

Industrial Relay	NX
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#### Features

- 100A switching capability
- Low coil power consumption
- Plastic cover available
- 1 and 2poles contact arrangement



## 1. COIL DATA (at 23°C)

### 1) DC Type

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max Allowable Voltage (VDC)	Coil Current (mA)( $\pm 10\%$ )	Coil Resistance ( $\Omega$ )	Coil Power (W)
6	4.50	0.60	6.60	500	18 x ( $1\pm 10\%$ )	$\leq 3$
9	6.75	0.90	9.90	333	40.5 x ( $1\pm 10\%$ )	
12	9.00	1.20	13.2	250	72 x ( $1\pm 10\%$ )	
24	18.0	2.40	26.4	125	288 x ( $1\pm 10\%$ )	
48	36.0	4.80	52.8	62.5	1152 x ( $1\pm 10\%$ )	
110	82.5	11.0	121	27.3	6050 x ( $1\pm 10\%$ )	
220	165	22.0	242	13.6	16176 x ( $1\pm 10\%$ )	

### 2) AC Type

Nominal Voltage (VAC)	Pick-up Voltage (VAC)	Drop-out Voltage (VAC)	Max Allowable Voltage (VAC)	Coil Resistance ( $\Omega$ )	Coil Power (VA)
6	4.80	1.80	6.60	0.8 x ( $1\pm 10\%$ )	$\leq 10$
9	7.20	2.70	9.90	1.8 x ( $1\pm 10\%$ )	
12	9.60	3.60	13.2	3 x ( $1\pm 10\%$ )	
24	19.2	7.20	26.4	11.5 x ( $1\pm 10\%$ )	
48	38.4	14.4	52.8	46 x ( $1\pm 10\%$ )	
110	88.0	33.0	121	422 x ( $1\pm 10\%$ )	
220	176	66.0	242	968 x ( $1\pm 10\%$ )	
380	304	114	418	2888 x ( $1\pm 10\%$ )	

## 2. CONTACT DATA

Contact Arrangement	1 Form C, 2 Form A, 2 Form C	
Contact Resistance	100mΩ max. (at 1A 6VDC)	
Contact Material	AgSnO <sub>2</sub>	
Contact Ratings (Resistive load)	100A 250VAC / 28VDC	
Max. Switching Voltage	250VAC / 28VDC	
Max. Switching Current	100A	
Max. Switching Power	25000VA / 2800W	
Life Expectancy	Electrical	100,000 operations (at 30 operations/minute)
	Mechanical	1,000,000 operations (at 300 operations/minute)

## 3. CHARACTERISTICS

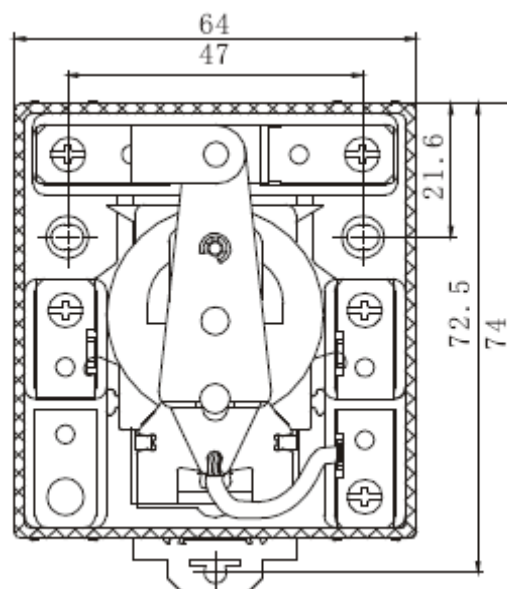
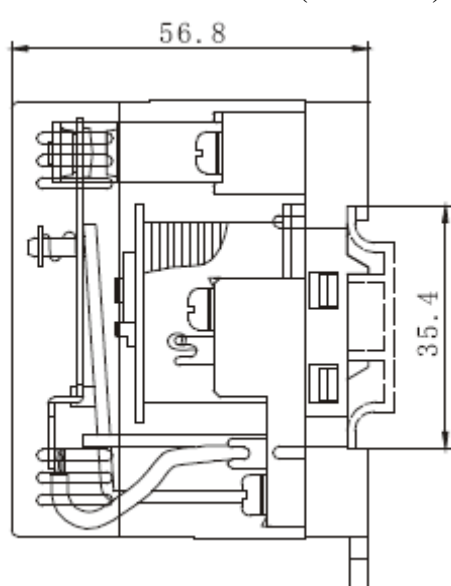
Contact Arrangement	1 Form C	2 Form A	2 Form C
Insulation Resistance	1000MΩ (at 500VDC)		
Dielectric Strength	Open Contacts	1500VAC 50Hz/1min	Leakage current 1mA
	Coil and Contacts	2500VAC 50Hz/1min	Leakage current 1mA
	Contacts pieces	2500VAC 50Hz/1min	Leakage current 1mA
Operate Time (at nominal voltage)	30ms max.		
Release Time (at nominal voltage)	30ms max.		
Temperature Range	-25°C ~ 55°C		
Termination	Screw Mounting		
Weight	Approx. 240g	Approx. 245g	Approx. 300g
Outline Dimension (L x W x H)	74.0 x 64.0 x 56.8mm	74.0 x 64.0 x 54.5mm	92.7 x 64.0 x 54.5mm

#### 4. ORDERING INFORMATION

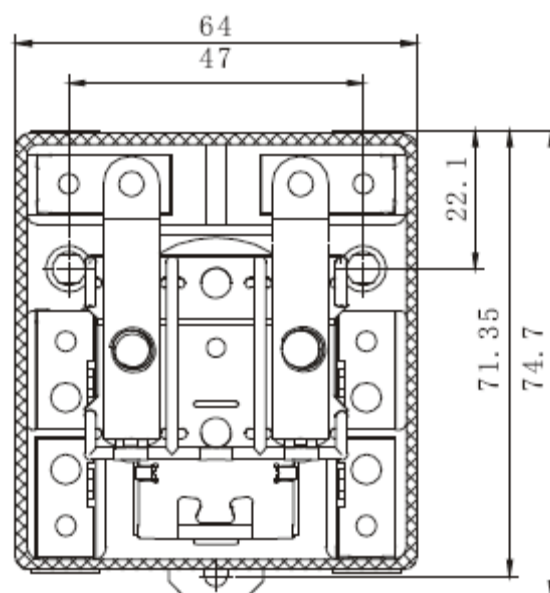
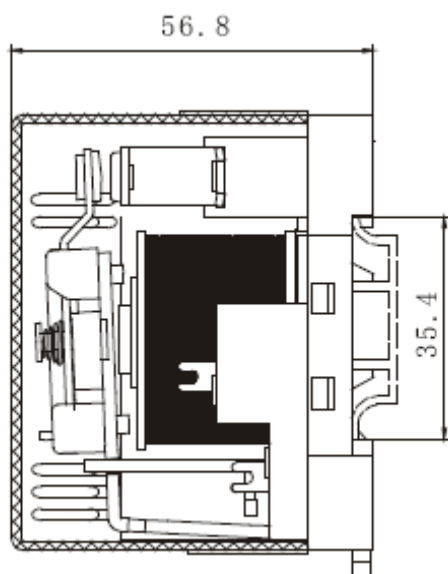
<u>NX</u> <u>2</u> - <u>A220</u> ①       ②       ③	
① Relay Model	NX
② Contact Arrangement	1: 1 Form C (SPDT) 22: 2 Form A (DPST-NO) 2: 2 Form C (DPDT)
③ Coil Voltage	DC: D6=6VDC, D9=9VDC, D12=12VDC, D24=24VDC, D48=48VDC, D110=110VDC, D220=220VDC AC: A6=6VAC, A9=9VAC, A12=12VAC, A24=24VAC, A48=48VAC, A110=110VAC, A220=220VAC, A380=380VAC

#### 5. INSTALLATION DIMENSIONS (Unit: mm)

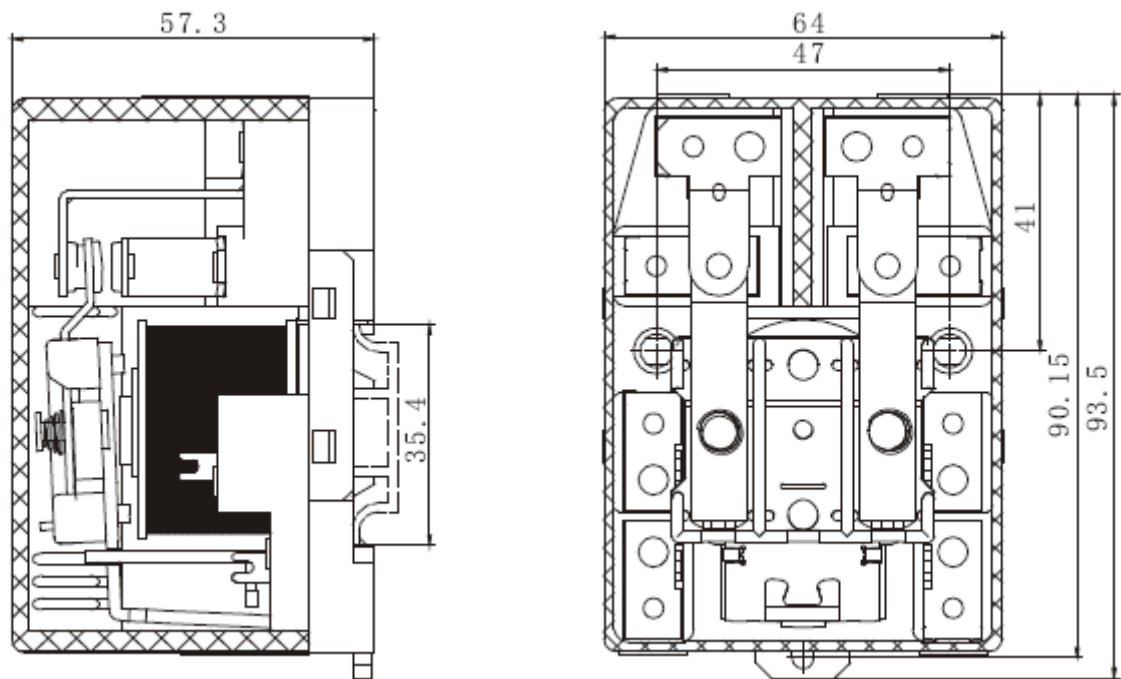
1 Form C



2 Form A



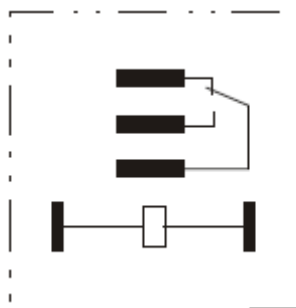
2 Form C



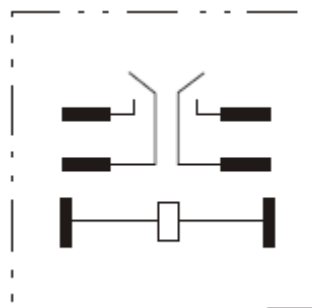
**Remark:** 1) In case of no tolerance shown in outline dimension: outline dimension  $\leq 1\text{mm}$ , tolerance should be  $\pm 0.2\text{mm}$ ; outline dimension  $> 1\text{mm}$  and  $\leq 5\text{mm}$ , tolerance should be  $\pm 0.3\text{mm}$ ; outline dimension  $> 5\text{mm}$ , tolerance should be  $\pm 0.4\text{mm}$ .

2) The tolerance without indicating for PCB layout is always  $\pm 0.1\text{mm}$

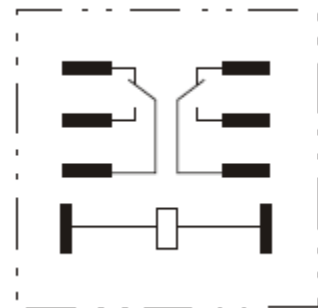
### Connecting Diagram



1 Form C



2 Form A



2 Form C