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℃～+40℃;
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

2. Type Designation

N C 9 - □ / □ K

- K: Blank: application under normal conditions (K: application under mines)
- □: 1: 1P blank: 3P
- □: Rated operational current
- 9: Design sequence No.
- C: Vacuum contactor
- N: Company code

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
	$\times 10^6$ Operations	3	3
Electrical life (AC-3)	Operating cycles (operation/h)	600	600
	$\times 10^3$ Operations	600	600
Electrical life (AC-4)	Operating cycles (operation/h)	300	300
	$\times 10^3$ Operations	60	30
Matched SCPD		RT16-400	RT16-400

3.1 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^2)	Cu busbar (mm^2)		
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					

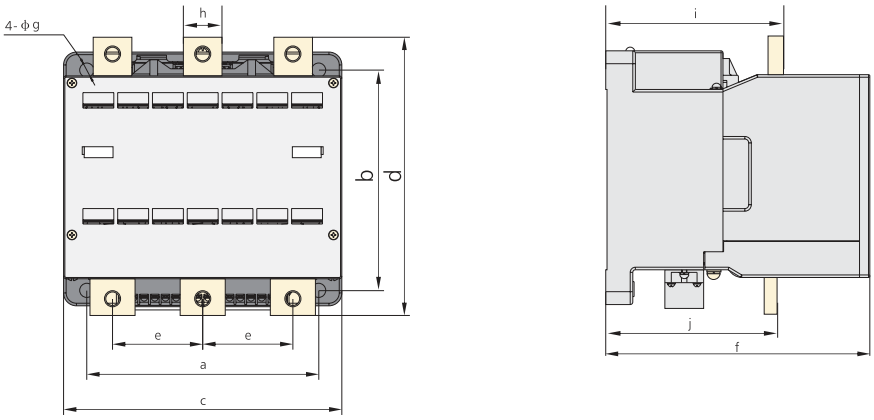
Note: For products of NC9-160~NC9-250 auxiliary contact of 2N/O+1N/C is available for NC9-400~NC9-1000, 4N/O+3N/C is available.

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.

NC9-400	NC9-630	NC9-800	NC9-1000
400	630	800	1,000
350	540	685	850
590	930	1,180	1,480
400	630	800	1,000
400	630	800	1,000
4,800	7,560	9,600	12,000
4,000	6,300	8,000	10,000
1,200	1,200	1,200	1,200
3	3	2	2
600	120	120	120
600	600	600	600
300	120	120	120
20	6	6	6
RT16-630	RT16-630	RT16-800	RT16-1000

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