

JT32F-G

SUBMINIATURE HIGH POWER RELAY

UL US
File No:E319069



File No:R 50265552



File No:CQC13002098917



File No:40049146



Features

- 10A switching capability
- 1Form A configuration
- Subminiature, standard PCB layout
- Plastic sealed and flux proofed types
- Product in accordance to IEC 60335-1 available
- UL insulation system:Class F
- Outline Dimensions:(18.4 x 10.2 x 15.3)mm

CONTACT DATA

Contact arrangement	1A
Contact resistance ¹⁾	100mΩ max.(at 1A 6VDC)
Contact material	AgSnO ₂
Contact rating (Res.load)	10A 250VAC 10A 30VDC
Max.switching voltage	277VAC/30VDC
Max.switching current	10A
Max.switching power	2770VA/300W
Mechanical endurance	1 x 10 ⁶ ops
Electrical endurance	1 x 10 ⁵ ops (10A 250VAC,Resistive load, Room temp.,1s on 9s off)

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

CHARACTERISTICS

Insulation resistance	1000MΩ(at 500VDC)	
Dielectric strength	Between coil&contacts	2500VAC 1min
	Between open contacts	1000VAC 1min
Operate time(at nomi.volt.)	8ms max.	
Release time(at nomi.volt.)	5ms max.	
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10Hz to 55Hz 1.5mm DA	
Humidity	5% to 85% RH	
Ambient temperature	-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 initial values.

COIL

Coil power	Approx. 450mW
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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
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%)

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	10A 277VAC/250VAC/30VDC at 85°C 10A 277VAC/250VAC at 40°C TV-5 120VAC at 40°C
TUV	10A 250VAC/30VDC at 85°C
VDE	10A 250VAC/30VDC at 85°C
CQC	10A 277VAC/250VAC/125VAC/30VDC at 105°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

JT32F-G 012 - H S T F (XXX)

Type

Coil voltage 3, 5, 6, 9, 12, 18, 24, 48VDC

Contact arrangement H: 1 Form A

Construction¹⁾²⁾ S: Plastic sealed Nil: Flux proofed

Contact material T: AgSnO₂

Insulation standard F: Class F

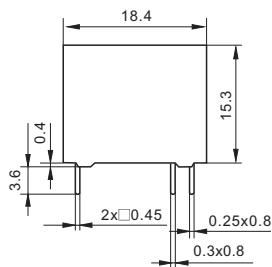
Special code³⁾ XXX: Customer special requirement Nil: Standrad

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

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

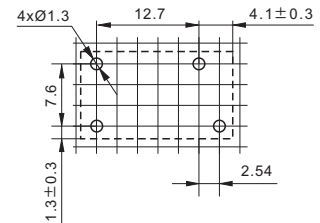
Outline Dimensions



Wiring Diagram
(Bottom view)



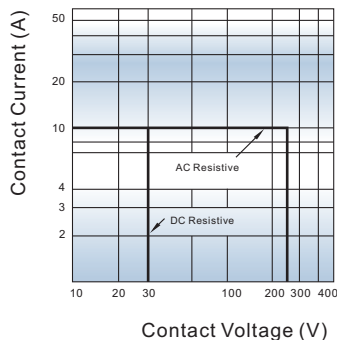
PCB Layout
(Bottom view)



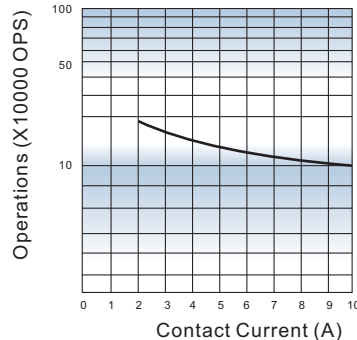
- Remark:** 1) The pin dimension of the product outline drawing is the size before tinning (it will become larger after tinning), and the mounting hole size is the recommended design size of the PCB board hole. The specific PCB board hole design size can be mapped and adjusted according to the actual product.
 2) In case of no tolerance shown in outline dimension: outline dimension ≤ 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 ±0.1mm.
 4) The width of the gridding is 2.54mm.

CHARACTERISTIC CURVES

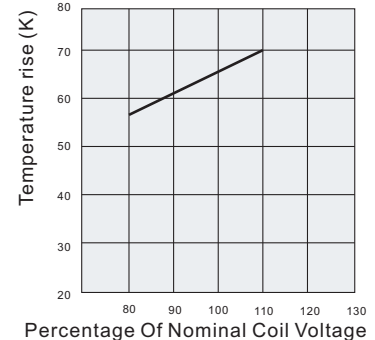
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



Test conditions:
Resistive load, 10A 250VAC,
Room temp., 1s on 9s off

Test conditions: 10A 250VAC
Mounting distance: 10mm

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.