



NC1 series AC contactor

Motor control and protection

NC1 series AC contactor (hereinafter referred to as contactor), mainly used for AC 50Hz (or 60Hz), rated working voltage to 690V, in the AC-3, 400 (380) V class under the rated working current to 95A, It can be used to connect and disconnect circuits at a long distance, and can form an electromagnetic starter with an appropriate thermal overload relay to protect the circuit from which an operational overload may occur. The contactor is suitable for frequently starting and controlling the AC motor.

NC1-N AC contactor (reversible type) is mainly used for AC 50Hz (or 60Hz), rated working voltage to 690V, rated working current to 95A, for motor reversible control. Its mechanical interlock mechanism ensures the reliability of the conversion of the two reversible contactor contacts.

In order to meet the needs of some special occasions, the NC1 series AC contactor is designed with an AC contactor with a DC operating system.

Compliance with standards: IEC/EN 60947-4-1, GB/T 14048.4.

AC contactor

Specification

4 主要参数及技术性能

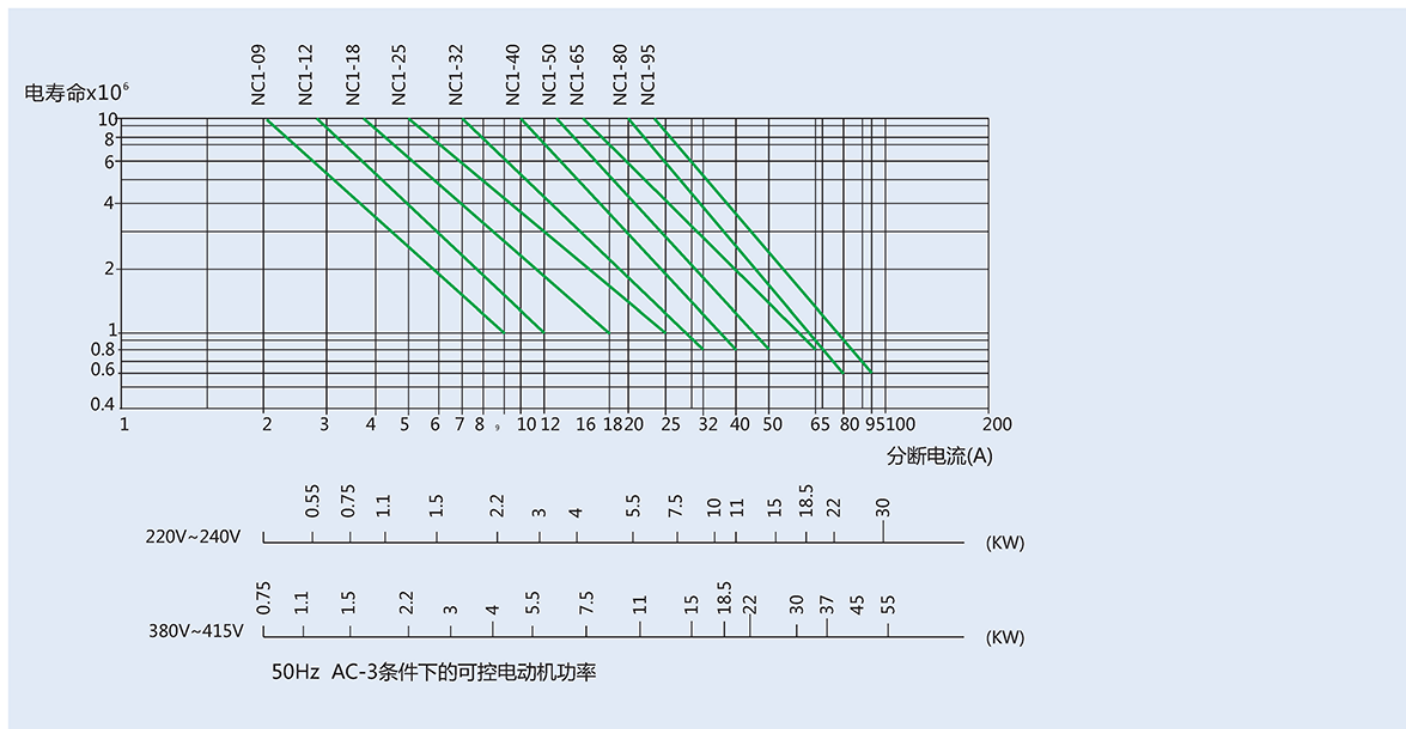
4.1 NC1接触器的主要参数及技术性能指标(见表1)。

表1

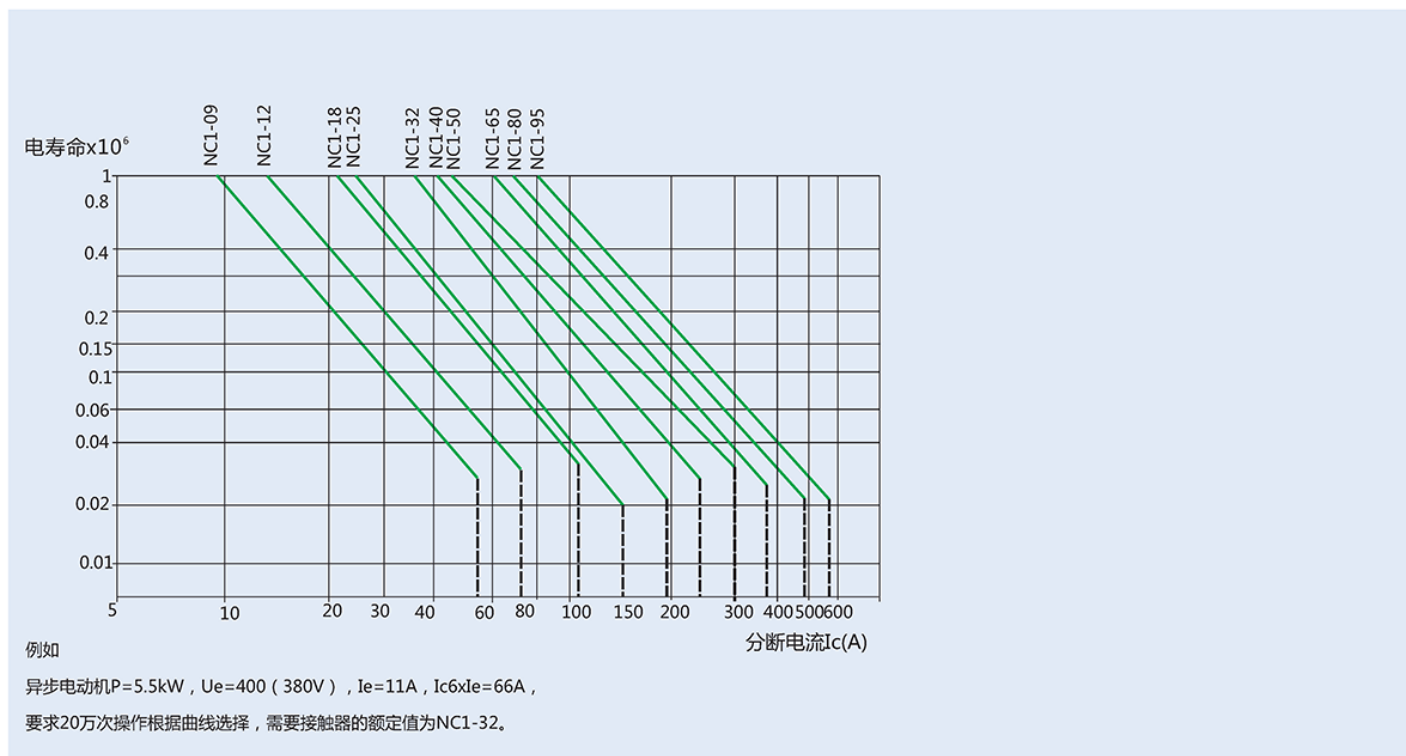
型号	NC1-09(Z)	NC1-12(Z)	NC1-18(Z)	NC1-25(Z)	NC1-32(Z)	NC1-40(Z)	NC1-50(Z)	NC1-65(Z)	NC1-80(Z)	NC1-95(Z)			
额定工作电流(A)	AC-3 9 AC-4 3.5	12	18	25	32	40	50	65	80	95			
额定自由空气发热电流(A)	AC-3 6.6 AC-4 1.5	8.9	12	18	21	34	39	42	49	49			
约定自由空气发热电流(A)	20	20	32	40	50	60	80	80	95	110			
额定绝缘电压(V)	690	690	690	690	690	690	690	690	690	690			
可控三相鼠笼电动机功率(AC-3)kW	220/230V 2.2 380/400V 4 660/690V 5.5	3 5.5 7.5	4 7.5 10	5.5 11 15	7.5 15 18.5	11 18.5 30	15 22 37	18.5 30 37	22 37 45	25 45 45			
断续周期工作制下电动机功率(AC-4)kW	380/400V 1.5 660/690V 1.1	2.2 1.5	3 3.7	4 4	5.5 5.5	7.5 7.5	11 11	15 11	18.5 15	22 18.5			
电寿命(万次)	AC-3 100 AC-4 20	100	100	100	80	80	60	60	60	60			
机械寿命(万次)	1000	1000	1000	1000	800	800	800	800	600	600			
配用熔断器型号	RT16-20	RT16-20	RT16-32	RT16-40	RT16-50	RT16-63	RT16-80	RT16-80	RT16-100	RT16-125			
冷压端头	非预制端头软线 根 有预制端头软线 mm ² 非预制端头硬线	1 2 1/2.5 1/2.5 1/4 1/2.5 1/4 1/4	1 2 1/2.5 1/2.5 1/4 1/2.5 1/4 1/4	1 2 1.5/4 1.5/4 1.5/6 1.5/6 1.5/6 1.5/6	1 2 1.5/4 1.5/4 1.5/10 1.5/6 1.5/6 1.5/6	1 2 1.5/4 1.5/4 2.5/10 2.5/6 2.5/10 2.5/10	1 2 1.5/4 1.5/4 2.5/6 2.5/6 2.5/10 2.5/10	1 2 1.5/4 1.5/4 6/25 4/10 6/25 4/10	1 2 1.5/4 1.5/4 6/25 4/10 6/25 4/10	1 2 1.5/4 1.5/4 6/25 4/10 6/25 4/10	1 2 1.5/4 1.5/4 10/35 6/16 10/35 6/16	1 2 1.5/4 1.5/4 10/35 6/16 10/35 6/16	1 2 1.5/4 1.5/4 10/35 6/16 10/35 6/16
接线端子螺钉大小	M3.5	M3.5	M3.5	M4 M4	M4 M4	M8	M8	M8	M10	M10			
及拧紧力矩(N·m)	0.8	0.8	0.8	1.2	1.2	4	4	4	10	10			
交流线圈	50Hz												
吸合(VA)	70	70	70	110	110	300	300	300	300	300			
保持(VA)	9.0	9.0	9.5	14.0	14.0	57.0	57.0	57.0	57.0	57.0			
功率(W)	1.8~2.7	1.8~2.7	3~4	3~4	3~4	6~10	6~10	6~10	6~10	6~10			
直流线圈功率	功率(W) 9	9	11	11	11	20	20	20	20	20			
动作范围	吸合电压为：85%Us~110%Us；释放电压为：20%Us~75%Us(直流为10%Us~75%Us)												
辅助触头基本参数	AC-15: Ie:0.95A; Ue:380/400V DC-13: Ie:0.15A; Ue:220/250V; Ith: 10A												

4.2 电寿命曲线

AC-3使用类别下电寿命曲线



AC-4使用类别下电寿命曲线



4.3 线圈额定控制电源电压Us及代号(见表2)。

表2

线圈电压Us(V)	24	36	42	48	110	127	220	230	240	380	400	415	440	480	500	600	660
50Hz	B5	C5	D5	E5	F5	G5	M5	P5	U5	Q5	V5	N5	R5	T5	S5	X5	Y5
60Hz	B6	C6	D6	E6	F6	G6	M6	P6	U6	Q6	V6	N6	R6	T6	S6	X6	Y6
50/60Hz	B7	C7	D7	E7	F7	G7	M7	P7	U7	Q7	V7	N7	R7	T7	S7	X7	Y7

4.4 直流线圈额定控制电源电压Us见表3。

表3

线圈电压Us(V)	24	36	48	60	72	110	125	220
代号	BD	CD	ED	ND	SD	FD	GD	MD

Product Show