



## NJDC-12 Series Miniature Relays with Test Button

### 1. General

2Z, 3Z contacts form; contacts switching current up to 10A; complete AC and DC specifications; with test button functions, A wide range of device socket are available.

NJDC-12 / 2Z

Contact form:  
 2Z:two sets of conversions  
 3Z:three sets of conversionsr

Relay Series:NJDC-12

### 2. Operating conditions

Temperature Range	-25°C ~ +55°C
Relative humidity	+25°C Reach95%
Atmospheric pressure	86kPa~106kPa
Elevation	≤2000m

### 3. Technical data

#### 3.1 Contact parameters

Contact form	2Z(C),3Z(C)
Initial contact resistance	100mΩ
Contact Material	Silver alloy
Contact load(resistive)	10A/250VAC,10A/30VDC
Maximum switching voltage	250VAC/30VDC
Maximum switching current	10A
Maximum switching power	2500VA/ 300W
Electrical life(times)	1×10 <sup>7</sup> (See safety certification report)
Mechanical life(times)	1×10 <sup>7</sup>

### 3.2 Performance and characteristic parameter

Insulation Resistance		100MΩ(500VDC)
Dielectric Strength	Contact and coil,between different sets of contacts	1500VAC
	Between open contacts	500VAC
Action time (25°C ,rated voltage)		≤20ms
Release time (25°C ,rated voltage)		≤20ms
Shock(stability)		Acceleration 100m/s <sup>2</sup> , pulse duration of 11 ms
Vibration		Double amplitude of 1 mm(10~55) Hz
Terminal form		Plug-in
Outside dimensions(mm)		35x35x53

### 3.3 Coil parameters

Rated power consumption		1.6W 3VA
Pull-in voltage	DC:≤ 80% rated voltage;AC:≤ 80% of rated voltage	
Release voltage	DC:≥ 10% rated voltage;AC:≥ 20% of rated voltage	
Maximum voltage	110% rated voltage	

### 3.4 Specifications

Rated voltage VDC	Action voltage VDC(≤)	Release voltage VDC(≥)	Coil resistance Ω± 10%
6	4.8	0.6	22
12	9.6	1.2	80
24	19.2	2.4	360
36	28.8	3.6	840
48	38.4	4.8	1440
110	88.0	11.0	7560
220	176.0	22.0	29000

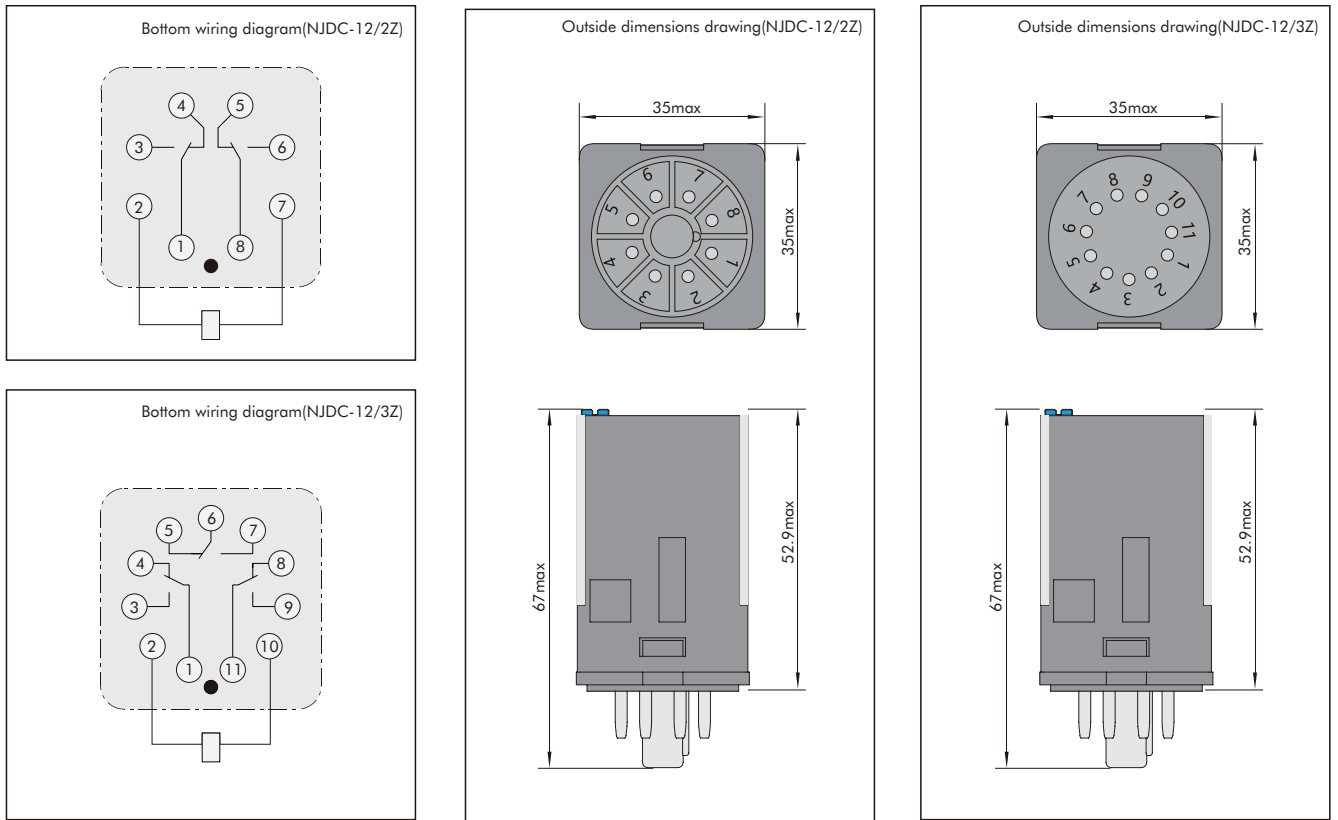
Rated voltage VAC	Action voltage VAC(≤)	Release voltage VAC(≥)	Coil resistance Ω± 10%
6	4.8	1.2	7
12	9.6	2.4	19
24	19.2	4.8	80
48	38.4	9.6	400
110	88.0	22	1600
220	176.0	44	7300
230	184	46	7950
240	192	48	8600
380	304.0	76	21000

Note: The coil temperature parameter is value in 25°C .

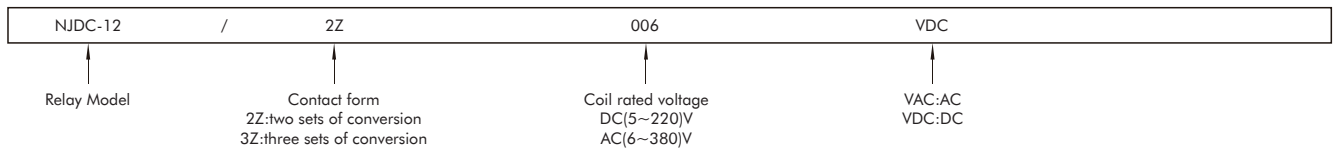
## 4. Matching socket (optional)

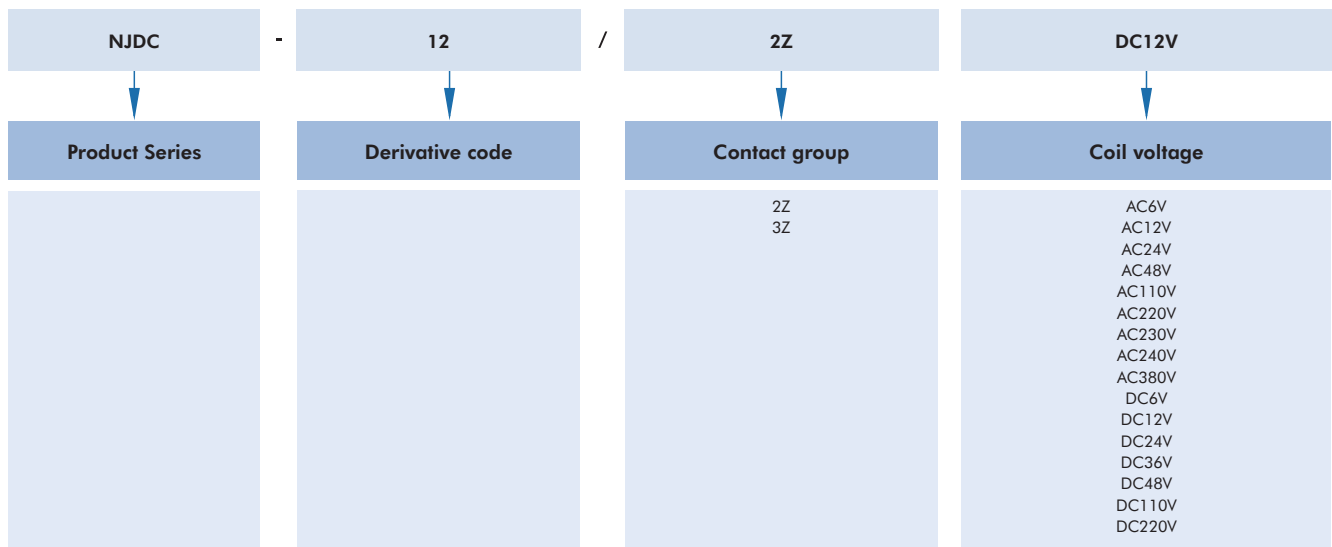
Relay Model	NJDC-12/2Z	
Model of equipped socket	CZF08A With finger safety protection	CZF08A-E
Socket Dimensions(mm)	52×41×21.5	52×41×21.5
Socket lead form	Screw-type terminals(device type, Din-rail type)	
Relay Mode	NJDC-12/3Z	
Model of equipped socket	CZF11A	CZF11A-E
Socket Dimensions(mm)	52×44×31	52×44×31
Socket lead form	Screw-type terminals (device type, Din-rail type)	

### 5. Outside shape and mounting dimensions



### 6. Ordering Information





Contact	Rated current	Coil voltage	Model Description	Code
2Z	250V/10A	AC6V	NJDC-12/2Z AC6V	
2Z	250V/10A	AC12V	NJDC-12/2Z AC12V	
2Z	250V/10A	AC24V	NJDC-12/2Z AC24V	651109
2Z	250V/10A	AC48V	NJDC-12/2Z AC48V	
2Z	250V/10A	AC110V	NJDC-12/2Z AC110V	651107
2Z	250V/10A	AC220V	NJDC-12/2Z AC220V	651108
2Z	250V/10A	AC230V	NJDC-12/2Z AC230V	
2Z	250V/10A	AC240V	NJDC-12/2Z AC240V	
2Z	250V/10A	AC380V	NJDC-12/2Z AC380V	651110
2Z	250V/10A	DC6V	NJDC-12/2Z DC6V	
2Z	250V/10A	DC12V	NJDC-12/2Z DC12V	651112
2Z	250V/10A	DC24V	NJDC-12/2Z DC24V	651114
2Z	250V/10A	DC36V	NJDC-12/2Z DC36V	
2Z	250V/10A	DC48V	NJDC-12/2Z DC48V	
2Z	250V/10A	DC110V	NJDC-12/2Z DC110V	651111
2Z	250V/10A	DC220V	NJDC-12/2Z DC220V	651113
3Z	250V/10A	AC6V	NJDC-12/3Z AC6V	
3Z	250V/10A	AC12V	NJDC-12/3Z AC12V	
3Z	250V/10A	AC24V	NJDC-12/3Z AC24V	651117
3Z	250V/10A	AC48V	NJDC-12/3Z AC48V	
3Z	250V/10A	AC110V	NJDC-12/3Z AC110V	651115
3Z	250V/10A	AC220V	NJDC-12/3Z AC220V	651116
3Z	250V/10A	AC230V	NJDC-12/3Z AC230V	
3Z	250V/10A	AC240V	NJDC-12/3Z AC240V	
3Z	250V/10A	AC380V	NJDC-12/3Z AC380V	651118
3Z	250V/10A	DC6V	NJDC-12/3Z DC6V	
3Z	250V/10A	DC12V	NJDC-12/3Z DC12V	651120
3Z	250V/10A	DC24V	NJDC-12/3Z DC24V	651122
3Z	250V/10A	DC36V	NJDC-12/3Z DC36V	
3Z	250V/10A	DC48V	NJDC-12/3Z DC48V	
3Z	250V/10A	DC110V	NJDC-12/3Z DC110V	651119
3Z	250V/10A	DC220V	NJDC-12/3Z DC220V	651121