

## NC9 Vacuum contactor

### 1. General

- 1.1 Electrical ratings: AC50Hz, up to 1,140V, up to 1,000A;
- 1.2 Application: remotely makes and breaks circuit, combined with thermal over-load relay or some protective devices to be vacuum starter;
- 1.3 Ambient temperature: -5°C + ~40°C;
- 1.4 Altitude: ≤2,000m;
- 1.5 Mounting category: III;
- 1.6 Mounting conditions: the inclination between mounting and vertical plane not exceed ±15° ;
- 1.7 Standard: IEC/EN 60947-4-1.



### 3. Technical Data

Model		NC9-160	NC9-250
Conventional heating current (A)		160	250
Max. Power of controlled three-phase cage motor (kW) AC-3	660V/690V	140	220
	1140V	230	380
Rated operational current Ie (A)	660V/690V	160	250
	1140V	160	250
Rated making current (A)	1140V	1,920	3,000
Rated breaking current (A)	1140V	1,600	2,500
Mechanical life	Operating cycles (operation/h)	1,200	1,200
	× 10 <sup>6</sup> Operations	3	3
Electrical life (AC-3)	Operating cycles (operation/h)	600	600
	× 10 <sup>3</sup> Operations	600	600
Electrical life (AC-4)	Operating cycles (operation/h)	300	300
	× 10 <sup>3</sup> Operations	60	30
Matched SCPD		RT16-400	RT16-400



### 3.3 Coil specifications

Model		NC9-160	NC9-250	NC9-400	NC9-630	NC9-800	NC9-1000
Power (W)	Pick-up	580	580	815	815	1,980	1,980
	Holding	20.7	20.7	22.9	22.9	105	105
Voltage Us 50Hz (V)		110, 220, 380					

## 4. Terminal Connection

Model	Cabling			Screw	Tightening torque (N · m)
	Number of piece	Cu cable (mm <sup>2</sup> )	Cu busbar (mm <sup>2</sup> )		
NC9-160	1	70	-	M10	10
NC9-250	1	120	-	M10	10
NC9-400	1	240	-	M10	10
NC9-630	2	185	40×5	M10	10
NC9-800	2	240	50×5	M10	10
NC9-1000	2	-	60×5	M10	10

## 5. Accessories

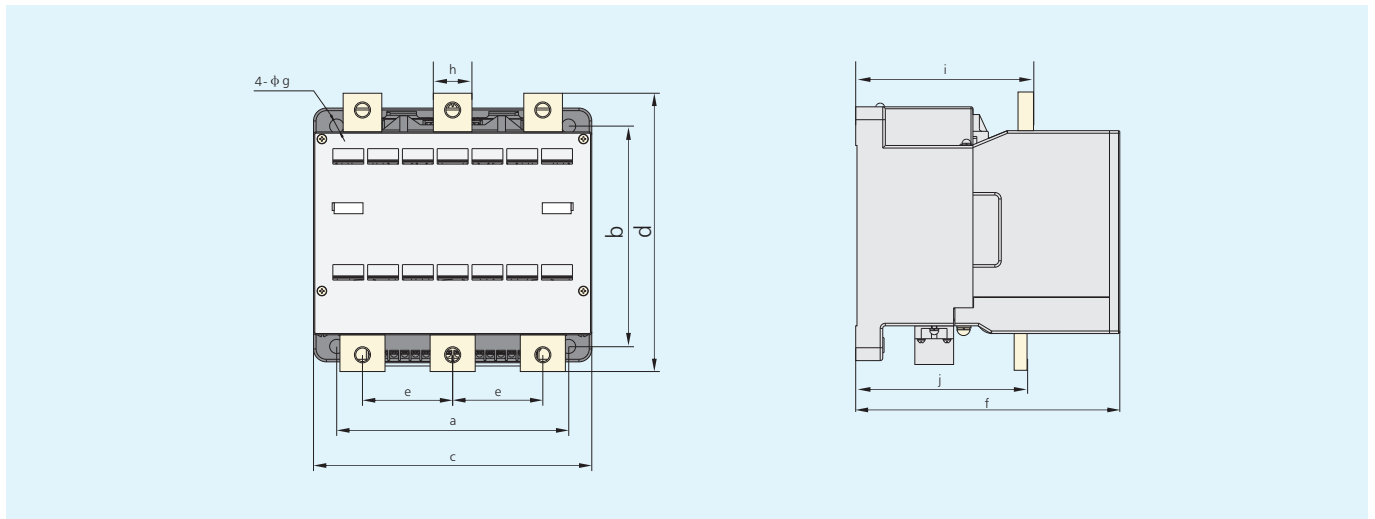
Model	NC9-160	NC9-250	NC9-400	NC9-630	NC9-800	NC9-1000
Number of auxiliary contact	2N/O+2N/C			4N/O+4N/C		
Auxiliary contact basic parameters (Ui=690V Ith=10A)	AC-15: 720VA DC -13: 69W					

Note: For products of NC9-160~NC9~250 auxiliary contact of 2N/O+1N/C is available for NC9-400~NC9-1000, 4N/O+3N/C is available.

## 6. Features

- 6.1 High breaking capacity;
- 6.2 No deration for the product;
- 6.3 Compact design;
- 6.4 Convenient mounting and wiring;
- 6.5 Long electrical life and maintenance period;
- 6.6 Novel appearance and compact structure;
- 6.7 Environmental protection and no noise during operation;

## 7. Overall and mounting dimensions (mm)



Model	Dimensions	a	b	c	d	e	f	g	h	i	j
NC9-160		120	160	152	192	49.5	182.5	11	24	133.5	128
NC9-250		120	160	152	192	49.5	182.5	11	24	133.5	128
NC9-400		180	171	216	216	70	205	11	35	138	133
NC9-630		180	171	216	216	70	205	11	35	138	133
NC9-800		240	252	282	324	92	276	11	40	200.5	187
NC9-1000		240	252	282	324	92	276	11	40	200.5	187