



NC1 Contactor, 9~95A

1. General

- 1.1 Certificates: CE, KEMA, VDE, EK, ESC, UKrSEPRO, GOST, RCC, UL;
- 1.2 Electric ratings: AC50/60Hz, 690V, up to 95A;
- 1.3 Application: remote making & breaking circuits; protect circuit from over-load when assembling with thermal over-load relay; Frequent start-up and control of AC contactor;
- 1.4 Utilization category: AC-3, AC-4;
- 1.5 Altitude: ≤2000m;
- 1.6 Ambient temperature: -5℃~+40℃;
- 1.7 Mounting category: III
- 1.8 Mounting conditions:
 inclination between the mounting plane and the vertical plane should not exceed ±5°
- 1.9 Standard: IEC/EN 60947-4-1



2. Type designation

NC 1-□□ □□ - □

Z: DC coil Blank: AC coil

Number of contacts

- 10: 3 N/O main contacts+1 N/O auxiliary contact (9A,12A,18A,25A,32A)
- 01: 3 N/O main contacts+1 N/C auxiliary contact (9A,12A,18A,25A,32A)
- 11: 3 N/O main contacts+1 N/O and 1N/C auxiliary contact (40A,50A,65A,80A,95A)
- 04: 4 N/O main contacts (9A,12A,25A,40A,50A,65A,80A,95A)
- 08: 2 N/O and 2N/C main contacts (9A,12A,25A,40A,50A,65A,80A,95A)

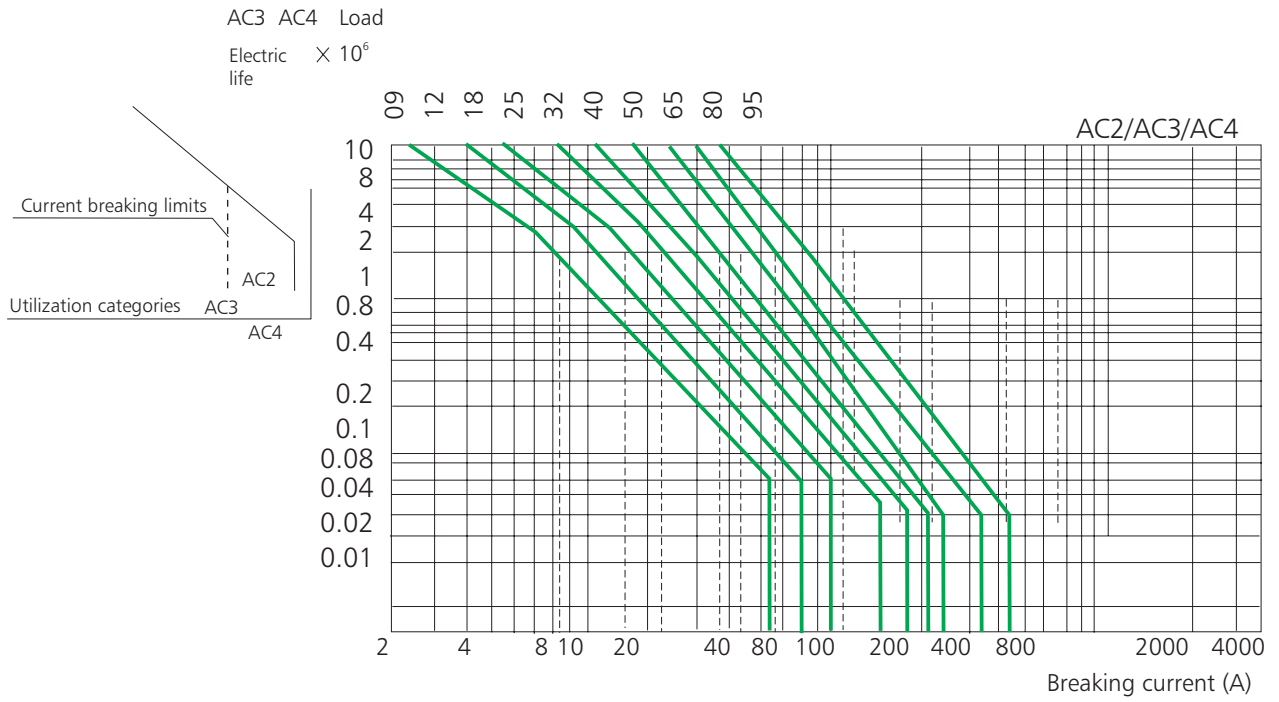
Basic specification, expressed with the rated operational current (380V/400V, AC-3)

Design sequence No.

Contactor

Company code

3. Curves






Utilization Category	09	12	18	25	32	40	50	65	80	95
220/230V	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15
380/400V	1.1	1.5	2.2	3	4	5.5	7.5	11	15	22
440V	1.1	1.5	2.2	3	4	5.5	7.5	11	15	22






4. Technical data

4.1 AC coil contactor

★ AC coil operation




Items		Model	NC1-09	NC1-12	NC1-18	NC1-25
			Frame 1 (3P, 4P)		Frame 2 (3P)	Frame 3 (3P, 4P)
						
Rated conventional heating current (A) AC-1			20	20	32	40
Rated operational current (A)	380/400V	AC-3	9	12	18	25
		AC-4	3.5	5	7.7	8.5
	660/690V	AC-3	6.6	8.9	12	18
		AC-4	1.5	2	3.8	4.4
Rated insulation voltage (V AC)			690	690	690	690
Power of controlled 3-phase cage motor (AC-3)	kW	220/230V AC	2.2	3	4	5.5
		380/400V AC	4	5.5	7.5	11
		660/690V AC	5.5	7.5	10	15
	hp	200V AC	3	5	7.5	7.5
		240V AC	3	5	7.5	10
		460V AC	5	7.5	10	15
600V AC		5	7.5	10	15	
Operating frequency (operations/h)	Electrical	AC-3	1,200	1,200	1,200	1,200
		AC-4	300	300	300	300
	Mechanical		3,600	3,600	3,600	3,600
Electrical life ($\times 10^3$ operations)	AC-3		1,000	1,000	1,000	1,000
	AC-4		200	200	200	200
Mechanical life ($\times 10^6$ operations)			10	10	10	10
Matched fuse type			RT16-20	RT16-20	RT16-32	RT16-40




	NC1-32	NC1-40	NC1-50	NC1-65	NC1-80	NC1-95
	Frame 4 (3P)	Frame 5 (3P, 4P)			Frame 6 (3P, 4P)	
						
	50	60	80	80	95	95
	32	40	50	65	80	95
	12	18.5	24	28	37	44
	21	34	39	42	49	49
	7.5	9	12	14	17.3	21.3
	690	690	690	690	690	690
	7.5	11	15	18.5	22	25
	15	18.5	22	30	37	45
	18.5	30	37	37	45	45
	10	15	15	20	25	30
	15	20	20	25	30	30
	20	25	30	40	40	50
	20	25	30	40	40	50
	600	600	600	600	600	600
	300	300	300	300	300	300
	3,600	3,600	3,600	3,600	3,600	3,600
	800	800	600	600	600	600
	200	150	150	150	100	100
	8	8	8	8	6	6
	RT16-50	RT16-63	RT16-80	RT16-80	RT16-100	RT16-125



4.2 DC coil contactor

★ DC coil operation(24V,110V,220V)

Items		Model	NC1-09Z	NC1-12Z	NC1-18Z	NC1-25Z
			Frame 1 (3P, 4P)		Frame 2 (3P)	Frame 3 (3P, 4P)
						
Rated conventional heating current (A) AC-1			20	20	32	40
Rated operational current (A)	380/400V	AC-3	9	12	18	25
		AC-4	3.5	5	7.7	8.5
	660/690V	AC-3	6.6	8.9	12	18
		AC-4	1.5	2	3.8	4.4
Conventional heating current (A)			20	20	32	40
Rated insulation voltage (V AC)			690	690	690	690
Power of controlled 3-phase cage motor (AC-3)	kW	220/230V AC	2.2	3	4	5.5
		380/400V AC	4	5.5	7.5	11
		660/690V AC	5.5	7.5	10	15
Operating frequency (operations/h)	Electrical	AC-3	1,200	1,200	1,200	1,200
		AC-4	300	300	300	300
	Mechanical			3,600	3,600	3,600
Electrical life (× 10 ³ operations)	AC-3		1,000	1,000	1,000	1,000
	AC-4		200	200	200	200
Mechanical life (× 10 ⁶ operations)			10	10	10	10
Matched fuse type			RT16-20	RT16-20	RT16-32	RT16-40

	NC1-32Z Frame 4 (3P)	NC1-40Z	NC1-50Z	NC1-65Z	NC1-80Z	NC1-95Z
		Frame 5 (3P, 4P)			Frame 6 (3P, 4P)	
						
	50	60	80	80	95	95
	32	40	50	65	80	95
	12	18.5	24	28	37	44
	21	34	39	42	49	49
	7.5	9	12	14	17.3	21.3
	50	60	80	80	95	95
	690	690	690	690	690	690
	7.5	11	15	18.5	22	25
	15	18.5	22	30	37	45
	18.5	30	37	37	45	45
	600	600	600	600	600	600
	300	300	300	300	300	300
	3,600	3,600	3,600	3,600	3,600	3,600
	800	800	600	600	600	600
	200	150	150	150	100	100
	8	8	6	6	6	6
	RT16-50	RT16-63	RT16-80	RT16-80	RT16-100	RT16-125

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