



## NJDC-12 Small Electromagnetic Relay with Test Button

### 1. General

2Z, 3Z contacts form; contacts switching current up to 7.5A; complete AC and DC specifications; with test button functions, A wide range of device socket are available.

### 2. Operating conditions

<b>Temperature Range</b>	-10°C~+55°C
Relative humidity	+20°C Reach 90%
Atmospheric pressure	86kPa~106kPa
Working position	Upright or side mounted (reed at the top)

### 3. Technical data

#### 3.1 Contact parameters

<b>Contact form</b>	<b>2Z(C),3Z (C)</b>
Initial contact resistance	100mΩ
Contact Material	Silver alloy
Contact load (resistive)	7.5A/220VAC, 7.5A/28VDC
Maximum switching voltage	250VAC/125VDC
Maximum switching current	7.5A
Maximum switching power	1650VA 210W
Electrical life (times)	1×10 <sup>5</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		≤20ms
Release time		≤20ms
Shock (stability)		Acceleration 100m/s <sup>2</sup> , pulse duration of 11ms
Vibration		Double amplitude of 1 mm (10~ 55) Hz
Terminal form		Plug-in
Outside dimensions (mm)		35×35×52.5

### 3.3 Coil parameters

Rated power consumption	2W 3VA
Pull-in voltage	DC: ≤ 75% 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	4.5	0.6	22
12	9.0	1.2	80
24	18.0	2.4	360
36	27.0	3.6	840
48	36.0	4.8	1440
110	82.5	11.0	7560
220	165.0	22.0	29000

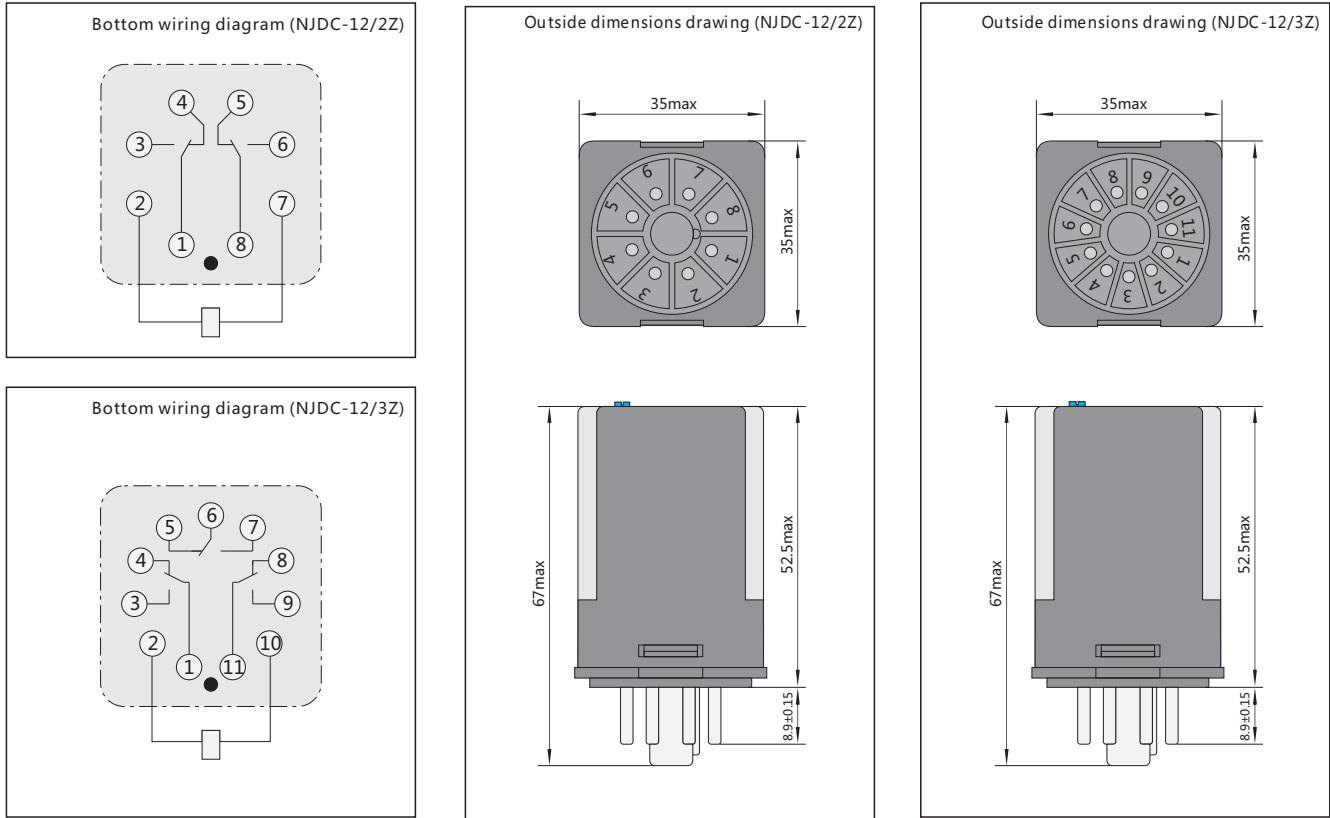
Rated voltage VAC	Action voltage VAC (≤)	Release Voltage VAC (≥)	Coil resistance (20 °C) Ω ± 10%
6	4.8	1.2	7
12	9.6	2.4	19
24	19.2	4.8	80
48	38.4	9.6	400
110	88.0	22	1600
220	176.0	44	7300
380	304.0	76	21000

Note: The coil coil temperature parameter is value in 20°C.

## 4. Matching socket (optional)

Relay Model	NJDC-12/2Z	
Model of equipped socket	CZF08A	CZF08A-E
Socket Dimensions (mm)	52×41×21.5	52×41×21.5
Socket lead form	Screw-type terminals (device type, rail)	
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, rail)	

### 5. Outside shape and mounting dimensions



### 6. Ordering Information

