

# NXRC contactor relay

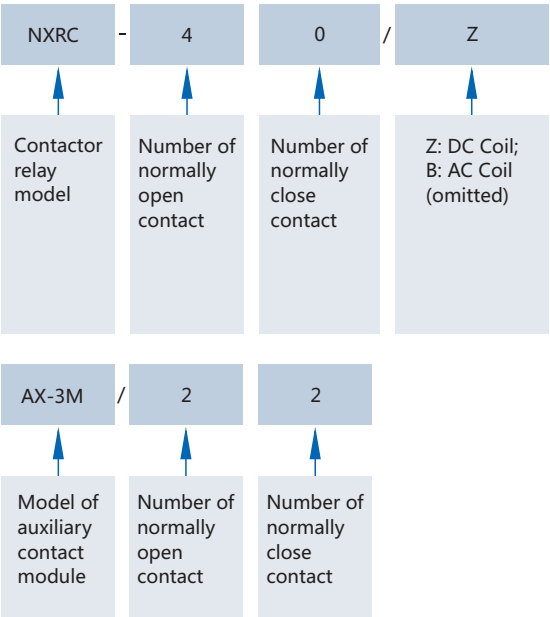


## Overview

### Applicable scope

- NXRC contactor relay is mainly used in AC 50Hz or 60Hz relay control circuit, signal transmission circuit and isolation amplifier circuit with a maximum rated operational voltage of 380V and a maximum DC rated voltage of 220V.
- Applicable standard: IEC/EN60947-5-1.

## Description



### NXRC contact combination form

Model	Number of normally open contact	Number of normally closed contact
NXRC-04, NXRC-04/Z	0	4
NXRC-13, NXRC-13/Z	1	3
NXRC-22, NXRC-22/Z	2	2
NXRC-31, NXRC-31/Z	3	1
NXRC-40, NXRC-40/Z	4	0

### Combination form of AX-3M auxiliary contact module

Model	Number of normally open contact	Number of normally closed contact
AX-3M/04	0	4
AX-3M/13	1	3
AX-3M/22	2	2
AX-3M/31	3	1
AX-3M/40	4	0
AX-3M/11	1	1
AX-3M/20	2	0
AX-3M/02	0	2

Model example:  
NXRC-40 220V 50Hz means the contactor relay of which the contact combination form is quadrupole normally open, coil control voltage is AC 220V, and frequency is 50Hz.

## Normal working conditions and installation conditions

- Surrounding ambient temperature:  $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$ ; the mean value does not exceed  $+35^{\circ}\text{C}$  within 24 hours.
- Sea level elevation: not exceed 2000m.
- Atmospheric conditions: The relative humidity shall not exceed 50% when the maximum temperature is  $+40^{\circ}\text{C}$ ; the relative humidity can be higher when the temperature is lower; for example, at  $20^{\circ}\text{C}$ , the relative humidity can be 90%. Special measures shall be taken if there is condensation caused accidentally owing to temperature changes.
- Class of pollution: class 3.
- Installation category: category III.
- Installation condition: angle of slope between the mounting surface and vertical plane is not bigger than  $\pm 5^{\circ}$ .
- Impact and vibration: The product shall be installed and used in the place without serious shaking, shock, and vibration.

## Parameters

### Main technical parameters

Rated insulation voltage (Ui)	Conventional free air thermal current (Ith)	Rated control capacity				Operating frequency (times/h)	Electrical endurance (10k times)	Mechanical endurance (10k times)
		Utilization category	Rated operational voltage	Rated operational current	Control capacity			
690V	10A	AC-15	380V	1.5A	570VA	1200	100	1000
		DC-13	220V	0.3A	66W			

### Rated control power supply voltage of coil (Us)

- AC: 24V, 36V, 48V, 110V, 127V, 220V, 380V, 415V
- DC: 24V, 48V, 110V, 220V
- Actuation range: Pull-in voltage (85%~120%)  $U_s$ ,  $+40^{\circ}\text{C}$
- Release voltage is AC: (20%~75%)  $U_s$ , DC: (10%~75%)  $U_s$  ( $-5^{\circ}\text{C}$ )

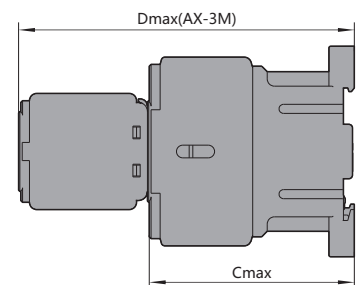
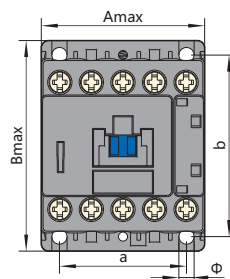
## Structural feature

- Derived from NXC-06M series, the overall dimension and installation dimension are the same as NXC-06M; AX-3M auxiliary contact can be hung from it.
- The product has a small size, and has AC and DC operating coils.

## Dimensions and installation

### NXRC

### Overall Dimension and Installation Dimension



Model	Amax	Bmax	Cmax	Dmax	a	b	Φ
NXRC-40, 31, 22, 13, 04	45.5	59	58	94	$35\pm 0.35$	$50\pm 0.48$	4.2
NXRC-40/Z, 31/Z, 22/Z, 13/Z, 04/Z	45.5	59	70	106	$35\pm 0.35$	$50\pm 0.48$	4.2

## Ordering instructions

- When an order is placed, please indicate the product name and model, rated operational voltage and frequency of the coil, and amount of order.
- Example of order: NXRC-40/Z contactor relay; coil voltage: DC 24V 10 sets.