JT32F

SUBMINIATURE HIGH POWER RELAY





File No:R 50265552



File No:CQC13002098917





Features

- 10A switching capability
- 1Form A and 1Form C configurations
- Standard PCB layout

COIL

- Plastic sealed and flux proofed types available
- Product in accordance to IEC 60335-1 available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions:(18.4 x 10.2 x 15.3)mm

CONTACT DATA

Contact arrangement	1A,		1A,1C	
Contact resistance ¹⁾	100mΩ max.(at 1A 6VDC)			
Contact material	AgNi,AgCdO,AgSnO ₂			
	1A			1C
			NO	NC
Contact rating (Res.load)	H type: 5A 250VAC 5A 30VDC 10A 125VAC	HL type: 3A 250VAC 3A 30VDC 5A 125VAC	5A 250VAC ² 5A 30VDC ²⁾ 10A 125VAC ²⁾	37 30/00
Max.switching current	10A	5A		3A
Max.switching power	1250VA/150W 750VA/5		0VA/90W	
Max.switching voltage	250VAC/30VDC			
Mechanical endurance	1 x 10 ⁶ op			x 10° 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 strength	Between coil&contacts		2500VAC 1min		
	Between open contacts		1000VAC 1mir		
Operate time(at nomi.volt.)			8ms max.		
Release time(at nomi.volt.)			5ms max.		
		Functional	98m/s ²		
Shock resistance		Destructive	980m/s²		
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			PCB		
Unit weight			Approx. 6g		
Construction			Plastic sealed, Flux proofed		

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

JINTIAN RELAY

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

COIL DATA

at 23°C

Standard type

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±1		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 4		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	5 13.5 400 x (1±		
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.

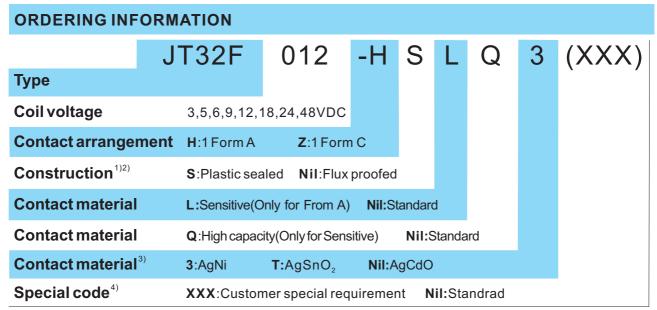


ISO9001、ISO14001、OHSAS18001 CERTIFIED

SAFETY APPROVAL RATINGS

UL/CUL	AgCdO UL/CUL AgNi AgSnO ₂	1 Form A	H type:5A 250VAC/30VDC 85°C 10A 125VDC 85°C HL type:3A 250VAC/30VDC 85°C 5A 125VAC 85°C LQ type:10A 250VAC 85°C 8A 250VAC 85°C
	1 Form C	3A 250VAC/30VDC 85°C	
VDE	AgCdO AgSnO ₂	1 Form A	5A 250VAC/30VDC 85°C
AgCdo TUV AgNi AgSnO₂	1 Form A	H type:5A 250VAC/30VDC 85°C HL type:3A 250VAC/30VDC 85°C LQ type:10A 250VAC/30VDC 85°C 8A 250VAC/30VDC 85°C	
	1 Form C	3A 250VAC/30VDC 85°C	
CQC	AgCdo AgNi AgSnO ₂	1 Form A	H type:5A 277VAC/250VAC/125VAC/30VDC 105°C

Notes: 1) All values unspecified are at room temperature



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

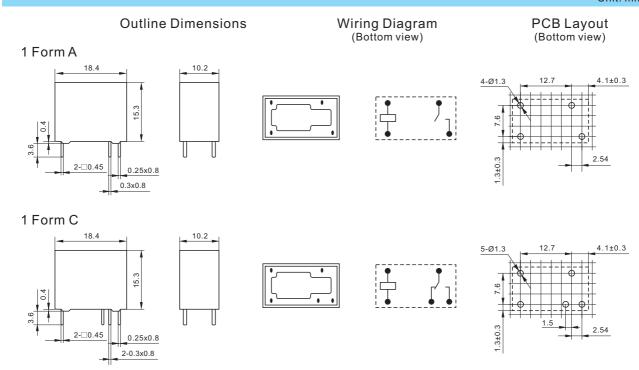
We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂,NO₂,dust,etc.).

- 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).

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

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

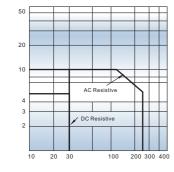


Remark: 1) The pin dimension of the product outline drawing is the size before tinning (it will become larger after tinning), and the mounting hole size is the recommended design size of the PCB board hole. The specific PCB board hole design size can be mapped and adjusted according to the actual producet.

- 2) In case of no tolerance shown in outline dimension:outline dimension ≤1mm,tolerance should be ±0.2mm;outline dimension> 1 mm and $\leq 5 \text{mm}$, tolerance should be $\pm 0.3 \text{mm}$; outline dimension > 5 mm, tolerance should be $\pm 0.4 \text{mm}$.
- 3) The tolerance without indicating for PCB layout is always ± 0.1 mm.
- 4) The width of the gridding is 2.54mm.

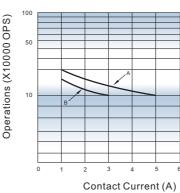
CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER

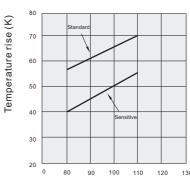


Contact Voltage (V)

ENDURANCE CURVE



COIL TEMPERATURE RISE



Percentage Of Nominal Coil Voltage

Notes:

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, 3A 250VAC,

Room temp., 1.5s on 1.5s off

Test conditions:

Standard: 5A at 70°C Sensitive: 3A at 70°C Mounting distance: 5mm

Disclaimer

Contact Current (A)

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.