



Features

- 35A switching capability
- Applicable to solar photovoltaic inverter
- 3.6mm contact gap
- Low coil holding voltage contribute to saving energy of equipment
- UL insulation system: Class F available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (36.0 x 30.0 x 40.0)mm

CONTACT DATA

Contact arrangement	2A
Contact resistance ¹⁾	10mΩ max.(at 20A 6VDC)
Contact material	AgSnO ₂
Contact rating (Res.load)	35A 277VAC
Max.switching voltage	277VAC
Max.switching current	35A
Max.switching power	9695VA
Mechanical endurance	1 x 10 ⁶ ops
Electrical endurance	3x 10 ⁴ ops(35A 277VAC, Resistive load, 85°C, 1s on 9s off)

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

COIL

Coil power	Approx. 1.88W
Holding voltage	30% to 110% U _N (at 85°C) 40% to 60% U _N (at 85°C)

- Notes:** 1)The coil holding voltage is the voltage applied to coil 100ms after the rated voltage.
2) To avoid overheating and burning, the coil can not be consistently applied to with voltage larger than maximum holding voltage.

CHARACTERISTICS

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil&contacts	5000VAC 1min
	Between open contacts	2000VAC 1min
	Between contacts sets	2000VAC 1min
Surge withstand voltage	10kV(1.2/50μs)	
Operate time(at nomi.volt.)	30ms max.	
Release time(at nomi.volt.)	10ms max.	
Coil temperature rise (at nomi.volt.)	70K max. (Contact load current 35A, rated voltage excitation 60%, at 85°C)	
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	
Termination	PCB	
Unit weight	Approx. 66g	
Construction	Flux proofed	

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

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
6	≤4.50	≥0.30	6.6	19.1 x (1±10%)
9	≤6.75	≥0.45	9.9	43.1 x (1±10%)
12	≤9.00	≥0.60	13.2	76.6 x (1±10%)
24	≤18.0	≥1.20	26.4	306.4 x (1±10%)
48	≤36.0	≥2.40	52.8	1225.5 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.



ORDERING INFORMATION

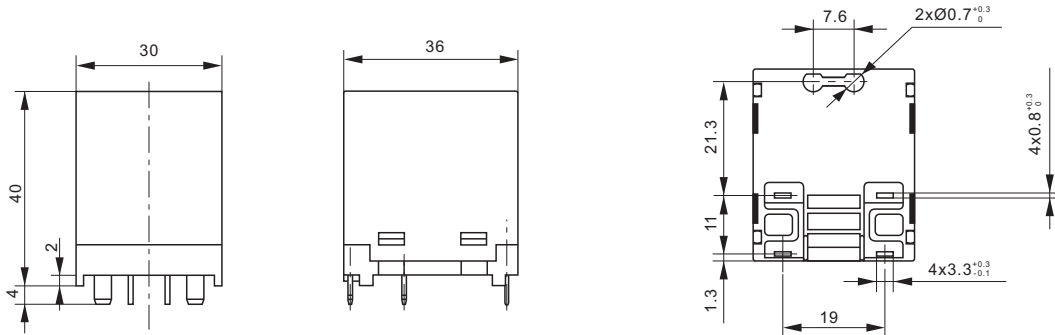
Type	JT970	12	-2H	T	F	(XXX)
Coil voltage	6, 9, 12, 24, 48VDC					
Contact arrangement	2H: 2 Form A					
Contact material	T: AgSnO ₂					
Insulation standard	F: Class F					
Special code ³⁾	XXX: Customer special requirement Nil: Standrad					

- Notes:** 1) Flux proofed relay can not be used in the environment with pollutants like H₂S, SO₂, NO₂, dust, etc..
 2) Water cleaning or surface process is not suggested after the flux proofed relay are assembled on PCB.
 3) The customer special requirement express as special code after evaluating by JINTIAN.

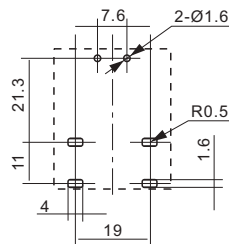
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB BOARD LAYOUT

Unit: mm

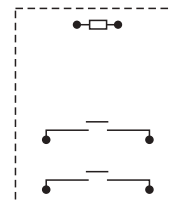
Outline Dimensions



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 ≤ 1 mm, tolerance should be ± 0.2 mm; outline dimension > 1 mm and ≤ 5 mm, tolerance should be ± 0.3 mm; outline dimension > 5 mm, tolerance should be ± 0.4 mm.
 3) The tolerance without indicating for PCB layout is always ± 0.1 mm.

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.