JT115F

SUBMINIATURE HIGH POWER RELAY





CQC File No:CQC20002241556

CONTACT DATA

Contact arrangement	1A,1C	2A,2C			
Contact resistance ¹⁾	100mΩ max.(at 1A 6VDC)				
Contact material	AgSnO ₂				
Contact rating (Res.load)	12A/16A 250VAC	8A 250VAC			
Max.switching voltage		250VAC			
Max.switching current	12A/16A	8A			
Max.switching power	3000VA/4000VA	2000VA			
Mechanical endurance		1 x 10 ⁶ ops			
Electrical endurance	1H3 type:5x10 ⁴ ops(16A 250VAC, Resistive load,Room temp.,1s on 9s off) 2H2 type:5x10 ⁴ ops(8A 250VAC, Resistive load,Room temp.,1s on 9s off) 1H1 type:5x10 ⁴ ops(12A 250VAC, Resistive load,Room temp.,1s on 9s off)				

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

CHARACTERISTICS

Insulation resistance			1000MΩ(at 500VDC)			
	Betwee	n coil&contacts	5000VAC 1min			
Dielectirc strength	Betwee	n open contacts	1000VAC 1min			
0	Betwee	n contact sets	2500VAC 1mir			
Operate tim	ie(at nor	ni.volt.)	15ms max.			
Release tim	ne(at nor	ni.volt.)	8ms max.			
Shock resistance*		Functional	98m/s ²			
		Destructive	980m/s			
Vibration resistance*		e*	10Hz to 55Hz 1.5mm DA			
Humidity			5% to 85% RH			
Ambient tenperature		e	-40°C to 105°C			
Termination			PCB			
Unit weight			Approx. 13.5g			
Construction			Plastic sealed, Flux proofed			

Notes: 1)The data shown above are initial values. 2)*Index is not in relay length direction. 3)UL insulation system: Class F.

Features

- 16A switching capability
- Low height: 15.6 mm
- 5kV dielectric strength(between coil and contacts)
- Creepage distance: 10mm
- Meeting VDE 0700, 0631 reinforce insulation
- Product in accordance to IEC 60335-1 available
 Multiple contact forms are available
- Multiple contact forms are available.
 UL insulation system: Class F
- _____

COIL

Coil power	Standard:Approx. 400mW
	Sensitive:Approx. 250mW

at 23°C

COIL	DATA	

Standard type								
Nominal Voltage VDC	Pick-up Voltage VDC ¹⁾	Drop-out Voltage VDC ¹⁾	Max. Voltage VDC* ²⁾	Coil Resistance Ω				
5	≤3.75	≥0.50	6.5	62 x (1±10%)				
6	≪4.50	≥0.60	7.8	90 x (1±10%)				
12	≪9.00	≥1.20	15.6	360 x (1±10%)				
24	≤18.0	≥2.40	31.2	1440 x (1±10%)				

Sensitive type

	Nominal Voltage VDC	Pick-up Voltage VDC ¹⁾	Drop-out Voltage VDC ¹⁾	Max. Voltage VDC* ²⁾	Coil Resistance Ω
	5	≤3.75	≥0.50	6.5	100 x (1±10%)
-	6	≪4.50	≥0.60	7.8	144 x (1±10%)
-	12	≪9.00	≥1.20	15.6	576 x (1±10%)
	24	≤18.0	≥2.40	31.2	2304 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

	3 type: 16A 250VAC 105°C
CQC	2 type: 8A 250VAC 105°C
	1 type: 12A 250VAC 105°C
	3 type: 16A 250VAC 85°C
τυν	1 type: 12A 250VAC 85°0
	2 type: 10A 250VAC 105°C
	12A 250VAC 105°C
	8A 250VAC 85°C

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

JT1 ²	15F	012	-1H	S	L	1	Т	F	Х
Туре									
Coil voltage 5, 6, 12	2, 24VDC								
Contact arrangement	1H : 1 Form A 2H : 2 Form A								
Construction ¹⁾²⁾	struction ¹⁾²⁾ S:Plastic sealed Nil:Flux proofed								
Coil type	L: Sensitive	L: Sensitive(0.25W) Nil: Standard(0.4W)							
Version	1: 3.5mm 1 pole 12A 2: 5.0mm 2 pole 8A/10A/12A 3: 5.0mm 1 pole 16A								
Contact material	T: AgSnO ₂								
Insulation standard	F: Class F								
Dielectirc strength	Nil: 1500VAC(Between open contacts)								

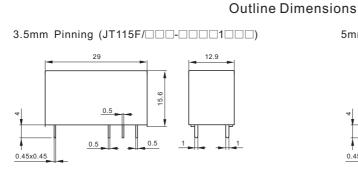
Notes: 1) We recommend flux proofed types for a clean environment(free from contaminations like H₂S,SO₂,NO₂,dust,etc.).

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.).

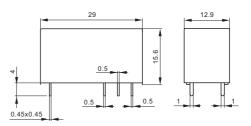
2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.

3) The customer special requirement express as special code after evaluating by JINTIAN. e.g. $% \label{eq:constraint}$

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT



5mm Pinning (JT115F/00-002/300)



Wiring Diagram (Bottom view)

3.5/5mm, 1 pole, 12A, JT115F/



5mm, 1 pole, 16A , JT115F/



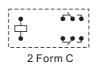
5mm, 2 pole, 8A /10A /12A, JT115F / 2 2 2 2 7F





1 Form C





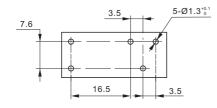
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

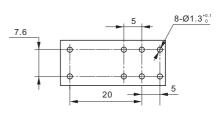
Unit: mm

8A/10A/12A

PCB Layout (Bottom view)

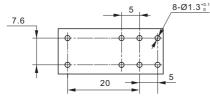
3.5mm 1 pole 12A





5mm 2 pole

16A



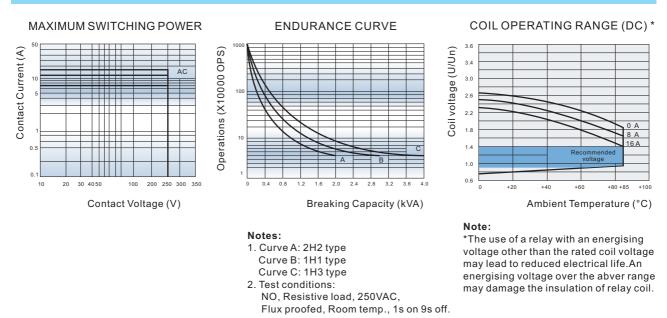
5mm 1 pole

Remark:1) 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 $\pm 0.4 \text{mm}$.

2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

3) The width of the gridding is 2.52mm.

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.