JT32F

SUBMINIATURE HIGH POWER RELAY



CONTACT DATA

Contact arrangement	1A,1C					
Contact resistance ¹⁾	100mΩ max.(at 1A 6VDC)					
Contact material		A	gNi,AgCdC	,AgSnO ₂		
	1A					
	1/	A	NO	NC		
Contact rating (Res.load)	H type: 5A 250VAC 5A 30VDC 10A 125VAC	HL type: 3A 250VAC 3A 30VDC 5A 125VAC	5A 250VAC ²¹ 5A 30VDC ²¹ 10A 125VAC ²¹	3A 250VAC 3A 30VDC		
Max.switching current	10A	5A	34			
Max.switching power	1250VA/150W 750VA/90V					
Max.switching voltage	250VAC/30VDC					
Mechanical endurance	1 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/NC:3A 250VAC,Resistive load,Room temp, 1.5s on 1.5s off)					

Notes: 1)The data shown above are intial values. 2)Applicable when NC is not energized with load.

CHARACTERISTICS

Insulation resistance			1000MΩ(at 500VDC)		
Dielectirc Betw		en coil&contacts	2500VAC 1min		
strength	Betwee	en open contacts	1000VAC 1min		
Operate tim	ne(at nor	mi.volt.)	8ms max		
Release tim	ne(at noi	mi.volt.)	5ms max.		
Shock resistance		Functional	98m/s		
		Destructive	980m/s ²		
Vibration resistance		10Hz to 55Hz 1.5mm DA			
Humidity			5% to 85% RH		
Ambient tenperature			-40°C to 85°C -40°C to 105°C(CQC)		
Termination		РСВ			
Unit weight			Approx. 6g		
Construction		Plastic sealed, Flux proofed			
		h			

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



Features

- 10A switching capability
- 1Form A and 1Form C configurations
- Standard PCB layout
- Plastic sealed and flux proofed types available
- Product in accordance to IEC 60335-1 available
- Environmental friendly product (RoHS compliant)
 Outling Dimensions: (19, 4 × 10, 2 × 15, 2)mm
- Outline Dimensions:(18.4 x 10.2 x 15.3)mm

COIL

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

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		
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)

		-	-	
Nominal Voltage VDC	Pick-up Voltage VDC ¹⁾	Drop-out Voltage VDC ¹⁾	Max. Voltage VDC* ²⁾	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) The data shown above are intial 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	AgCdO AgNi AgSnO₂	1 Form A	H type:5A 250VAC /30VDC 85° 10A 125VDC 85° HL type:3A 250VAC /30VDC 85° 5A 125VAC 85° LQ type:10A 250VAC 85° 8A 250VAC 85°
		1 Form C	3A 250VAC/30VDC 85°
VDE	AgCdO AgSnO₂	1 Form A	5A 250VAC/30VDC 85°
TUV	AgCdo AgNi AgSnO₂	1 Form A	H type:5A 250VAC /30VDC 85° HL type:3A 250VAC /30VDC 85° LQ type:10A 250VAC/30VDC 85° 8A 250VAC/30VDC 85°
		1 Form C	3A 250VAC/30VDC 85°
CQC	AgCdo AgNi AgSnO₂	1 Form A	H type:5A 277VAC/250VAC/125VAC/30VDC 105°

Notes: 1) All values unspecified are at room temperature

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

ORDERING INFORMATION									
	JT32F	012	-H	S	L	Q	3	(XXX)	
Туре									
Coil voltage	3,5,6,9,12,7	3,5,6,9,12,18,24,48VDC							
Contact arrangem	H:1Form A	Z :1 Form	n C						
Construction ¹⁾²⁾	S:Plastic sea	S:Plastic sealed Nil:Flux proofed							
Contact material	L:Sensitive(C	L:Sensitive(Only for From A) Nil:Standard							
Contact material	Q :High capac	Q:High capacity(Only for Sensitive) Nil:Standard							
Contact material ³⁷	3:AgNi	T:AgSnO ₂	Nil:A	gCdO					
Special code ⁴⁾ XXX :Customer special requirement Nil :Standrad									

Notes:1) We recommend flux proofed types for a clean environment(free from contaminations like H₂S, SO₂, NO₂, dust, etc.).

We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂,NO₂,dust,etc.).

2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.

3) AgSnO₂ contact can be represented as "(T)" after periodic code.

4) The customer special requirement express as special code after evaluating by JINTIAN. e.g. (335) stands for product in accordance to IEC 60335-1(GWT).

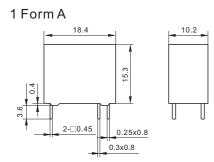
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

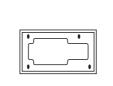
Outline Dimensions

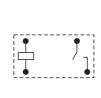
Wiring Diagram (Bottom view)

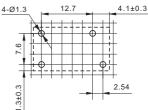
PCB Layout (Bottom view)

Unit: mm

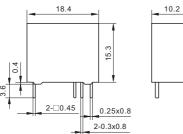


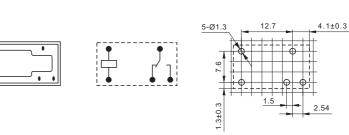






1 Form C





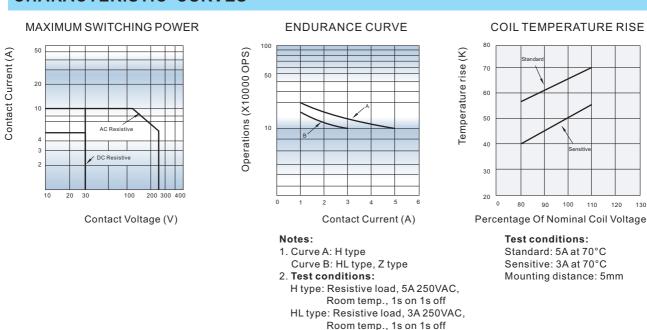
Remark:1) The pin dimension of the product outline drawing is the size before tinning (it will become larger after tinning), and the mounting hole size is the recommended design size of the PCB board hole. The specific PCB board hole design size can be mapped and adjusted according to the actual producet.

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 \pm 0.1mm.

4) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES



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.

Z type: NO/NC, Resistive, 3A 250VAC, Room temp., 1.5s on 1.5s off

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