact material Q**:High capacity(Only for Sensitive) NiI:Standard **Contact material** 3:AgNi T:AgSnO₂ Nil:AgCdO **Contact material** Special code³⁾ **XXX**:Customer special requirement Nil:Standrad

Notes:1) Under the ambience with dangerous gas like H₂S,SO₂ or NO₂, plastic sealed type is recommended; Please test the relay in real applications. If the ambience allows, flux proofed type is preferentially recommended.

- 2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.
- 3) The customer special requirement express as special code after evaluating by JINTIAN.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

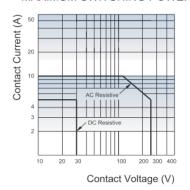


Remark:1)*The additional tin top is max.1mm.

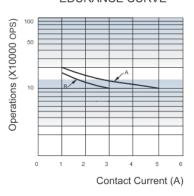
- 2)In case of no tolerance shown in outline dimension:outline dimension ≤1mm,tolerance should be ±0.2mm;outline dimension>1mm and≤5mm,tolerance should be±0.3mm;outline dimension>5mm,tolerance should be±0.4mm.
- 3) The tolerance without indicating for PCB layout is always ± 0.1 mm.

CHARACTERISTIC CURVES

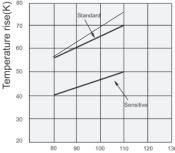
MAXIMUM SWITCHING POWER



EDURANCE CURVE



40



COIL TEMPERATURE RISE

Percentage Of Nominal Coil Voltage

1.Curve A: H type Curve B: HL type, Z type 2.**Test conditions:**

H type: Resistive load, 5A 250VAC, Room temp., 1s on 1s off HL type: Resistive load, 3A 250VAC, Room temp., 1s on 1s off Z type: NO/NC, Resistive load, 3A 250VAC, Room temp., 1 s on 9 s off

Test conditions:

Standard: 5A at 85 ℃ Sensitive: 3A at 85 ℃ Mounting distance: 5mm

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.