



JQX-13F Miniature High-power Electromagnetic relay

1. General

Contact switching capability of 10A; a complete range of AC/DC specifications; enclosed in transparent dust cover, a variety of mounting types; various sockets available;

Specifications with state indicators available; certification: CQC 03001003918, UL E205607, CE; models of the same type: LY2(N), HH62P(-L).



2. Normal operating conditions and mounting conditions

Temperature range	-30℃~+60℃
Relative humidity	+40℃ return 90%
Atmospheric pressure	86kPa~106kPa
Working position	Any

3. Technical data

3.1 Contact data

Contact form	2Z(C)
Initial contact resistance	100mΩ
Contact material	Silver alloy
Contact load (resistive)	10A/220VAC、10A/28VDC
Max. switching voltage	250VAC/125VDC
Max. switching current	10A
Max. switching power	2200VA 280W
Electrical life (times)	1×10 ⁵
Mechanical life (times)	1×10 ⁷

3.2 Characteristics data

Insulation resistance	100MΩ(500VDC)	
Dielectric strength	Between coil & yoke, between different groups of contacts	1500VAC
	Between open contacts	1000VAC
Operation time	≤25ms	
Release time	≤25ms	
Shock (resistance)	Acceleration: 100m/s ² , pulse duration: 11ms	
Vibration	1mm double amplitude, 10~55Hz	
Outlet terminal type	Plug-in type, PCB type	
Overall dimensions (mm)	27.5×21.5×35.5	

3.3 Coil data

Rate power consumption	0.9W、1.2VA
Pick-up voltage	DC: ≤75% rated voltage; AC: ≤80% rated voltage
Release voltage	DC: ≥10% rated voltage; AC: ≥20% rated voltage
Max. voltage	110% Rated voltage

3.4 Specification data

Rated voltage	Operation voltage VDC(≤)	Release voltage VDC(≥)	Coil resistance Ω ±10%
5	3.75	0.5	28
6	4.5	0.6	44
12	9.0	1.2	160
24	18.0	2.4	640
36	27.0	3.6	1440
48	36.0	4.8	2560
110	82.5	11.0	14500
127	95.3	12.7	17000
220	165.0	22.0	39000

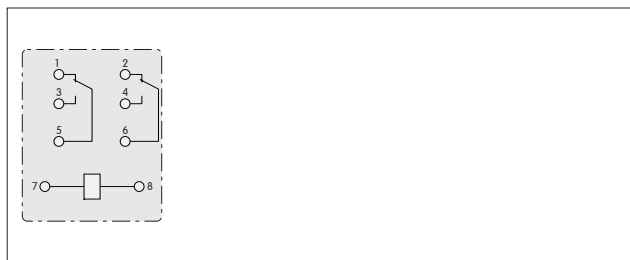
Rated voltage	Operation voltage VDC(≤)	Release voltage VDC(≥)	Coil resistance Ω ±10%
6	4.8	1.2	10.5
12	9.6	2.4	44
24	19.2	4.8	180
36	28.8	7.2	380
48	38.4	9.6	650
110	88.0	22	3670
127	101.6	25.4	4100
220	176.0	44	14500
380	304.0	76	39000

4. Matching socket (optional)

Relay model	JQX-13F(D)/ZZ			
Model of matching socket	CZT08A-01	CZT08A-02	CZT08B-01	CZT08B-01E
Overall dimensions of socket (mm)	72×30×31	72×23×31	68×30×28	68×30×28
Type of socket lead	Screw terminal (installation type, rail type)			

5. Overall and mounting dimensions (mm)

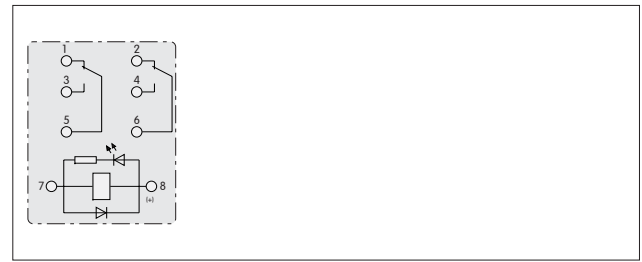
Connection diagram (bottom view) (2Z)



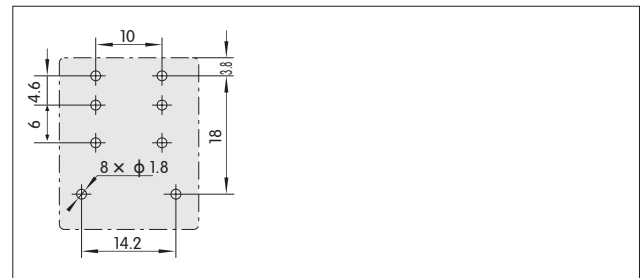
Connection diagram (bottom view) 2Z(D)



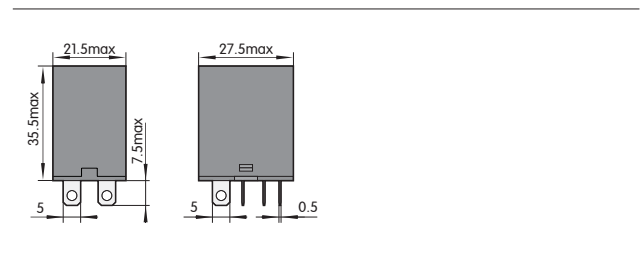
Connection diagram (bottom view) 2Z(B)



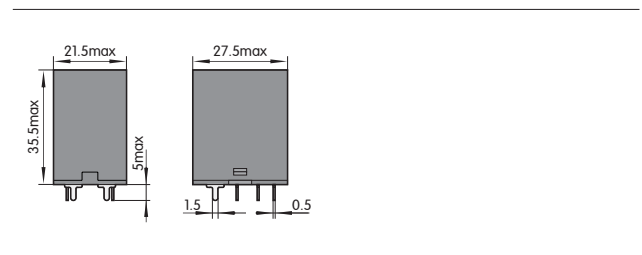
PCB opening drawing (2Z)



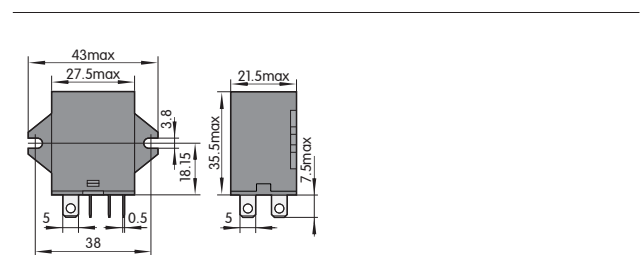
Outline drawing (plug-in type)



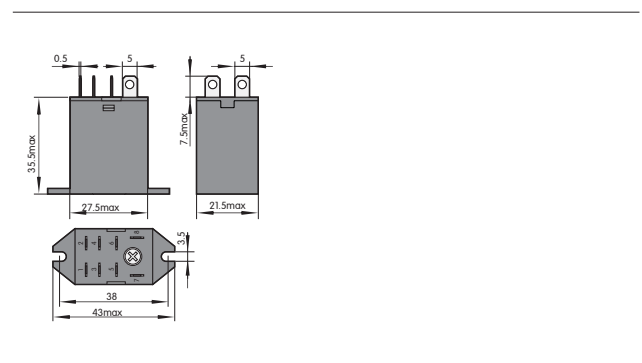
Outline drawing (PCB type)



Outline drawing (lateral flange type)



Outline drawing (top flange type)



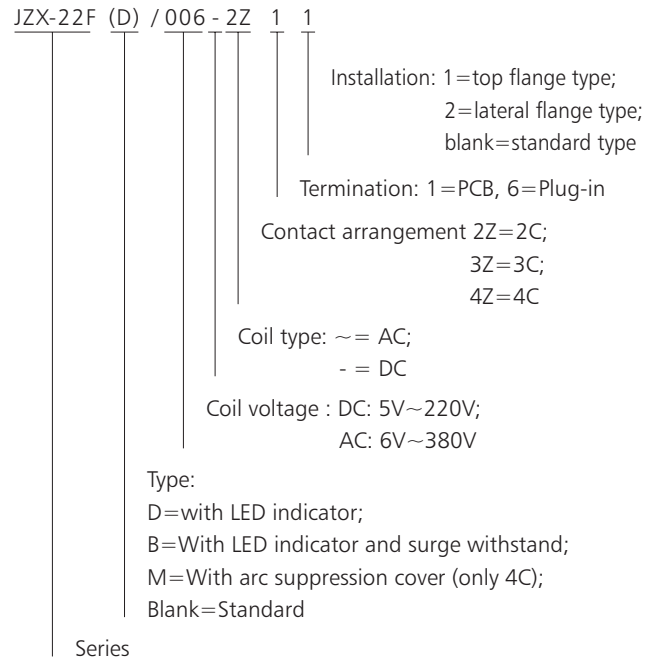


JZX-22F Miniature Power Relay

1. General

- 1.1 3A, 5A switching current
- 1.2 Various sockets available
- 1.3 With indicator to be selected
- 1.4 Full range of AC and DC coil
- 1.5 Certificate: CE.

2. Type designation



3. Technical data

Contact Arrangement		2C	3C	4C
Initial contact resistance	m Ω	100		
Contact material		Silver alloy		
Rated load(resistive)		5A/220VAC	3A/220VAC	
		5A/28VDC	3A/28VDC	
MAX. switching voltage	VAC	250		
	VDC	125		
MAX. switching current	A	5	3	
	VA	1100VA	660VA	
Max. switching capacity	W	140	84	
Electrical endurance	Cycles(× 10 ³)	100		
Machanical endurance	Cycles(× 10 ⁶)	10		

4. Coil specification

AC

Rated voltage	Holding voltage	Must drop-out voltage	Operating range	Power consumption
6	80%Un	20%Un	(80%~110%)Un	1.2VA
12				
24				
36				
48				
110				
127				
220				
230				
380				



DC

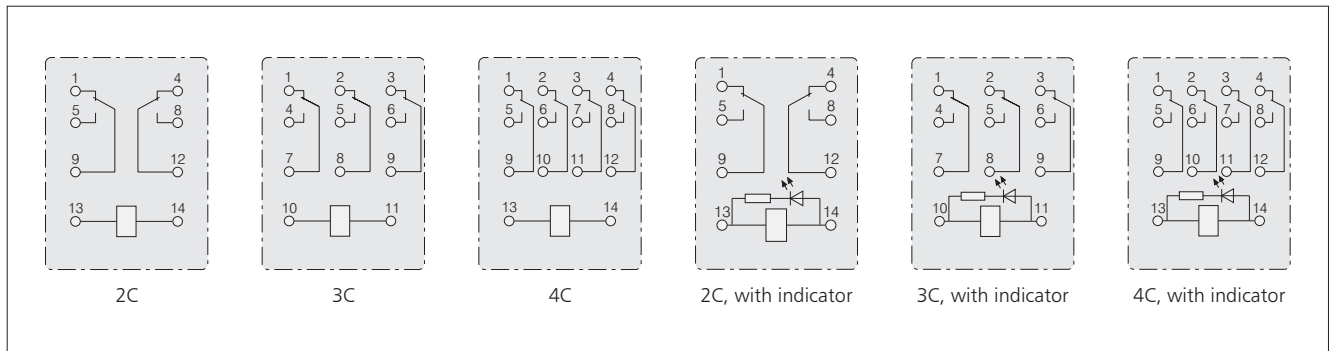
Rated voltage	Holding voltage	Must drop-out voltage	Operating range	Power consumption
5	75%Un	10%Un	(75%~110%) Un	0.9W
6				
12				
24				
36				
48				
110				
127				
220				

5. Characteristics

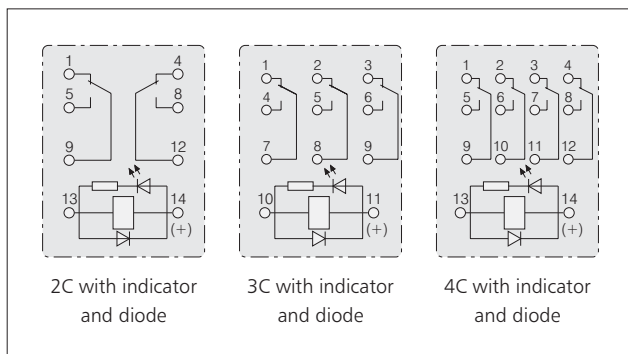
Insulation resistance(at 500VDC)		MΩ	100
Dielectric strength	Between coil & contacts		1500VAC
	Between open contacts		1000VAC
Operation time		ms	≤25
Release time		ms	≤25
Shock resistance		m/s ²	100
Vibration			10~55Hz, 1mm double amplitude
Humidity			90% RH at +40℃
Ambient temperature range		℃	-30~+55
Termination			Plug-in, PCB
Dimension		mm	27.5×21.5×35.5

6. Overall mounting dimensions (mm)

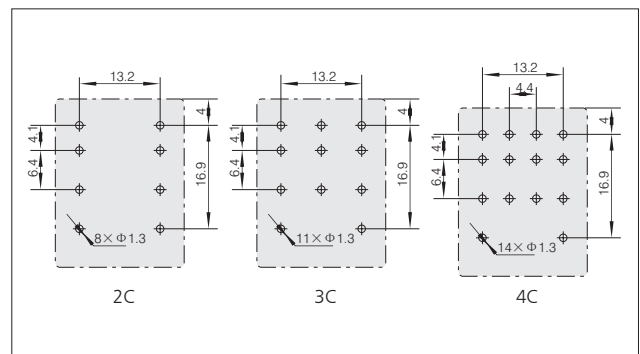
Internal connection(bottom view)

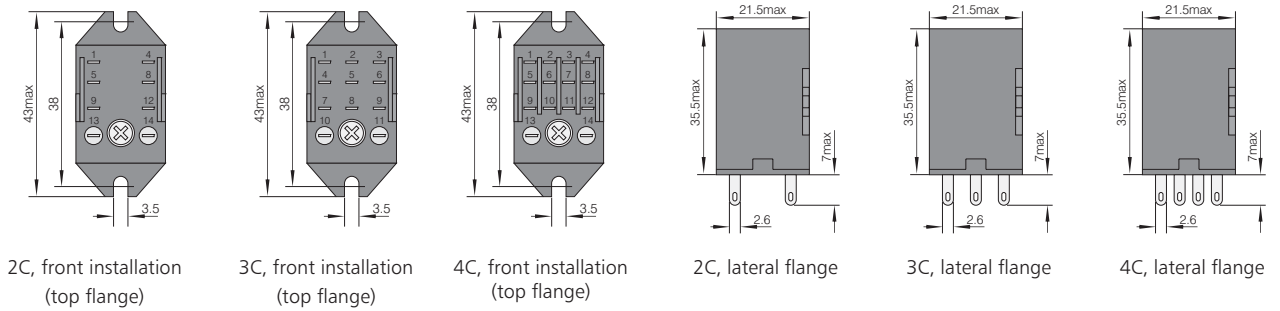
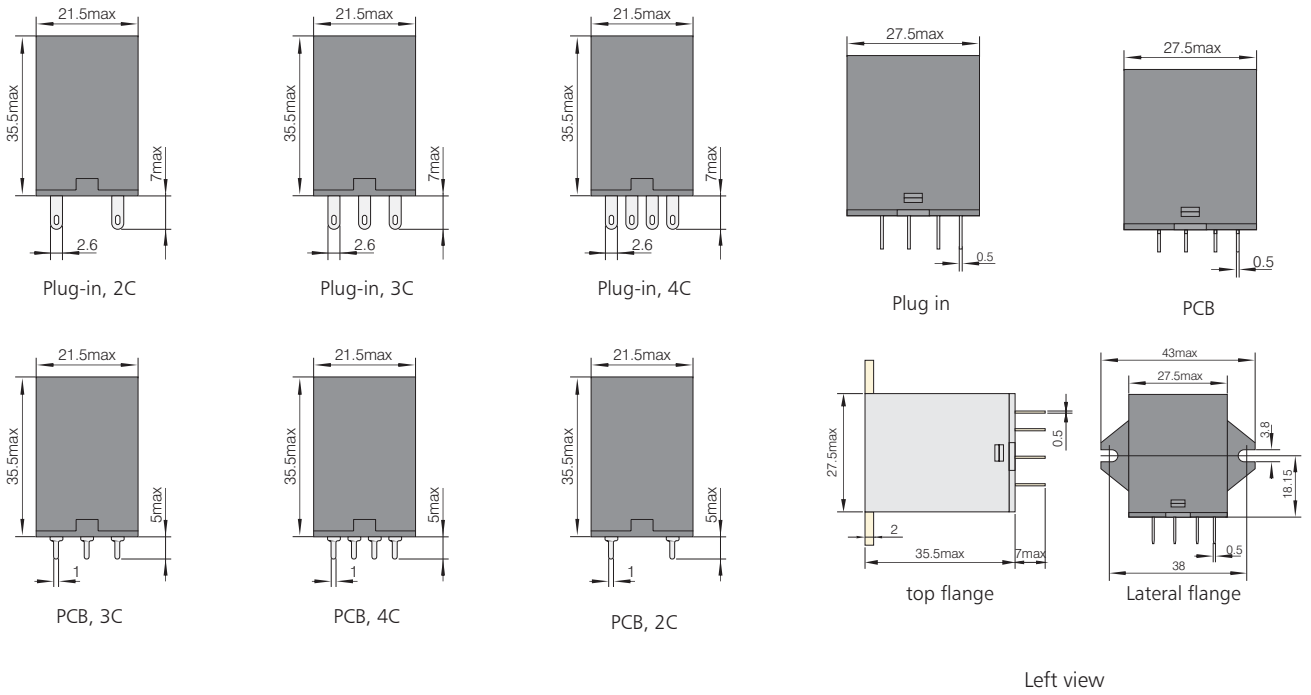


Internal connection(bottom view)



PCB mounting poles





4 Technical data

4.1 Main data and technical characteristics

Type	Conventional heating current (A)	Max. rated power (kW)		Model of matching AC contactor	Model of matching motor protector	Setting current range (A)	Number of turns of protector (turn)
		AC-3					
		380V	220V				
NJBK5-10 0.72A~2.4A	2.4	1.1	0.55	CJX2-1210	JD-8/0.5A~5A	0.72~2.4	5
NJBK5-10D 0.72A~2.4A							
NJBK5-10 3.5A~11A	12	5.5	3	CJX2-1210	JD-8/2A~20A	3.5~11	1
NJBK5-10D 3.5A~11A							
NJBK5-10 10A~16A	16	7.5	4	CJX2-1810	JD-8/2A~20A	10~16	1
NJBK5-10D 10A~16A							
NJBK5-10 20A~25A	25	11	5.5	CJX2-2510	JD-8/20A~80A	20~25	1
NJBK5-10D 20A~25A							

4.2 Rated control supply voltage U_s : AC220V, AC380V.

4.3 Degree of protection of enclosure: IP55.

4.4 Protection characteristics of the controller

4.4.1 Phase failure protection characteristics of the controller: In case of failure of any phase of the three-phase main circuit passing through the center hole of the motor comprehensive protector in the controller, the motor comprehensive protector operates for a period of $\leq 5s$.

4.4.2 Overload protection characteristics of the controller under balanced three-phase load.

No.	Setting current multiple	Operation time			Starting conditions
1	1.05	No operation within 2h			Cold state start
2	1.2	Operation within 2h			Start after No.1
3	1.5	Tripping class	30	$\leq 12min$	Start after applying a 1.0 times setting current for 2h
4	7.2	Tripping class	30	$9s < T_p \leq 30s$	Cold state start

4.5 Down-lead distance of liquid level control electrode: 200m max.

4.6 Mounting type: installation type.

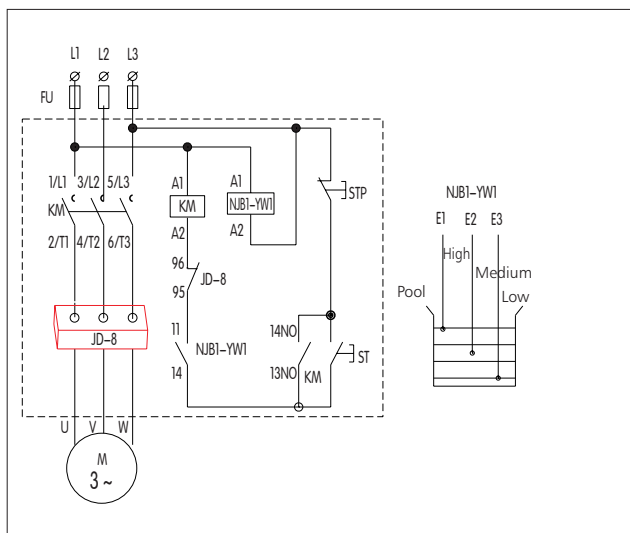
5. Features

The controller consists of a CJX2 series AC contactor, a JD-8 series motor comprehensive protector and an NJB1-YW1 liquid level relay in a protective enclosure and is divided into two types, with liquid level relay and without liquid level relay. Products with liquid level relay are used to control the start and stop and automatic pumping and drainage of water pumps and provide overload and phase failure protection. Products without liquid level relay are used to control the start and stop of motors and provide overload and phase failure protection.

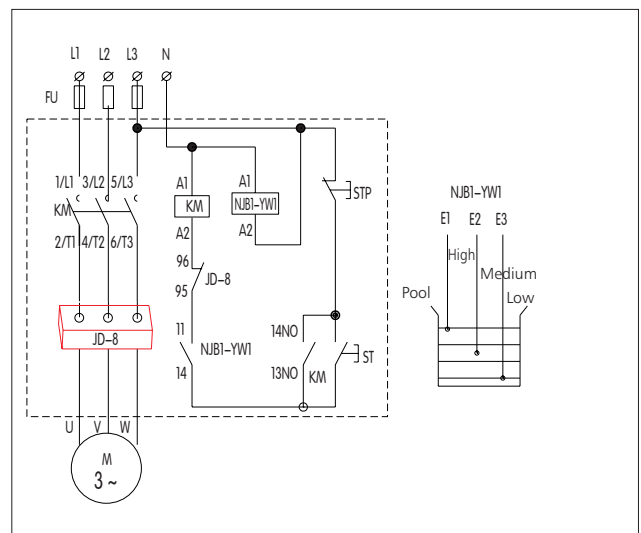
Setting of the motor comprehensive protector in the controller is required before it is connected and put into use.

6. Wiring diagram

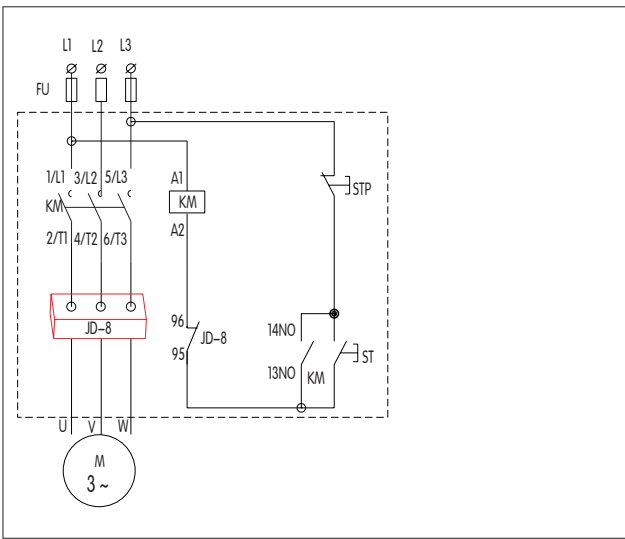
a. Connection diagram of NJBK5-10 in case both the control circuit voltage and the main circuit voltage are AC380V



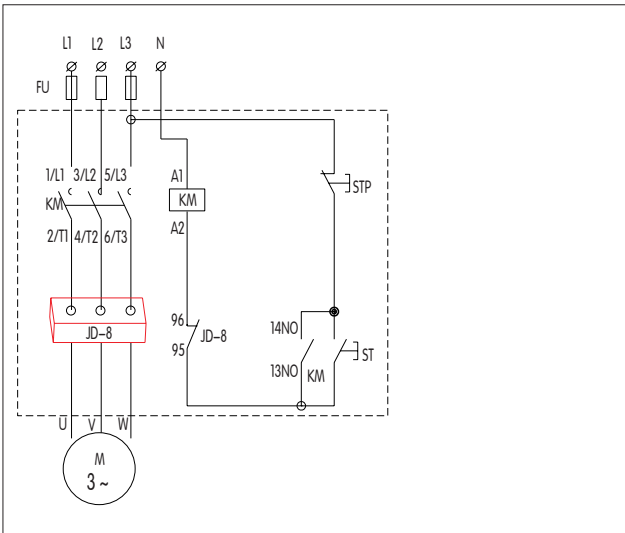
b. Connection diagram of NJBK5-10 in case the main circuit voltage is AC380V and the control circuit voltage is AC220V



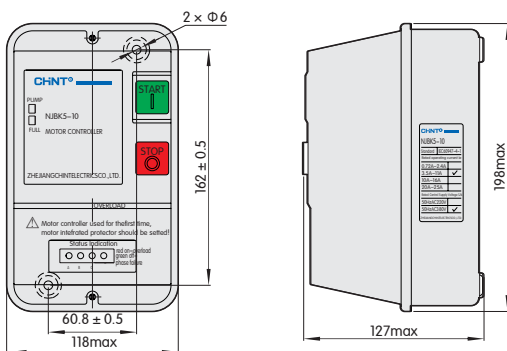
a. Connection diagram of NJBK5-10D in case both the control circuit voltage and the main circuit voltage are AC380V



b. Connection diagram of NJBK5-10D in case the main circuit voltage is AC380V and the control circuit voltage is AC220V



7. Overall and mounting dimensions (mm)





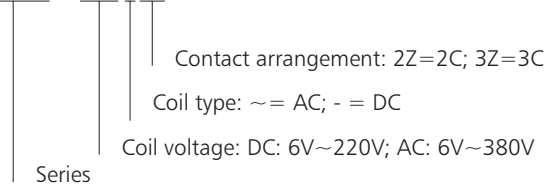
JQX-10F Miniature power relay

1. General

- 1.1 10A switching current
- 1.2 Various sockets available
- 1.3 Wide range of coil ratings
- 1.4 Certificate: UL, CE

2. Type designation

JQX-10F / 006 - 2Z



3. Technical data

Contact Arrangement		2C, 3C
Initial contact resistance	mΩ	100
Contact material		Silver alloy
Rated load (resistive)		10A/250VAC, 10A/28VDC
Max. switching voltage	VAC	250
	VDC	125
Max. switching current	A	10
Max. switching power	VA	2500
	W	280
Electrical endurance	Cycles($\times 10^3$)	100
Machanical endurance	Cycles($\times 10^6$)	10

4. Coil specification

AC

Rated voltage	Holding voltage	Must drop-out voltage	Operating range	Power consumption
6	80%Un	20%Un	(80%~110%)Un	3VA
12				
24				
36				
48				
110				
127				
220				
230				
380				

DC

Rated voltage	Holding voltage	Must drop-out voltage	Operating range	Power consumption
5	75%Un	10%Un	(75%~110%)Un	2W
6				
12				
24				
36				
48				
110				
127				
220				

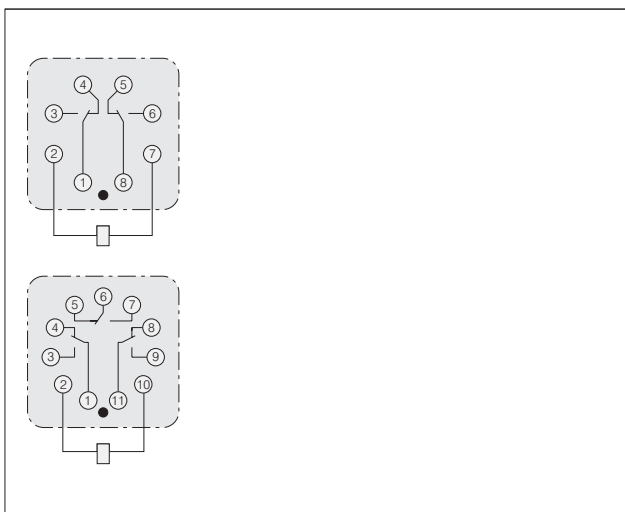


5. Characteristics

Insulation resistance(at 500VDC)		MΩ	100
Dielectric strength	Between coil & contacts		1500VAC
	Between open contacts		1000VAC
Operation time		ms	≤25
Release time		ms	≤25
Shock resistance		m/s ²	100
Vibration			10~55Hz,1mm double amplitude
Humidity			98% RH at +20℃
Ambient temperature range		℃	-40~+55
Termination			Plug-in, PCB
Dimension		mm	35×35×52

6. Overall and mounting dimensions (mm)

Internal connection (bottom view)



Dimensions

