JZX-22F Miniature Relay

1. Overview

Available in three contact configurations: 2Z, 3Z, and 4Z. Complete range of AC/DC specifications with versatile mounting options. Comes with various socket choices, including models with indicator lights.

Similar models: HH52P(-L), MY2(N), JZX-18F(L), HH53P(-L), MY3(N), HH54P(-L) MY4(N).

2. Normal working conditions

Ambient temperature	**-25℃～+70℃**
Relative humidity	+20～90%
Atmospheric pressure	86kPa～106kPa
Altitude	≤2000m

3. Technical parameters

3.1 Contact data

Contact form	**2Z(C), 3Z(C), 4Z(C)**
Contact resistance	100mΩ(6VDC 100mA)
Material	Silver alloy(6VDC 100mA)
Contact capacity (COSΦ＝1.0)	2Z, 3Z： 5A； 4Z： 3A(250VAC/30VDC)
Max. switching voltage	250VAC/30VDC
Max. switching current	2Z, 3Z, 5A, 4Z, 3A
Max. switching power	2Z, 3Z, 1250VA/150W
	4Z：750VA/90W
Electrical life (times)	1×10^5
Mechanical life (times)	2Z, 4Z：5×10^7； 3Z： 1×10^7

3.2 Performance data

Insulation resistance		**100MΩ(500VDC)**
Dielectric withstand voltage	Between contacts of different groups	2000VAC, 1min
	Between open contacts	1000VAC, 1min
Pull-in time		≤ 25ms
Release time		≤ 25ms
Shock (stability)		Acceleration 200m/S^2, pulse duration 11ms
Vibration		Double amplitude 1mm, (10～55)Hz
Lead terminal type		Plug-in type, PCB type (welding)
Max. overall dimensions (mm)		27.8×21.8×43
IP degree		IP50 (2Z, 4Z)

3.3 General coil data

Rated power loss	**DC：0.9～1.2W，AC：1.8～2.0VA**
Pull-in voltage	DC：≤ 80% Us；AC：≤ 80% Us
Release voltage	DC：≥ 10% Us；AC：≥ 20% Us
Max. voltage	110% Us

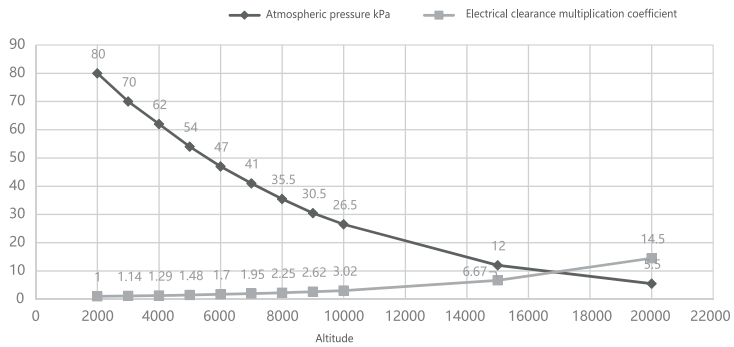
3.4 Specific coil data

Coil voltage VDC	Pull-in voltage VDC(≤)	Release voltage VDC(≥)	Coil resistance Ω
5	4.0	0.5	28×(1±10%)
6	4.8	0.6	44×(1±10%)
12	9.6	1.2	160×(1±10%)
24	19.2	2.4	640×(1±10%)
36	28.8	3.6	1440×(1±10%)
48	38.4	4.8	2300×(1±10%)
100/110	88.0	11.0	11300×(1±10%)
220	176.0	22.0	44000×(1±10%)

Coil voltage VAC	Pull-in voltage VAC(≤)	Release voltage VAC(≥)	Coil resistance Ω
6	4.8	1.2	10.5×(1±10%)
12	9.6	2.4	44×(1±10%)
24	19.2	4.8	180×(1±10%)
36	28.8	7.2	380×(1±10%)
48	38.4	9.6	650×(1±10%)
100/110	88.0	20.0	3600×(1±10%)
110/120	96.0	22.0	3900×(1±10%)
200/220	176.0	40.0	13500×(1±10%)
220	176.0	44.0	14500×(1±10%)
220/240	192.0	44.0	16300×(1±10%)
380	304.0	76.0	42000×(1±10%)

Note 1: Coil parameters and specification values are measuredat a coil temperature of 25°C.
Note 2: For reliable operation of the 380VAC coil, avoid continuous energization for extended periods.
Note 3: In high-temperature or high-humidity environments with rapid temperature changes, condensation may occur inside the relay. Dehumidification measures should betaken in such cases.
Note 4: Due to individual product variations, the predicted actual operating voltage is ≤80% of the rated value. The relay will operate normally at ≥80% of the rated voltage, but to ensure specified performance, apply the full rated voltage to the coil.
Note 5: Due to individual product variations, the predicted actual release voltage is ≥20% for AC coils and ≥10% for DC coils. To ensure reliable release, the voltage must be reduced below these values.
Note 6: Maximum voltage refers to the peak voltage that the relay coil can withstand for short durations.
Note 7: Altitude derating coefficient curve (reference multiplier for product capacity derating).
Note 8: Contact material parameters indicate the minimum applicable load, serving as a general guideline for switching micro-loads (e.g., electronic circuits). These values are not guaranteed and may vary based on switching frequency, environment, etc. Verify performance under actual operating conditions.
Note 9: It is recommended to power four sets of products using the same phase. If adjacent sets require different phases, select models with arc shields to prevent phase-to-phase short circuits caused by arcing.

Altitude derating coefficient curve



4. Matched socket

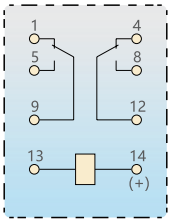
Relay model	JZX-22F/2Z(D)		
Matching socket + hook model	CZY08A-E(finger protection)+NG102	CZY08A-02(Narrow body)+NG102	CZY08B-01(widebody)+NG103
Socket dimensions(mm)	72×23×31	72×23×31	63×30.5×26
Connection	Screw type		

Relay model	JZX-22F/3Z(D)		
Matching socket + hook model	CZY11A-E(finger protection)+NG102	CZY11B+NG103	CZY11A+NG102
Socket dimensions(mm)	72×30×31	63×30.5×26	72×30×31
Connection	Screw type		

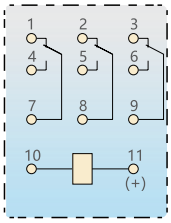
Relay model	JZX-22F/4Z(D)			
Matching socket + hook model	CZY14A+NG102	CZY14B+NG103	CZY14B-E(finger protection)+NG103	CZY14A-E(finger protection)+NG102
Socket dimensions(mm)	72×30×31	63×30.5×26	63×31×30	72×30×31
Connection	Screw type			

5. Overall dimensions

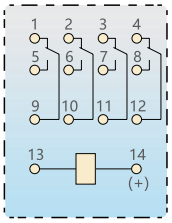
Connection diagram (2Z)



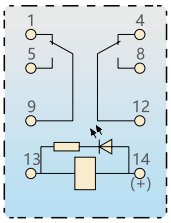
Connection diagram (3Z)



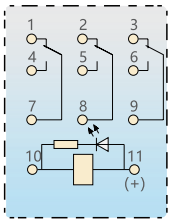
Connection diagram (4Z)



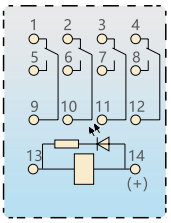
Connection diagram (2Zwith indicator)



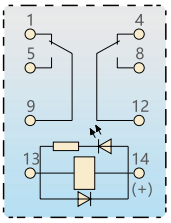
Connection diagram (3Zwith indicator)



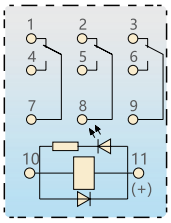
Connection diagram (4Zwith indicator)



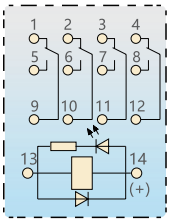
Connection diagram (2Z with indicator and diode)



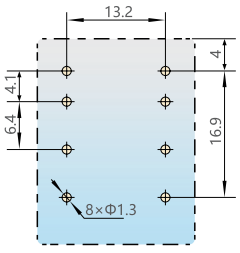
Connection diagram (3Z with indicator and diode)



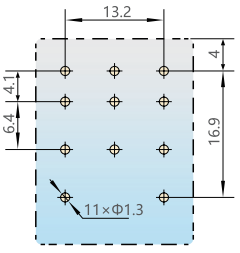
Connection diagram (4Z with indicator and diode)



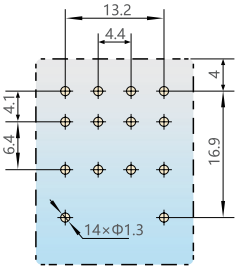
PCB mounting hole layout (2Z)



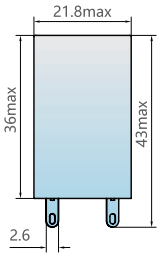
PCB mounting hole layout (3Z)



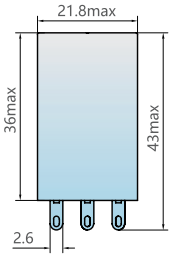
PCB mounting hole layout (4Z)



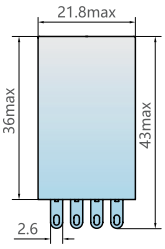
Shape (2Z plug-in type)



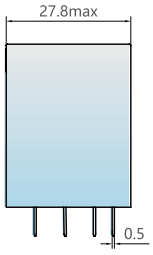
Shape (3Z plug-in type)



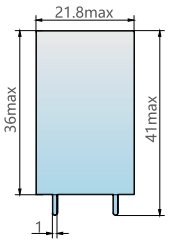
Shape (4Z plug-in type)



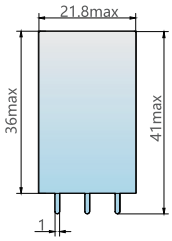
Shape(lateral side)



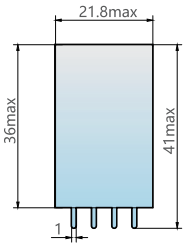
PCB type shape (2Z)



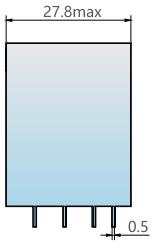
PCB type shape (3Z)



PCB type shape (4Z)



PCB type shape(lateral side)



6. Ordering information

JZX-22F	/	2Z	(D)	220VAC	PLU
Series		Contact form 2Z: 2 groups 3Z: 3 groups 4Z: 4 groups	Optional function D: w ith indicator B: w ith indicator and surge suppressor (DC) M: with arc shield (4Z model) Blank : Normal model	Coil voltage DC: 5V、6 V、12V 、2 4V、 36V、48V、1 00/110V、 220 V AC : 6V、1 2V、24 V 、36V、 48V、 100/11 0V、110/120V、 200/220V、 220 V220/2 40V、38 0V	Connection PL U : plug-in type PIN : PCB welding